



SpiraTest[®], SpiraPlan[®], SpiraTeam[®] User Manual Version 3.2.0

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1. Introduction

SpiraTeam® is an integrated Application Lifecycle Management (ALM) system that manages your project's requirements, releases, test cases, issues and tasks in one unified environment:

SpiraTeam® contains all of the features provided by SpiraTest® - our highly acclaimed quality assurance system and SpiraPlan® - our agile-enabled project management solution. With integrated customizable dashboards of key project information, SpiraTeam® allows you to take control of your entire project lifecycle and synchronize the hitherto separate worlds of development and testing.

This user manual outlines the features and functionality available in SpiraTeam®, and demonstrates how to use the application for managing the quality assurance and project management processes on a typical project.

1.1. Quality Assurance

Quality Assurance is a key component of the Software Development Life-Cycle (SDLC), which needs to be integrated into the planning and management of a program or project from its inception. Too often though, QA is implemented as *Quality Control* - whereby testing that the required functionality works as expected, is performed at the end, when it is most costly to make corrections and changes.

To manage QA across a project from day one, it is imperative that the original requirements are documented together with the use-cases that validate the desired functionality. These use-cases then form the basis of the test scripts that can be executed to validate that the functionality has been correctly built, and that the requirements have been satisfied. During the execution of these test scripts, failures may occur, which are recorded as *incidents* - either to be fixed or documented depending on the severity.

Typically, these activities require people to use at least three different types of software:

- Requirements Management
- Test Script Management
- Defect / Issue / Bug Tracking

However, this stove-piped approach has many limitations and drawbacks, most importantly the fact that there is no *traceability* between the different artifacts. How can the project manager know that all the requirements have been tested? Conversely, how can the developer know which test script was responsible for a recorded bug – needed to accurately reproduce the issue?

1.2. Project Management

As described in the Agile Manifesto, traditional waterfall software methodologies and lifecycles have failed to delivery projects on-time and onbudget. In addition, many systems built this way will fail to provide the expected business value as there is no ability to quickly refine the requirements as the project progresses.

Consequently software development has been transformed with these new ideas and concepts, with new methodologies such as Extreme Programming (XP), Scrum, Kanban, DSDM and AUP becoming common. However the traditional tools of project management - requirements specifications, high level project plans, GANTT charts, white-board schedules and top-down task management - are too cumbersome and not well suited.

SpiraTeam® provides a complete Agile Project Management System in one package, that can manages your project's requirements, releases, iterations, tasks and issues in one environment, fully synchronized.

2. Functionality Overview

This section outlines the functionality provided by SpiraTeam® in the areas of requirements management, test case management, release planning, iteration planning, incident tracking, task management and project / user management.

2.1. Requirements Management

SpiraTeam® provides the ability to create, edit and delete project scope / requirements in a hierarchical organization that resembles a typical scope matrix. Each requirement is associated with a particular importance level (ranging from critical to low) and a status identifier that designates where the requirement is in the development lifecycle (requested, planned, in-progress and completed). In addition, each requirement is mapped to one or more test cases that can be used to validate that the functionality works as expected. This mapping is called the "Requirement Test Coverage", since the test cases "cover" the requirement so that if all the tests can be executed successfully, then the requirement is validated.

At the same time, from a development perspective, the team begins initial estimation of the lowest-level requirements in the requirements matrix to determine the complexity and associated resourcing. Once the high-level release schedule has been determined, the requirements can then be prioritized and scheduled against the appropriate release according to their business priority.

Once the release is underway, the requirements are further decomposed into their constituent low-level project tasks that can be assigned to the project team. The system will track the progress and revised estimates for the tasks and display them against the requirements so that risks to the schedule can be quickly determined.

2.2. Test Case Management

SpiraTeam® provides the ability to create, edit and delete project test cases that are stored in a hierarchical folder structure that resembles Windows Explorer ®. Each test case consists of a set of test steps that represent the individual actions a user must take to complete the test. These test steps also contain a description of the expected result and any sample data elements that the tester should use when performing the action. When a user executes a test case, the results are stored in a test run that contains the success/failure status of each test step as well as the actual observed result that the tester experienced.

In addition each test case is mapped to one or more requirements that the test is effectively validating, providing the test coverage for the requirement. During the execution of the test case, each failure can be optionally used to record a new incident, which can then be managed in the incident tracking module (see below). This provides complete traceability from a recorded incident to the underlying requirement that was not satisfied.

To streamline the assignment and tracking of multiple test cases, SpiraTeam® allows users to select groups of test cases and arrange them into *test sets*. Each test set can contain test cases from a variety of different folders and can be associated with a specific release of the system being tested.

2.2.1. Test Automation

As well as being able to store and manage manual test cases, SpiraTeam® can be used to manage the scheduling and execution of automated test scripts for a variety of third-party test automation engines. This allows you to centrally plan your automated testing and monitor the results of automated unit, functional and load testing remotely. For example, you could schedule a set of automated functional tests to run on five different machines (each with a different browser/OS combination) at 2:00 AM and have the results be ready for the next morning.

2.3. Release Planning

SpiraTeam® provides the ability to track different versions / releases of the application being tested. Each project in the system can be decomposed into an unlimited number of specific project releases, denoted by name and version number. Requirements and Test Cases developed during the design phase can then be assigned to these different releases. When a tester executes a series of test cases, they are able to choose the version of the project being tested and the resulting test run information is then associated with that release.

From a project planning perspective, the releases are the major milestones in the project, which are further sub-divided into iterations which are separate mini-projects with associated project scope and tasks. The project's requirements are scheduled at a high-level against the releases and the detailed tasks are scheduled against specific iteration within the release.

In addition, all incidents raised during the testing process are associated with this release, allowing the development team to easily determine which version of the project is affected. Finally as the incidents are resolved and verified during the testing phase, the appropriate release can be selected to indicate which release the incident was resolved and/or verified in.

2.4. Iteration Planning

As described in section 2.3, in addition to high-level project releases, SpiraTeam® can also track the individual iterations that comprise a release, giving the project manager the option to manage agile methodology projects within the SpiraTeam® environment. Unlike the release planning stage, where high-level requirements are estimated and scheduled, the iteration planning phase involves assigning each of the requirements, incidents and tasks in the project backlog against a specific iteration until the available effort in the iteration has been completely allocated.

When you first create iterations, you specify the start and end-dates together with the notional number of project resources assigned to the iteration and any non-working days. SpiraTeam® uses this information to calculate the planned effort available to the iteration, from which it will subtract the estimated task and incident effort values to determine how much effort is available to schedule.

2.5. Incident Tracking

SpiraTeam® provides the ability to create, edit, assign, track, manage and close incidents that are raised during the testing of the software system under development. These incidents can be categorized into bugs, enhancements, issues, training items, limitations, change requests, and risks, and each type has its own specific workflow and business rules. Typically each incident is raised initially as a 'New' item of type 'Incident'. Following the review by the project manager and customer, they are changed to one of the other specific types, given a priority (critical, high, medium or low), and status changed to 'Open'. Once it is assigned to a developer for fixing, it is changed to status 'Assigned'.

The developer now works to correct the incident, after which time its status changes to 'Fixed' or 'Not Reproducible' depending on the actions taken (or not taken). Finally the project manager and customer verify that it has indeed been fixed, and the status is changed to 'Closed'. SpiraTeam® provides robust sorting and filtering of all the incidents in the system, as well as the ability to view the incidents associated with particular test cases and test runs, enabling drill-down from the requirements coverage display, right through to the open incidents that are affecting the requirement in question.

2.6. Task Management

As described above, in addition to storing the requirements for a project, SpiraTeam® includes the capability of drilling each lowest-level requirement down further into a series of work items called 'Tasks'. These tasks are the discrete activities that each member of the development team would need to carry

out for the requirement to be fulfilled. Each task can be assigned to an individual user as well as associated with a particular release or iteration. The system can then be used by the project manager to track the completion of the different tasks to determine if the project is on schedule.

2.7. Projects and Users

SpiraTeam® supports the management of an unlimited number of users and projects, which can be administered through the same web interface as the rest of the application. All artifacts (requirements, tests and incidents) are associated with a particular project, and each user of the system can be given a specific role for the particular project. So, a power user of one software project may be merely an observer of another. That way, a central set of users can be managed across the enterprise, whilst devolving project-level administration to the manager of the project. In addition to these administration functions, each user profile and project has its own personalized dashboard view of all the pertinent and relevant information. This feature reduces the information overload associated with managing such a rich source of project information, and allows a single user or project snapshot to be viewable at all times for rapid decision-making.

2.8. Document Management

SpiraTeam® includes an integrated document management collaboration system that can be used to upload, manage and share documents between the different members of the project. This module includes support for uploading files and URLs, versioning of documents, the ability to organize into folders and categorize and search using meta-tags.

2.9. Source Code Tracking

SpiraPlan® and SpiraTeam® provide the ability to browse your source code repository from within the main web application. This is an excellent way for managers and casual users of the project to browse the files and revisions of the software code without needing to install the version control software on their own workstations. In addition for all users, the ability to link source code revisions with SpiraTeam® artifacts provides traceability from requirements, incidents and tasks to the code changes that were made to implement the required feature or fix the identified defect. Should a defect resurface later, you can view the associated source code revisions to determine which changes were made and did they truly correct the defect.

2.10. Build Management

SpiraTeam® includes the ability to integrate with a variety of continuous integration / automated build servers so that the results of automated builds can be displayed in SpiraTeam linked to the associated release or iteration. In addition, the results of automated tests and source code operations can be linked to the build events, providing traceability from a specific build to the bugs that were fixed, tests that were run and source code files that were modified.

2.11. Miscellaneous

2.11.1. Artifact Relationships

The sections above have outlined the different features and functions available in the system, and have described the various artifacts managed in the system (e.g. projects, users, requirements, tests, etc.). To aid in understanding how the information is related, the following diagrams illustrates the relationships between the different artifacts and entities:

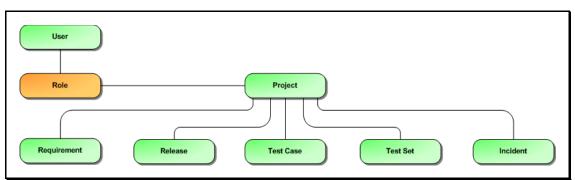


Figure 1: The main entities that comprise a SpiraTest project.

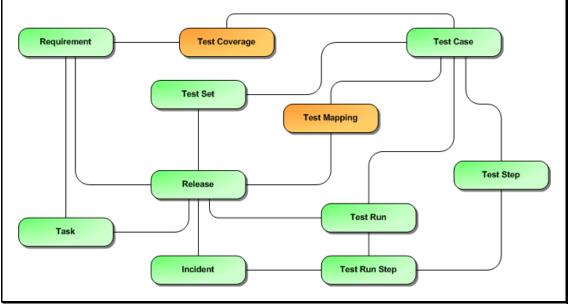


Figure 2: The relationships between the various SpiraTest entities

With these overall concepts in mind, the rest of this help manual will outline the functionality in each of the SpiraTeam® screens, and provide specific information on how to manage each of the artifacts illustrated above. Note that this manual does not explain the Administration-level functionality of the system; for that, please refer to the *SpiraTeam® Administration Guide*.

2.11.2. Artifact Naming Conventions

On various screens in the system, you will see lists of artifacts (requirements, test cases, etc.) together with a unique identification number. In order to make it easier to recognize at a glance which type of artifact the identification number refers to, SpiraTeam® uses a system of two-letter prefixes which help identify the type of artifact being displayed. The current prefixes used by the system are:

Artifact	Prefix	Artifact	Prefix
Project	PR	Project Group	PG
User	US	Incident Type	IT
Requirement	RQ	Incident Priority	IP
Release	RL	Incident Severity	IV
Test Case	TC	Workflow	WK
Test Step	TS	Workflow Transition	WT
Test Run	TR	Custom Property Values	PV
Test Run Step	RS	Project Role	RX

Incident	IN	Task	ТК
Incident Status	IS	Test Set	ТХ
Custom List	CL	Document	DC
Document Type	DT	Document Folder	DF
Automation Host	AH	Build	BL

In addition, certain artifacts in the system are displayed with an icon that helps distinguish them from each other, and provides additional context on the state of the artifact:

lcon	Artifact Description
ļ	Summary Requirement
	Detailed Requirement
	Test Folder
5	Test Case with Test Steps
5	Test Case without Test Steps
	Test Set
	Test Run
88.	Test Step
¢.	Linked Test Case
Ē	Release
	Iteration / Sprint
*	Task
×	Incident
	Source Code Revision
&	Project Resource
	Test Automation Host
	Build
0	Artifact has an Attachment

3. User/Project Management

This section outlines how you can log into SpiraTeam®, view your personalized home-page that lists the key tasks that you need to focus on, and drill-down into each of your assigned projects in a single dashboard view. In addition to your personal homepage, each of your projects has its own dashboard that depicts the overall project health and status in a single comprehensive view.

3.1. Login Screen

Upon entering the SpiraTeam® URL provided by your system administrator into your browser, you will see the following login screen:



You need to enter your given *user-name* and *password* into the system in the appropriate boxes then click the <Log In> button to gain access to the application. Normally you only remain logged in to the application whilst in active use, and you will be asked to log-in again after either closing the browser or 20 minutes of inactivity. To prevent this, and stay logged-in to SpiraTeam® regardless of browser window closing or inactivity, select the "Keep me logged in" check-box before clicking the <Log In> button. Note that this setting is specific to each individual computer you are logging-in from, and that it will be reset when you explicitly log-out with the log-out link (described in more detail in section 3.3).

If for any reason you are unable to login with the provided username/password combination, and error message will be displayed. If you cannot remember the correct log-in information, click on the "Forgot user name / password" link and your password will be emailed to the email address currently on file.

If you don't have a SpiraTeam® account setup, clicking on the "Don't have an account?" link will take you to a form that you need to fill-in, which will be forwarded to the system administrator, who will actually create your account.

In addition, the system will prevent you logging on to the system with the same username *at the same time* on multiple computers. This is to avoid the system getting confused by a user trying to make contradictory actions at the same time. If for any reason you do try and log in to the system when you already have an active session in progress, you will see the following screen:



You have two choices: you can either click the "Log Out" link and try logging in as a different user, or if you want to log-off any other active sessions (e.g. you closed the browser and the session is still listed as active), simply click the "Sign Off The Other Locations" link, and you will be logged in to the application.

Since SpiraTeam® is licensed to organizations for a specific number of concurrent users – unless they have purchased an unlimited Enterprise license – only a fixed number of users may be active at the same time. So, for example if an organization has a five (5) concurrent user license and a sixth user tries to log-in, they will be presented with the following screen:



This means that one of the other users who is already logged-in, needs to click the "Log Out" button so that one of the concurrent licenses is freed for your use. If the user has logged out by closing the browser, the system may not have detected the logout. In this case, the other user needs to log back in, and then click the "Log Out" link.

3.2. My Page

Once you have successfully logged in, you will initially be taken to your personalized home page called "My Page":

spiraTeam	Welcome, Fred Bloggs	brary Information	System 🔻	My Profile Administration Log Out Search				Help?
spiralean	My Page Proje	ct Home	Planning	Testing Tracking Reportin	9			
My Page <u>My Timecard</u>								Role: Manage
Velcome Fred Bloggs to Your Dashboard (M	Iodify Layout/Settings A	dd Items)		Display data for: All Projects Current 	nt Project			
My Projects				Quick Launch				
Project Name	Group	Creation	Date	> Create Incident in: Ubrary Information System	n 🔻 🏵			
Library Information System	Internal Projects	1-Dec-20	005					
Sample Application One	Internal Projects	1-Dec-20	05	My Assigned Incidents 🔯				
Sample Application Two	External Projects	1-Dec-20	05	Name	Project	Туре	Priority	Date Opened
				Ability to associate multiple authors	Library Information	Enhancement	1 - Critical	17-Nov-2003
My Saved Searches				Test System Limitation	Library Information	Limitation	1 - Critical	4-Dec-2003
Name	Project			Test Training Item	Library Information	Training	1 - Critical	3-Dec-2003
Critical Not-Covered Requirements	Library Information Sy	stem >	Delete 🔊	Editing the date on a book is clunky	Library Information	Bug	2 - High	4-Nov-2003
Failed Active Test Cases	Library Information Sy		Delete 🔊	Test Training Item	Library Information	Training	2 - High	3-Dec-2003
New Unassigned Incidents	Library Information Sy		Delete 🔊	Test Change Request	Library Information	Change Request	3 - Medium	7-Dec-2003
All Reopened Incidents	Library Information Sy		Delete 🔊	Ability to import data from excel	Library Information	Enhancement	3 - Medium	25-Nov-2003
High Priority Late Tasks	Library Information Sy		Delete 🔊	Test System Limitation	Library Information	Limitation	3 - Medium	4-Dec-2003
Not Executed Test Sets	Library Information Sy	stem >	Delete 🔊	Sample Risk 3	Library Information	Risk	4 - Low	10-Dec-2003
My Assigned Requirements 🔯				My Detected Incidents 🖾				
Name	Project	Importance	Status	Name	Project	Туре	Priority	Date Openeo
Ability to create different editions	Library Information	1 - Critical	In Progress	Cannot log into the application	Library Information	Incident		1-Nov-2003
Ability to link authors to their contact	Library Information	2 - High	Requested	Clicking on link throws fatal error	Library Information	Incident		1-Nov-2003
Ability to edit existing authors in the	Library Information	2 - High	Planned	Cannot install system on Windows ME	Library Information	Issue		1-Dec-2003
Ability to delete existing authors in th	Library Information	2 - High	In Progress	Cannot install system on Oracle 9i	Library Information	Bug	1 - Critical	2-Nov-2003
Ability to create new users in the syste	Library Information	3 - Medium	Requested	Ability to associate multiple authors	Library Information	Enhancement	1 - Critical	17-Nov-2003
Ability to import from legacy system x	Library Information	4 - Low	Requested	Cannot log into the application	Sample Application O.	Incident	1 - Critical	10-Dec-2003
				Test System Limitation	Library Information	Limitation	1 - Critical	4-Dec-2003
My Assigned Test Cases 🖾				Sample Risk 1	Library Information	Risk	1 - Critical	10-Dec-2003
Name Proje	ect S	tatus Last	Executed	Test Training Item	Library Information	Training	1 - Critical	3-Dec-2003
			c-2003	Test Change Request	Library Information	Change Request	2 - High	6-Dec-2003
> Execute								
Ability to edit existing book Libra > Execute	ry Information C	aution 1-Dec	c-2003	My Assigned Tasks 🔯				
				Name	Project	Progress	Priority	Due Date
My Assigned Test Sets 🔕				Develop new edition entry scre	Library Information		1 - Critical	12-Mar-2004
Name	Project	Due Date	Status	Create edition object insert m	Library Information		1 - Critical	12-Mar-2004
Regression Testing for Windows XP (4)	Library Information	- n/a -	Completed	Write edition object insert qu	Library Information		1 - Critical	12-Mar-2004
Execute	clorary mormation	- 1#a -	Completed	Refactor author screen to incl	Library Information		2 - High	10-Mar-2004
Exploratory Testing (2)	Library Information	- n/a -	Deferred	Create author object delete me	Library Information		2 - High	10-Mar-2004
> Execute				Write author object delete que	Library Information		2 - High	10-Mar-2004
Testing New Functionality (4) > Execute	Library Information	10-Feb-2007	In Progress	Develop edit subject details s	Library Information		3 - Medium	27-Oct-2004
- Fundale				Create subject object update m	Library Information		3 - Medium	27-Oct-2004
				2012				27.0
My Pending Test Runs				Write subject object update qu	Library Information		3 - Medium	27-Oct-2004

Note that once you have successfully logged-in and chosen a project, SpiraTeam® remembers this selection, and on subsequent log-ins will automatically select that project, and highlight it for you in the "My Projects" list (see 3.2.1 below).

Your homepage contains all the information relevant to you consolidated onto a single page for you to take immediate action. By default the page lists the information for all projects that you are a member of. However, you can choose to filter by the current project, to get a more focused list.

Next to some of the widgets is an RSS icon (), this allows you to subscribe to the information as a Really Simple Syndication (RSS) newsfeed. This can be useful if you want to be able to be notified about recently assigned items without having to setup email notifications or being logged into SpiraTeam continuously. If you don't see an RSS icon next to the widgets on your My Page it means that you have not enabled RSS newsfeeds in your profile. For more details on configuring your RSS preferences, please refer to section 3.6 (My Profile).

Initially the page is loaded in 'view mode' which means that the various 'widgets' on the page are displayed with minimum visual clutter (no toolbars or control icons) that makes it easy to scan the items on the page and see what work has been assigned. To switch the page to 'edit mode', click on "Modify Layout/Settings" hyperlink:

· ·	Welcome, Fred Bloggs	Library Information	System 🔻	My Profile Administration Log Out Search	•			Help?
spiraTeam	My Page Proje	ect Home	Planning	Testing Tracking Reporti	na			
My Page My Timecard			3		0			Role: Manage
Welcome Fred Bloggs to Your Dashboard (Return to Normal View A	dd Items)		Display data for: All Projects Current 	nt Project			
 My Projects 			¢×	 Quick Launch 				¢×
Project Name	Group	Creatio	n Date	> Create Incident in: Library Information Syste	em 🔻 🔿			
Library Information System	Internal Projects	1-Dec-2	005	- ~				¢ ×
Sample Application One	Internal Projects	1-Dec-2	005	My Assigned Incidents				
Sample Application Two	External Projects	1-Dec-2	005	Name	Project	Туре	Priority	Date Opened
				Ability to associate multiple authors	Library Information	Enhancement	1 - Critical	17-Nov-2003
 My Saved Searches 			¢ ×	Test System Limitation	Library Information	Limitation	1 - Critical	4-Dec-2003
Name	Project			Test Training Item	Library Information	Training	1 - Critical	3-Dec-2003
Critical Not-Covered Requirements	Library Information Sy		Delete	Editing the date on a book is clunky	Library Information		2 - High	4-Nov-2003
Eailed Active Test Cases	Library Information Sy		Delete 🔊	Test Training Item	Library Information		2 - High	3-Dec-2003
New Unassigned Incidents	Library Information Sy	/stem >	Delete 🔊	Test Change Request	Library Information	Change Request	3 - Medium	7-Dec-2003
All Reopened Incidents	Library Information Sy	/stem >	· <u>Delete</u> 🔊	Ability to import data from excel	Library Information	Enhancement	3 - Medium	25-Nov-2003
High Priority Late Tasks	Library Information Sy	/stem >	Delete 🔊	Test System Limitation	Library Information	Limitation	3 - Medium	4-Dec-2003
Not Executed Test Sets	Library Information Sy	/stem >	Delete 🔊	Sample Risk 3	Library Information	Risk	4 - Low	10-Dec-2003
			ά×					¢ ×
My Assigned Requirements	D eclark			My Detected Incidents	P. J. J.			
Name	Project	Importance		Name	Project	Туре	Priority	Date Opened
Ability to create different editions	Library Information	1 - Critical	In Progress	Cannot log into the application	Library Information	Incident		1-Nov-2003
Ability to link authors to their contact	Library Information	2 - High	Requested	Clicking on link throws fatal error	Library Information	Incident		1-Nov-2003
Ability to edit existing authors in the	Library Information	2 - High	Planned	Cannot install system on Windows Mi		Issue		1-Dec-2003
Ability to delete existing authors in th	Library Information	2 - High	In Progress	Cannot install system on Oracle 9i	Library Information	Bug	1 - Critical	2-Nov-2003
Ability to create new users in the syste.	Library Information	3 - Medium	Requested	Ability to associate multiple authors	Library Information	Enhancement	1 - Critical	17-Nov-2003
Ability to import from legacy system x	Library Information	4 - Low	Requested	Cannot log into the application	Sample Application O	Incident	1 - Critical	10-Dec-2003
				Test System Limitation	Library Information	Limitation	1 - Critical	4-Dec-2003
My Assigned Test Cases			* ×	Sample Risk 1	Library Information	Risk	1 - Critical	10-Dec-2003
Name Pro	ject S	tatus Last	Executed	Test Training Item	Library Information	Training	1 - Critical	3-Dec-2003
Ability to create new book Libr Execute	ary Information P	assed 1-De	c-2003	Test Change Request	Library Information	Change Request	2 - High	6-Dec-2003
Ability to edit existing book	ary Information C	aution 1-De	c-2003	My Assigned Tasks				\$×
> Execute				Name	Project	Progress	Priority	Due Date
My Assigned Test Sets Sets			& ×	Develop new edition entry scre	Library Information		1 - Critical	12-Mar-2004
Name	Project	Due Date	Status	Create edition object insert m	Library Information		1 - Critical	12-Mar-2004
Regression Testing for Windows XP (4) > Execute	Library Information	- n/a -	Completed	Write edition object insert qu	Library Information		1 - Critical	12-Mar-2004
Exploratory Testing (2)	Library Information	- n/a -	Deferred	 Refactor author screen to incl Create author object delete me 	Library Information Library Information		2 - High 2 - High	10-Mar-2004 10-Mar-2004
> Execute	1 Shares Information	40 5	h D	Write author object delete que	Library Information		2 - High	10-Mar-2004
Testing New Functionality (4) > Execute	Library Information	10-Feb-2007	In Progress	Develop edit subject details s	Library Information		3 - Medium	27-Oct-2004
				Create subject object update m	Library Information		3 - Medium	27-Oct-2004
 My Pending Test Runs 			& ×	Mrite subject object update qu	Library Information		3 - Medium	27-Oct-2004

In this mode, each of the 'widgets' displayed on the page can be minimized by clicking on the arrow icon (\checkmark) in the top-left of the window, or closed by clicking-on the cross icon (\varkappa) in the top-right of the window. This allows you to customize your page to reflect the types of information that are relevant. If you have closed a widget that you subsequently decide you want to reopen, you can add them back to the page display by clicking the "Add Items" hyperlink at the top of the page. In addition, the various widgets have a "settings" icon (\bigstar) that allows you to customize how that widget appears. The settings are specific to each widget and in general allow you to specify how many rows of data are displayed and what columns are displayed.

You can move and reposition the various widgets on the dashboard by clicking the mouse on the title bar of the widget you want to move and dragging it to the desired location. This change will be remembered when you next login to the system. Once you have the dashboard configured the way you like it, you can click "Return to Normal View" to switch back to 'view mode'.

When you load your 'My Page' for the first time it will consists of the following main elements:

- > My Projects
- > My Saved Searches
- My Assigned Requirements
- My Assigned Test Cases
- My Assigned Test Sets
- My Pending Test Runs
- My Assigned Incidents
- My Detected Incidents
- My Assigned Tasks
- > Quick Launch

However these are not the only widgets available. If you click on the "Add/Remove" items hyperlink it will display the list of any additional widgets that are available:

Add/Remove Items	Close
Select the catalog you would like	to browse.
<u>Closed Widgets (0)</u> Available Widgets (1)	
Available Widgets	
My Saved Reports	
Add to: Left Side 🔽 Add	

You can add the additional widgets by selecting the appropriate checkbox, choosing the destination location (left side vs. right side) and then click the [Add] button. The additional widgets available in the My Page are:

- My Saved Reports
- > My Weather
- > My Subscribed Artifacts
- > My News Feeds

3.2.1. My Projects

This section lists all the projects you have been given access to, together with the name, description, project group and date of creation. To view the description of the project, simply position the mouse pointer over the link, and a tooltip window will popup containing the description.

When you initially view the page, all of the projects will be shown as links, in normal type, with a gray background. When you click on a project to view, you will be taken to that project's home-page, and that project will be set as the current project. That project will now appear in your home-page in bold-type with a white background (see above screen-shot). To change the currently selected project, simply click on the link of another project name. You can always change your current project by clicking on the drop-downlist of projects displayed on the global navigation bar to the right of the "Log Out" link.

If you are a project group member, the name of the project group will also be displayed as a hyperlink. In which case, clicking on the project group hyperlink will take you to the Project Group dashboard (see section 3.5).

3.2.2. My Saved Searches

This section lists any filters/searches you have saved from the various artifact list screens throughout the application. This allows you to store specific combinations of searches that you need to perform on a regular basis (e.g. display all newly logged incidents, display all requirements that are completed but have no test coverage).

The name of the saved search is displayed along with an icon that depicts which artifact it's for and the project it refers to. Clicking on the name of the saved search will take you to the appropriate screen in the project and set the search parameters accordingly. Clicking the "Delete" link next to the saved search will delete it. Clicking on the orange RSS icon will allow you to subscribe to the specific search so that it will be displayed in your RSS newsreader. This allows you to setup customized lists of information that can be displayed outside of SpiraTeam.

3.2.3. My Assigned Requirements

This section lists all the requirements you have been made owner of, across *all the different projects* you are a member of. This typically means that the project manager has assigned you to be responsible for either developing the supporting test cases or decomposing the requirement into its detailed work breakdown structure of project tasks. The requirement name is displayed, along with its status (requested, accepted, in-progress, etc.) and its importance.

3.2.4. My Assigned Test Cases

This section lists all the test cases you have been made owner of, across *all the different projects* you are a member of. This typically means that the project manager has assigned you to be responsible for executing the assigned test scripts. To aid in this process, the script name is displayed, along with its last execution status (failed, passed or not-run) and date of last execution. This enables you to see how recently the tests have been run, and whether they need to be re-run.

If you click on the test-name hyperlink, you will be taken to the details page for this test-case (see section 5.2) and the project that the test-case belongs to will be made your current project. If you click on the ">Execute" link listed below it will actually launch the test-case in the test-case execution module (see section 5.4) so that you can easily retest failed cases.

3.2.5. My Assigned Test Sets

This section lists all the test sets (groups of test cases) you have been made owner of, across *all the different projects* you are a member of. This typically means that the project manager has assigned you to be responsible for executing the test cases contained within the test set against a specified release of the system under test. To aid in this process, the test set name is displayed, along with its status, the project it belongs to, the number of remaining test cases to be executed, and the date by which all the tests need to have been run.

If you click on the test-set name hyperlink, you will be taken to the details page for this test-set (see section 5.6) and the project that the test-set belongs to will be made your current project. If you click on the ">Execute" link listed below it will actually launch the test-cases contained within the test-set in the test-case execution module (see section 5.4) so that you can easily carry out your assigned testing task.

3.2.6. My Pending Test Runs

This section lists any test runs that you started executing in the test case module but haven't yet completed. Once a test case or test set is executed, a pending test run entry is stored in the system so that you can continue execution at a later date. Any pending test run can be either deleted or resumed by clicking on the appropriate link.

3.2.7. My Assigned Tasks

This section lists all the project tasks that you have been made the owner of across *all the different projects* you are a member of. This typically means that the manager of the project in question has assigned development tasks to you that need to be completed so that a release can be completed and/or a requirement can be fulfilled. The tasks are listed in ascending date order so that the items with the oldest due-dates are displayed first. In addition, each task is displayed with a progress indicator that graphically illustrates its completion against schedule. See section 8 – task management for details of the different progress indicators.

Clicking on the task name hyperlink will take you to the task details page. This page will describe the task in more detail, illustrate which requirement and release it is associated with, and also allow you to view the change log of actions that have been performed on it.

3.2.8. My Assigned Incidents

This section lists all the open incidents you are the owner of, across *all the different projects* you are a member of. This typically means that the project manager has assigned you to be responsible for resolving the incident. In the case of a bug, this can mean actually fixing the problem, whereas for other incident types (e.g. training item) it may mean simply documenting a workaround. In either event, this section highlights the open incidents you need to manage, ranked by importance/priority and categorized by type, with the open date displayed to give you a sense of the age of the incident.

Clicking on the incident name hyperlink takes you to the incident details page (see section 6.2) that describes the incident in more detail, and allows you to add new information or change its status to indicate actions taken. In addition, if you position the mouse pointer over the name of the incident, a more detailed description is displayed as a "tooltip".

3.2.9. My Detected Incidents

This section lists all the open incidents that you have detected, across *all the different projects* you are a member of. These incidents are not necessarily ones that you need to take an active role in resolving, but since you were the originator – either by executing a test case or just logging a standalone incident – you can watch them to make sure that they are resolved in a timely manner.

Clicking on the incident name hyperlink takes you to the incident details page (see section 6.2) that describes the incident in more detail, and allows you to add new information or change its status to indicate actions taken. In addition, if you position the mouse pointer over the name of the incident, a more detailed description is displayed as a "tooltip".

3.2.10. Quick Launch

This widget allows users to quickly record a new incident in any of the projects that they belong to. It's a shortcut that avoids having to first select a project, go to Tracking > Incidents and then click "New Incident". Instead you simply choose the project from the dropdown list and click the arrow icon to bring up the new incident creation screen.

3.2.11. My Saved Reports

This section lists any reports you have saved from the reports center. This allows you to store specific combinations of report elements, format, filters and sorts (see the section on Reporting for more details on how to configure a report) for reports that you need to run on a regular basis:

My Saved Reports		
Name	Project	
v1.0 Release List Report	Library Information System	> <u>Delete</u>

3.2.12. My Weather

This "fun" widget is designed to allow users to make the SpiraTeam® homepage more useful so that the page becomes more central in their day-to-day operations and therefore they are more likely to keep track of the other items reflected on the page.

١	Weather for Silver Spring, MD								
	Currently in <u>Silv</u>	er Spring, MD (As of 4:37 PM)	Tomorrow	/				
		49°F 50°F / 30°F	Mostly Cloudy Wind: 4mph SSE Feels Like: 48°F Humidity: 27%		50°F / 30°F Partly Sunny Partly sunny in the morningthen becoming mostly cloudy. Highs in the upper 40s. West winds around 5 mph.				

3.2.13. My Subscribed Artifacts

This widget displays a list of all the artifacts in the system that you have subscribed to (by clicking on the Subscribe icon on the item). You can display the item by simply clicking on the hyperlink. In addition, if changes are made to any of the artifacts an email notification will be sent to you. You can click on the "Unsubscribe" link to remove the item from this list.

My Subscribed Artifacts 🔊			
Name	Project	Last Updated	
Ability to add new books to the system	Library Information	1-Dec-2003	> Unsubscribe
Ability to create new book	Library Information	1-Dec-2003	> Unsubscribe
Doesn't let me add a new category	Library Information	1-Dec-2003	> <u>Unsubscribe</u>

3.2.14. My News Feeds

This widget allows you to subscribe to an external newsfeed and have the results be displayed inside SpiraTeam. By default it will be set to the newsfeed from the Inflectra website that displays a list of recent company and product announcements. You can add multiple instances of the widget to the dashboard, allowing you to read multiple news sources at once. Typical uses for this widget are to add news from project management and testing news sites/blogs or to add information from other tools in your organization that can display their data in RSS format.

My News Feeds		
Headline	Author	Publish Date
SpiraTeam v3.2 to be Released on December 22nd, 20 🖻	webmaster@inflectra.com	12/16/2011
Rational Functional Tester Plug-In Released for Re	webmaster@inflectra.com	11/7/2011
Ranorex Plug-In Released for Spira RemoteLaunch 🖻	webmaster@inflectra.com	10/14/2011
Rapise Automated Functional Testing System Release	webmaster@inflectra.com	10/6/2011
SpiraTest/Team/Plan Patch 016 Released 멱	webmaster@inflectra.com	10/3/2011

3.3. Global Navigation

Regardless of the page you are on, SpiraTeam® will always display the global navigation bar, consisting of six section tabs (My Page, Project Home, Planning, Testing, Tracking and Reports) that correspond to the main activities that take place in the system, the global search bar, and three secondary links to "My Profile" and "Log Out" and "Help".

spira Team [*]	Welcome, Fred Bloggs Library Information System V My Profile Administration Log Out Search	\ominus	Help?					
Spiratean	My Page	Project Home	Planning	Testing	Tracking	Reporting		
My Page <u>My Timecard</u>								Role: Manager

Under the various tabs are several secondary menu options that are displayed when you hover the mouse over the appropriate tab as illustrated below:

- > My Page
 - ▷ My Page (described above)
 - \triangleright My Timecard (described in Section 3.7)

> Project Home

- ▷ Project Home (described in Section 3.4)
- ▷ Project Group Home (described in Section 3.5)
- ▷ Documents (described in Section 10)

> Planning

- ▷ Requirements (described in Section 4)
- \triangleright Releases (described in Section 7)
- \triangleright Iterations (described in Section 7.3)
- ▷ Planning Board (described in Section 7.4)

Testing

- ▷ Test Cases (described in Section 5)
- \triangleright Test Sets (described in Section 5.7)
- ▷ Test Runs (described in Section 5.5)
- \triangleright Automation Hosts (described in Section 5.9)

> Tracking

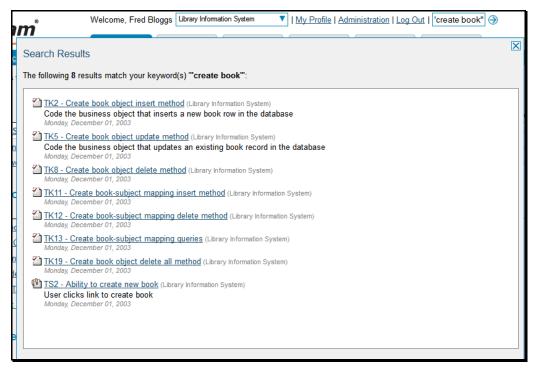
▷ Incidents (described in Section 6)

- ▷ Tasks (described in Section 8)
- \triangleright Resources (described in Section 9)
- ▷ Source Code (described in Section 12)
- Reports (described in section 11)

Note: The main tabs will take you to the appropriate artifact type (requirement, test case, incident, etc.) for the currently selected project. However if you haven't selected a project, then clicking on any of the tabs will simply take you back to "My Page" so that you can select a project.

3.3.1. Global Search

SpiraTeam includes a global search bar that can be used to search across project and artifact type for items that include the entered keywords in either the name or description field:



You can search for individual keywords by simply entering them in the search box and clicking the arrow button on the right. You can search for phrases by enclosing the words in double quotes.

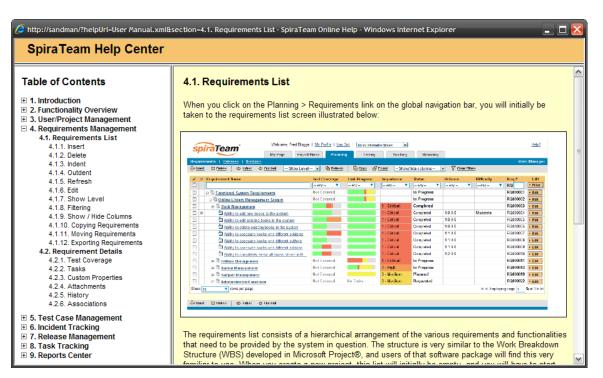
For example, searching on **book name** will find any artifacts that include either of the two words book and name in the name or description. Searching on "**book name**" will only return items that have that exact phrase in either the name or description.

3.3.2. Log Out

Clicking on the "Log Out" link will immediately log you out of your current session and return you to the login page illustrated in section 3.1. If you had set the "Remember Me" option during your previous login, that setting will be reset; so if you want to avoid having to keep logging-in, you'll need to re-check that box during your next log-in.

3.3.3. Help

Clicking on this link on any page will bring up the online version of this manual shown below:



Clicking on any of the [+] expand links in the left hand table of contents will open up the detailed list of topics for each of the main areas of the system. In each area, clicking on one of the individual links will open the appropriate section in the help manual. By default, the reading-pane will open to the help item that is most closely related to the screen you happened to be on when you clicked the "Help" link.

3.3.4. Choose Project

Choosing a project from the list of your assigned projects in the drop-down-menu allows you to quickly and easily jump between projects regardless of the page you happen to be on. When you choose a project, you will be taken to the same page in the selected project (assuming that you have permissions to view that page). You can use CTRL+click to open the new project in a separate browser tab.

3.4. Project Home

When you click on either the "Project Home" tab or the name of the project in the "My Page" project list, you will be taken to the homepage of the specific project in question:



This page summarizes all of the information regarding the project into a comprehensive, easily digestible form that provides a "one-stop-shop" for people interested in understanding the overall status of the project at a glance. It contains summary-level information for all types of artifact (requirements, test cases, incidents, etc.) that you can use to drill-down into the appropriate section of the application. *In addition to viewing the project home page, you can choose to filter by a specific release, to get the homepage for just that release (and any child iterations).*

In a similar manner to the 'My Page', the Project Home dashboard is initially loaded in 'view mode' which means that the various 'widgets' on the page are displayed with minimum visual clutter (no toolbars or control icons) that makes it easy to scan the items on the page and see the health of the status of the project at a glance. To switch the page to 'edit mode', you should click on "Modify Layout/Settings" hyperlink.

Once in 'edit mode', each of the 'widgets' displayed on the project homepage can be minimized by clicking on the arrow icon (\checkmark) in the top-left of the window, or closed by clicking-on the cross icon (\checkmark) in the top-right of the window. In addition, the widgets allow you change their settings by clicking on the settings icon (\clubsuit). This allows you to customize your view of the project to reflect the types of information that are relevant to you. If you have closed a widget that you subsequently decide you want to reopen, you can rectify by clicking the "Add Items" hyperlink at the top of the page, and locating the closed item from the list of 'Closed Widgets'.

When you load your 'Project Home' for the first time it will consists of the following main elements:

- > Project Overview
- Requirements Summary
- Requirements Coverage
- Release Task Progress
- > Task Graphs
- Late Finishing Tasks
- Late Starting Tasks
- Top Open Issues
- Top Open Risks
- Test Execution Status
- Release Test Summary
- Incident Summary
- Incident Open Count
- Requirement Incident Count

However these are not the only widgets available. If you click on the "Add/Remove" items hyperlink it will display the list of any additional widgets that are available:

Add/Remove Items	Close
Select the catalog you would like to b	orowse.
<u>Closed Widgets (0)</u> Available Widgets (4)	
Available Widgets	
Requirements Regression Cov Test Set Status Incident Aging Incident Test Coverage	verage
Add to: Left Side 🔽 Add	Close

You can add the additional widgets by selecting the appropriate checkbox, choosing the destination location (left side vs. right side) and then click the [Add] button. The additional widgets available in the Project Home dashboard are:

- Requirements Regression Coverage
- Test Set Status
- Incident Aging
- Incident Test Coverage
- ➤ Tag Cloud
- > Recent Builds

Each of the different widgets listed is described in more detail below:

3.4.1. Project Overview

This section displays the name of the project, together with a brief description, the web-site that points to any additional information about the project, and the names of the owners of the project.

3.4.2. Requirements Summary

This section consists of a summary table that displays the aggregate count of requirements in the system broken-down by importance (on the x-axis) and status (on the y-axis). This allows the project manager to determine how many critical vs. low priority enhancements are waiting to be implemented, vs. actually being implemented. In addition, it makes a distinction between those requirements simply requested and those actually planned for implementation, so the project manager can see what the backlog is between the customer's demands, and the plan in place. Clicking on the "View Details" link at the top of the table simply brings up the project requirements list (see section 4.1), whereas clicking on the individual values in the cells will display the requirements list with the filter set to match the importance and status of the value.

3.4.3. Requirements Coverage

This section consists of a bar graph that displays the aggregated count of requirements test coverage for the project. The Passed, Failed, Blocked, Caution and Not-Run bars indicate the total count of requirements that have tests covering them, allocated across the execution status of the covering tests. For example if a requirement is covered by *four tests*, two that have passed, one that has failed and one that has not yet been run, the counts would be passed = 0.5, failed = 0.25 and not-run 0.25. These

fractional quantities are then summed across all the requirements to give the execution status breakdown of the covered requirements.

In addition to the five statuses for the covered requirements, the sixth ("Not Covered") bar depicts the total number of requirements that have no tests covering them, putting the five other bars into perspective. Typically a project is in good health if the "Not Covered" bar is zero, and the count of "Passed" requirements is greater than "Failed", "Caution" or "Not Run". The greatest risk lies with the "Blocked", "Not Covered" and "Not Run" status codes, since the severity/quantity of any bugs lurking within is not yet fully known.

If you position the mouse pointer over any of the four bars, the color of the bar changes slightly and the underlying raw data is displayed as a tooltip, together with the percentage equivalent. Clicking on the any of the bars in the chart will take you to the requirements list page (see section 4.1) with the corresponding filters set.

When you filter the project home by release/iteration, this widget will filter the requirements coverage graph to only include *requirements that are specifically mapped to the selected release/iteration*. This is useful when you want to determine the test coverage of new requirements that are being added to the specific release/iteration. If instead you want to determine the regression test coverage for a release, you should add the separate "Requirements Regression Coverage" widget to the page instead.

3.4.4. Requirement Incident Count

This section displays a count of the total number of incidents, and the number of open incidents mapped against requirements in the system, sorted by the requirements that have the most open incidents first. This section is useful for determining the parts of the application that have the most instability, as you can look at the requirements that have yielded the greatest number of incidents. Clicking on any of the requirements hyperlinks will take you to the detail page for the requirement in question (see section 4.2). *You can configure in the settings whether to include requirements with no open incidents, and also how many rows of data to display.*

3.4.5. Top Open Issues

This section displays a breakdown of the top issues logged against the project, in order of decreasing priority. Note that items not given a priority are listed at the top, since critical issues could be lurking in that list, and the project manager will want to immediately review these to assign priorities. Clicking on the issue item hyperlink will take you to the incident details page for the issue in question (see section 6.2). *You can configure in the settings whether to use Priority or Severity for the display, and also how many rows of data to display.*

3.4.6. Top Open Risks

This section displays a breakdown of the top risks logged against the project, in order of decreasing priority. Note that items not given a priority are listed at the top, since critical risks could be lurking in that list, and the project manager will want to immediately review these to assign priorities. Clicking on the risk item hyperlink will take you to the incident details page for the risk in question (see section 6.2). You can configure in the settings whether to use Priority or Severity for the display, and also how many rows of data to display.

3.4.7. Release Test Summary

This widget allows you to quickly ascertain the test execution status of each of the active releases that make up the current project in one snapshot. Each release is displayed together with a graphical display that illustrates the execution status with different colored bars. In addition, if you hover the mouse over the graphical display it will display a tooltip that provides a more detailed description of the number of tests in each status.

Release Test Summary (View Details)		
Release / Iteration	# Tests	Execution Status
ि <u>1.0.0.0 - Library System Release 1</u>	<u>7</u>	
1.0.1.0 - Library System Release 1 SP1	<u>7</u>	
1.0.2.0 - Library System Release 1 SP2	<u>7</u>	
1.1.0.0 - Library System Release 1.1	<u>9</u>	
1.1.1.0 - Library System Release 1.1 SP1	<u>7</u>	
1.2.0.0 - Library System Release 2005	<u>7</u>	

Each release will display the aggregate status of any test cases directly assigned to itself, together with the test status of any child iterations that are contained within the Release. Clicking on one of the releases will drill you down one level further and display the test execution status for the parent release as well as each of the child iterations separately:

Release Test Summary (View Details)		
Release / Iteration	# Tests	Execution Status
1.1.0.0 - Library System Release 1.1	<u>9</u>	
🖺 <u>1.1.0.0.0001 - Iteration 001</u>	2	
1.1.0.0.0002 - Iteration 002	<u>3</u>	
1.1.0.0.0003 - Iteration 003	<u>4</u>	

3.4.8. Incident Summary

This section consists of a summary table that displays the aggregate count of incidents in the system broken-down by priority (on the x-axis) and status (on the y-axis). This allow the project manager to determine how many critical vs. low priority incidents are waiting to be addressed, and how many new items need to be categorized and assigned. Clicking on the "View Details" link at the top of the table simply brings up the incident list (see section 6.1), whereas clicking on the individual values in the cells will display the incident list with the filter set to match the priority and status of the value.

By default this summary table displays the total count of all incidents – regardless of type, however my changing the drop-down list to a specific incident type (e.g. bug, enhancement, issue, etc.), the project manager can filter the summary table to just items of that type. You can also configure in the settings whether to use Priority or Severity for the x-axis

3.4.9. Test Execution Status

This section consists of a bar graph that displays the aggregated count of test cases in each execution status for the project. Note that this graph does not consider past test-runs when calculating the totals in each status (Passed, Failed, Not Run, etc.), it simply looks at each test-case and uses the last-run status as the best health indicator. Thus if a test case that previously passed, has subsequently failed upon re-execution, it will be considered a failure only.

If you position the mouse pointer over any of the five bars, the color of the bar changes slightly and the underlying raw data is displayed as a tooltip, together with the percentage equivalent. Clicking on any of the bars will bring up the project test case list (see section 5.1) with the appropriate filter applied.

In addition to the bar-chart, there is also a display of the total number of test runs recorded for the project, and a list of the *five most recent* days of recorded test-runs, together with the daily count.

3.4.10. Release Task Progress

This widget allows you to quickly ascertain the task progress of each of the active releases that make up the current project in one snapshot. Each release is displayed together with a graphical display that illustrates the completion percentage and status with different colored bars. In addition, if you hover the mouse over the graphical display it will display a tooltip that provides a more detailed description of the number of tasks in each status.

Release Task Progress (View Details)				
Release / Iteration	Tasks	Est.	Proj.	Task Progress
1.0.0.0 - Library System Release 1	<u>18</u>	94.0h	95.8h	
ि <u>1.0.1.0 - Library System Release 1 SP1</u>	<u>4</u>	15.3h	15.3h	
1.0.2.0 - Library System Release 1 SP2	<u>0</u>	-	-	No Tasks
1.1.0.0 - Library System Release 1.1	<u>15</u>	71.0h	70.7h	
ी <u>1.1.1.0 - Library System Release 1.1 SP1</u>	<u>0</u>	0.9h	0.9h	No Tasks
1.2.0.0 - Library System Release 2005	<u>3</u>	10.0h	9.5h	

Each release will display the aggregate progress of any tasks directly assigned to itself, together with the task progress of any child iterations that are contained within the Release. Clicking on one of the releases will drill you down one level further and display the task progress for the parent release as well as each of the child iterations separately:

Release Task Progress (View Details)						
Release / Iteration	Tasks	Est.	Proj.	Task Progress		
1.0.0.0 - Library System Release 1	<u>18</u>	94.0h	95.8h			
🖺 <u>1.0.0.0.0001 - Iteration 001</u>	<u>6</u>	32.0h	32.0h			
1.0.0.0.0002 - Iteration 002	<u>6</u>	32.0h	32.0h			
🖺 <u>1.0.0.0.0003 - Iteration 003</u>	<u>6</u>	30.0h	31.8h			

3.4.11. Late Finishing Tasks

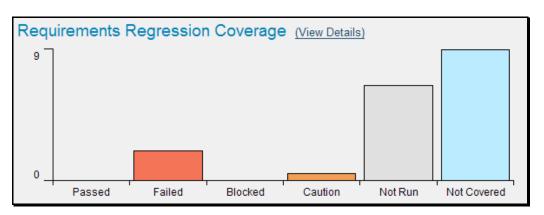
This section displays the list of any project tasks that have not yet been completed, but whose scheduled end date has already elapsed. A graphical progress bar is included with each task in the grid, so that you can easily see which tasks are nearest completion.

3.4.12. Late Starting Tasks

This section displays the list of any project tasks that have not yet started, but whose scheduled start date has already elapsed. Each task is listed along with its owner, priority and due-date so that you quickly ascertain how many days late it will be starting, how important it is to the project, and who needs to be contacted to get more information.

3.4.13. Requirements Regression Coverage

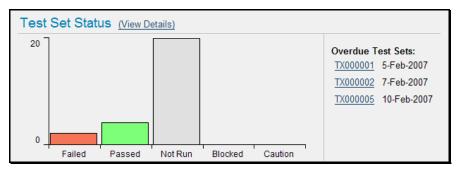
This section consists of a bar graph that displays the aggregated count of requirements test coverage for the project in a similar fashion to the 'Requirements Coverage' widget:



However, unlike the 'Requirements Coverage' widget, when you filter the project home by release/iteration, this widget will filter the requirements coverage graph to include all requirements (regardless of release/iteration), but only considering covering test cases that are associated with the selected release/iteration. This is useful when you want to determine the regression requirements test coverage of a specific release (i.e. does running all the tests relevant to this release cover <u>all the necessary</u> requirements, not just new requirements).

3.4.14. Test Set Status

This section consists of a bar graph that displays the aggregated count of test cases in each execution status for <u>each test set</u> in the project:



Therefore if you have the same test cases stored in multiple test sets, then this widget will display the total test case count for all combinations of test set. This is useful if you have the same test cases being executed in different environments – represented by different test sets – and you need to make sure that the tests passed successfully in all environments.

If you position the mouse pointer over any of the five bars, the color of the bar changes slightly and the underlying raw data is displayed as a tooltip, together with the percentage equivalent. Clicking on any of the bars brings up the project test set list (see section 5.6) page with the appropriate filter applied. In addition to the bar-chart, there is also a display of the *five most overdue test sets in the project*.

3.4.15. Incident Aging

This section displays the number of days incidents have been left open in the system. The chart is organized as a histogram, with the count of incidents on the y-axis and different age intervals on the x-axis.

3.4.16. Incident Test Coverage

This section displays a bar-graph that illustrates the execution status of any test cases that previously failed and resulted in the generation of an incident that has subsequently been resolved. This is very useful when a test case was executed in Release 1.0 and an incident was logged. That incident has now

been resolved in Release 1.1 (and is in a closed status) but we need to know that the test case that caused the failure has been successfully re-run. Any test cases listed as Blocked, Caution, Not-Run or Failed in this graph need to be executed to verify that all resolved bugs in the release have truly been fixed.

3.4.17. Task Graphs

This widget lets you quickly view the three main graphs used when measuring the progress of tasks in an agile methodology:

- 1. **Task Velocity** this graph shows the total estimated and actual effort delivered in each project release and/or iteration
- Task Burnup this graph shows the cumulative amount of work outstanding for each release/iteration in the project with separate lines for the estimated, remaining and completed effort.
- Task Burndown this graph shows the remaining work that needs to be done for each release/iteration in the project with separate lines for the estimated, remaining and completed effort.

For each of the three graphs you can click on the "Display Data Grid" link to display a grid of the underlying data that is represented in the graph and also there are options to save the graph in a variety of different image formats.

3.4.18. Tag Cloud

This widget lets you see the list of document tags being used in the project:



The size of the tag name indicates the relative frequency of its usage in the project. Clicking on a document tag will open up the Document List page (see section 10.1) with the filter set to the tag you clicked on. This will display a list of related documents that have been tagged with the same tag name.

3.4.19. Recent Builds

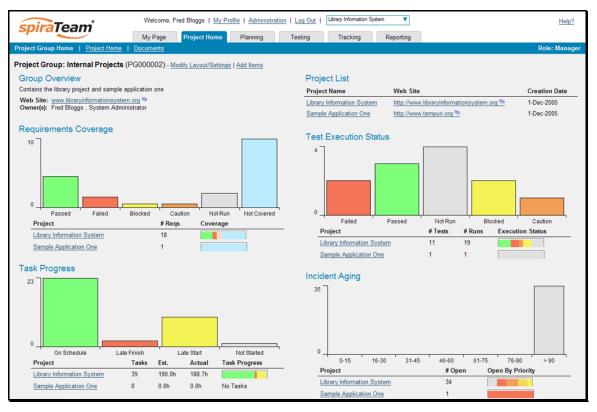
This widget displays a list of the most recent builds that have been performed as part of the current release or iteration:

Red	cent Builds		
Nam	ie	Status	Creation Date
2	Build 0015	Succeeded	3/12/2004 12:00:00 AM
2	Build 0014	Succeeded	3/11/2004 12:00:00 AM
2	Build 0013	Failed	3/10/2004 12:00:00 AM
2	Build 0012	Failed	3/9/2004 12:00:00 AM
2	Build 0010	Failed	3/8/2004 12:00:00 AM

For each build it will display whether the build succeeded or failed, the date the build occurred and the name of the build together with a hyperlink to the build details (see section X). Note: If no release or iteration is selected then the widget will not display any data.

3.5. Project Group Home

When you click on either the "Project Group Home" tab in the global navigation or the name of the project group in the "My Page" project list, you will be taken to the homepage of the specific project group in question:



This page summarizes all of the information regarding the project group into a comprehensive, easily digestible form that provides a "one-stop-shop" for people interested in understanding the overall status of the group as a whole as well as the relative performance of the different projects that make up the group. It contains summary-level metrics for all types of artifact (requirements, test cases, tasks, incidents, etc.) that you can use to drill-down into the appropriate project for more details.

In a similar manner to the 'My Page', the Project Group Home dashboard is initially loaded in 'view mode' which means that the various 'widgets' on the page are displayed with minimum visual clutter (no toolbars or control icons) that makes it easy to scan the items on the page and see the health of the status of the project at a glance. To switch the page to 'edit mode', you should click on "Modify Layout/Settings" hyperlink.

Once in 'edit mode', each of the 'widgets' displayed on the project group homepage can be minimized by clicking on the arrow icon (\checkmark) in the top-left of the window, or closed by clicking-on the cross icon (\bigstar) in the top-right of the window. In addition, the widgets allow you change their settings by clicking on the settings icon (\bigstar). This allows you to customize your view of the project group to reflect the types of information that are relevant to you. If you have closed a widget that you subsequently decide you want to reopen, you can rectify by clicking the "Add Items" hyperlink at the top of the page, and locating the closed item from the list of 'Closed Widgets'.

When you load the 'Project Group Home' for the first time it will consists of the following main elements:

- Group Overview
- Requirements Coverage
- > Task Progress
- Project List
- Test Execution Status
- Incident Aging

However these are not the only widgets available. If you click on the "Add/Remove" items hyperlink it will display the list of any additional widgets that are available:

Add/Remove Items	Close
Select the catalog you would like to	browse.
<u>Closed Widgets (0)</u> Available Widgets (2)	
Available Widgets	
Top Open Issues Top Open Risks	
Add to: Left Side 🔽 Add	Close

You can add the additional widgets by selecting the appropriate checkbox, choosing the destination location (left side vs. right side) and then click the [Add] button. The additional widgets available in the Project Group Home dashboard are:

- > Top Open Issues
- > Top Open Risks

Each of the different widgets listed is described in more detail below:

3.5.1. Group Overview

This section displays the name of the project group, together with a brief description, the web-site that points to any additional information about the project group, and the names of the owners of the project group.

3.5.2. Project List

This section lists all the active projects that make up the group, together with the name, description, project group and date of creation. To view the description of the project, simply position the mouse pointer over the link, and a tooltip window will popup containing the description.

3.5.3. Requirements Coverage

This section consists of a bar graph that displays the aggregated count of requirements test coverage for the entire project group. The Passed, Failed, Blocked, Caution and Not-Run bars indicate the total count of requirements that have tests covering them, allocated across the execution status of the covering tests

Under the main bar graph is displayed a table containing each project in the group and a colored bar illustrating the specific requirements coverage distribution for that project. That way you can see both the aggregate coverage and also the relative coverage for the projects. You can configure in the widget settings whether you want to see the aggregate bar graph, and/or the project-specific requirements coverage.

3.5.4. Task Progress

This section consists of a bar graph that displays the aggregated count of tasks by progress category for the entire project group. The 'On Schedule', 'Late Finish', 'Late Start' and 'Not Started' bars indicate the total count of tasks that are in that category for all the projects in the group.

Under the main bar graph is displayed a table containing each project in the group and a colored bar illustrating the specific task progress for that project (using the same coloring convention as the main graph). That way you can see both the aggregate task progress and also the relative progress for each project. You can configure in the widget settings whether you want to see the aggregate bar graph, and/or the project-specific task progress.

3.5.5. Test Execution Status

This section consists of a bar graph that displays the aggregated count of test cases by execution status for the entire project group. The Passed, Failed, Blocked, Caution and Not-Run bars indicate the total count of test cases that are in that category for all the projects in the group.

Under the main bar graph is displayed a table containing each project in the group and a colored bar illustrating the specific test case execution status for that project (using the same coloring convention as the main graph). That way you can see both the aggregate test status and also the relative status for each project. You can configure in the widget settings whether you want to see the aggregate bar graph, and/or the project-specific test status.

3.5.6. Incident Aging

This section displays the number of days incidents have been left open in the system. The chart is organized as a histogram, with the count of incidents on the y-axis (for all projects in the group) and different age intervals on the x-axis.

Under the main bar graph is displayed a table containing each project in the group and a colored bar illustrating the distribution of <u>open incidents by priority</u> for that project. That way you can see both the aggregate aging for the group and also the relative priority of open incidents for each project. You can configure in the widget settings whether you want to see the aggregate aging histogram, and/or the project-specific incident count by priority.

3.5.7. Top Open Issues

This section displays a breakdown of the top issues logged against any of the projects in the group, in order of decreasing priority. Note that items not given a priority are listed at the top, since critical issues could be lurking in that list, and the project manager will want to immediately review these to assign priorities. Clicking on the issue item hyperlink will take you to the incident details page for the issue in

question (see section 6.2). You can configure in the settings whether to use Priority or Severity for the display, and also how many rows of data to display.

3.5.8. Top Open Risks

This section displays a breakdown of the top risks logged against any of the projects in the group, in order of decreasing priority. Note that items not given a priority are listed at the top, since critical risks could be lurking in that list, and the project manager will want to immediately review these to assign priorities. Clicking on the risk item hyperlink will take you to the incident details page for the risk in question (see section 6.2). You can configure in the settings whether to use Priority or Severity for the display, and also how many rows of data to display.

3.6. My Profile

When you click on either the "My Profile" link in the global navigation, you will be taken to the page in the system that allows you to view and edit your personal profile:

Please review the inform Click [Update] to save cl		make any changes if ne	cessary.			► Update ► Cancel
User Name/ID:	fredbloggs [US:0000	2]				
First Name*:	Fred					
Middle Initial:						
Last Name*:	Bloggs					
RSS Token:	Enable RSS Feed	ls				
	{7A05FD06-83C3-44	36-B37F-51BCF006048	3} Generate Nev	1		
Change Password	Email Preferences	LDAP Settings	Regional Settings	Actions		
To change your par	ssword, you must ente	r your current password	and the password you wo	ıld like to change it	to.	
Current Password	1:					
New Password:						
Confirm Passwor	d:					

You can change your user information including your first-name, last-name, and middle-initial. Clicking the <Update> button will commit the changes, whereas clicking <Cancel> returns you back to either "Project Home" or "My Page" depending on whether you have a project currently selected or not.

If you want to be able to subscribe to RSS feeds of the information assigned to you in the "My Page", make sure that the "Enable RSS Feeds" checkbox is selected and an RSS token has been generated in the textbox underneath.

3.6.1. Change Password

In addition to being able to update your user information, you can optionally change your password at the same time. To change your password, on the Change Password tab fill in the three boxes with your current password, and your new password repeated for verification. Then when the <Update> button is clicked, the system will update your password, otherwise you will simply get a warning message indicating what needs to be corrected.

Change Password	Email Preferences	LDAP Settings	
To change your p Current Passwo		enter your current pas	ssword and the password you would like to change it to.
New Password:			
Confirm Passwo	ord:		

Note: If your SpiraTest user profile is linked to an account stored in an external LDAP server, you may find the change password option is disabled. This is because the system uses the password held in the external server. To change the password in this case, please contact your system administrator who will be able to help you change the password in your LDAP environment.

3.6.2. Email Preferences

Change Password	Email Preferences	LDAP Settings	
Email Address*:	adn	ninistrator@mycomp	any.com
Enable Email No		▼	
	If disa	abled, you will not get any	notifications from SpiraTeam

Here you can configure the email address that the application will send notifications to, and whether or not you want to receive email notifications.

If the Enable Notifications cannot be changed, it means that the system is either not configured to send out notifications, or the administrator has disabled user's ability to opt out of notifications being sent.

3.6.3. LDAP Settings

Change Password	Email Preferences	LDAP Settings	
LDAP DN: Not	Linked		

This tab will show configured LDAP options for your account. At this time, no configurable options are on this tab, it is for reference only.

3.6.4. Regional Settings

Change Password	Email Preferences	LDAP Settings	Regional Settings	
			tting determines which r efault value will be used	umber/date formats are used as well as which language is used throughout
User Culture:	Use Applic	ation Default		

This tab will display the current culture associated with your profile. By default all profiles will be set to use the application's default culture. This means that the language and number formats used in the application will be the ones decided by the person who installed the system. However there are cases where you want to use a different language or number format (for example, a German employee working in the German office of a French company might want to use the German culture instead of French). You can change the culture to any of the options listed in the dropdown list.

Note: The system will only be installed with a certain number of language packs, so in some cases a selected culture will only change the number formats and not the languages displayed.

3.6.5. Actions

This tab displays the list of recent actions that you have performed in the system (across all projects):

Ch	ange Password	Email Preferences LDAP S	ettings Regional S	Settings	Actions						
Displaying 1 - 8 out of 8 items. Refresh Apply Filter Clear Filter											
 Image: A second s	Change Date $\blacktriangle \nabla$	ge Date ▲▼ Project ▲▼		Artifact Type ▲▼ Artifact Name ▲▼			Artifact ID ▲▼	Change Type ▲▼			
			Any 🔻					Any 🔻 🔻			
	2-May-2006	Library Information System [PR:1]	Incident	A Canno	t add a new book to t	<u>he system</u>	[IN:000007]	Modified			
	2-May-2006	Library Information System [PR:1]	Requirement	🖺 <u>Ability</u>	to add new books to	the system	[RQ:000004]	Modified			
	2-May-2006	Library Information System [PR:1]	Test Step	Ability Ability	to create new book		[TS:000003]	Modified			
	2-May-2006	Library Information System [PR:1]	Release	Library	<u>r System Release 1</u>		[RL:000001]	Modified			
	2-May-2006	Library Information System [PR:1]	Test Case	Ability	to create new book		[TC:000002]	Modified			
	5-Mar-2005	Library Information System [PR:1]	Incident	E Canno	t add a new book to t	<u>he system</u>	[IN:000007]	Modified			
	5-Mar-2005	Library Information System [PR:1]	Incident	The bo	ook listing screen doe	<u>sn't sort</u>	[IN:000006]	Modified			
	4-Mar-2005	Library Information System [PR:1]	Incident	The bo	ook listing screen doe	<u>sn't sort</u>	[IN:000006]	Modified			
Show	v 15 🔻 rows per pa	age	·	•			🝽 ┥ Displayin	g page 1 S of 1 ► ►			

You can search and filter the grid to find changes by project, change date range, artifact type and type of change (added, deleted, modified).

3.7. My Timecard

When you click on My Page > My Timecard the system will display a timecard that allows you to enter the effort worked on incidents and tasks currently assigned to you (across all your projects):

	aTeam _	ly Page	Project Ho	me Plann	ing 1	Testing	Tracking	Reporting				
Page	My Timecard	nyrage	Projectito	ne riani	ing	resung	Tracking	Reporting				
dv Tim	ecard - Fred Bloggs											
	ving open artifacts are currently assign	and to you										
	ter the hours worked and hours rema		ppropriate ef	fort entry boxes	below:							
/ly Assi	gned Tasks											
Task Na	me		Priority	Start Date	End Date	Project Name		Effort To Date	Additiona	I Effort	Remainin	ng Effort
🖺 ТК21	Develop new edition entry screen		1 - Critical	11-Mar-2004	12-Mar-2004	Library Informa	ation System	7.0 hours		hours	2.0	hours
🐴 тк22	Create edition object insert method		1 - Critical	11-Mar-2004	12-Mar-2004	Library Informa	ation System	3.3 hours		hours	2.5	hours
🖺 ТК23	Write edition object insert queries		1 - Critical	11-Mar-2004	12-Mar-2004	Library Informa	ation System			hours	3.0	hours
省 ТК27	Refactor author screen to include de	elete button	2 - High	9-Mar-2004	10-Mar-2004	Library Informa	ation System			hours	6.0	hours
省 тк28	Create author object delete method		2 - High	9-Mar-2004	10-Mar-2004	Library Informa	ation System	2.3 hours		hours	2.5	hours
TK29 Write author object delete query			2 - High	9-Mar-2004	10-Mar-2004	Library Informa	ation System	0.8 hours		hours	2.3	hours
TK40 Develop edit subject details screen			3 - Medium	26-Oct-2004	27-Oct-2004	Library Informa	ation System			hours	7.0	hours
TK41 Create subject object update method		<u>id</u>	3 - Medium	26-Oct-2004	27-Oct-2004	Library Informa	ation System			hours	5.0	hours
1 TK42	Write subject object update queries		3 - Medium	26-Oct-2004	27-Oct-2004	Library Informa	ation System			hours	3.0	hours
Av Acci	anod Incidente											
	gned Incidents											
Incident	Name	Priority	Severity	Start Date	Project Nan			e Additional E		emaining	-	
Incident	Name Ability to associate multiple authors	1 - Critical	Severity 1 - Critical	20-Nov-2003	Library Infor	mation System	0.1 hours	e Additional E	hours 0	.3	hours	
Incident	Name Ability to associate multiple authors Test System Limitation	1 - Critical 1 - Critical	1 - Critical		Library Infor	mation System mation System	0.1 hours	e Additional E	hours (.3	hours	
Incident	Name Ability to associate multiple authors Test System Limitation	1 - Critical 1 - Critical 1 - Critical	1 - Critical	20-Nov-2003 7-Dec-2003	Library Infor Library Infor Library Infor	mation System	0.1 hours	e Additional E	hours (hours (hours (.3 .2 .4	hours hours hours	
Incident IN21 IN21 IN46 IN40	Name Ability to associate multiple authors Test System Limitation Test Training Item Editing the date on a book is clunky	1 - Critical 1 - Critical 1 - Critical	1 - Critical 2 - High	20-Nov-2003 7-Dec-2003 4-Dec-2003	Library Infor Library Infor Library Infor Library Infor	mation System mation System mation System	0.1 hours	e Additional E	hours (C) hours (C) hours (C) hours (C)	.3 .2 .4 .2	hours hours hours hours	
Incident IN21 IN46 IN46 IN40 IN40 IN8 IN8 IN41	Name Ability to associate multiple authors Test System Limitation Test Training Item Editing the date on a book is clunky Test Training Item	1 - Critical 1 - Critical 1 - Critical 2 - High	1 - Critical 2 - High 4 - Low	20-Nov-2003 7-Dec-2003 4-Dec-2003 6-Nov-2003	Library Inform Library Inform Library Inform Library Inform Library Inform	mation System mation System mation System mation System	0.1 hours	Additional E	hours () hours () hours () hours () hours ()	.3 .2 .4	hours hours hours	
Incident IN21 IN46 IN46 IN40 IN40 IN8	Name Ability to associate multiple authors Test System Limitation Test Training Item Editing the date on a book is clunky Test Training Item Test Change Request	1 - Critical 1 - Critical 1 - Critical 2 - High 2 - High	1 - Critical 2 - High 4 - Low	20-Nov-2003 7-Dec-2003 4-Dec-2003 6-Nov-2003 4-Dec-2003	Library Inform Library Inform Library Inform Library Inform Library Inform Library Inform	mation System mation System mation System mation System mation System	0.1 hours 0.7 hours	Additional E	hours () hours () hours () hours () hours ()	.3 .2 .4 .2 .3 .3 .4	hours hours hours hours hours	
Incident IN21 IN46 IN46 IN40 IN40 IN40 IN40 IN40 IN40 IN40 IN40	Name Ability to associate multiple authors Test System Limitation Test Training Item Editing the date on a book is clunky. Test Training Item Test Change Request Ability to import data from excel	1 - Critical 1 - Critical 1 - Critical 2 - High 2 - High 3 - Medium 3 - Medium	1 - Critical 2 - High 4 - Low	20-Nov-2003 7-Dec-2003 4-Dec-2003 6-Nov-2003 4-Dec-2003 8-Dec-2003 26-Nov-2003	Library Inform Library Inform Library Inform Library Inform Library Inform Library Inform	mation System mation System mation System mation System mation System	0.1 hours 0.7 hours 0.3 hours	Additional E	hours () hours () hours () hours () hours () hours ()	.3 .2 .4 .2 .3 .4 .1	hours hours hours hours hours hours	

The system will only include projects that have time-tracking enabled for incidents and tasks, so if some of your assigned incidents or tasks are missing, please check with the project owner of the projects affected to have them enable time-tracking.

Each task or incident will be displayed along with its priority, severity, start-date, end-date, project name effort remaining and effort expended to date. For each item you can then indicate the additional actual effort performed (which will be added to the "actual effort") and modify the amount of hours remaining. Once you are satisfied, click [Submit Timecard] to commit the changes.

4. Requirements Management

This section outlines how the requirements management features of SpiraTeam® can be used to develop a requirements / scope matrix for a project, and how you can map any existing test-cases to the requirements. Typically when starting a project, developing the requirements list is the first activity after the Administrator has set up the project in the system.

4.1. Requirements List

When you click on the Planning > Requirements link on the global navigation bar, you will initially be taken to the requirements list screen illustrated below:

	My Page Project Home	Planning	Testing	Tracking	Reporting				
	irements <u>Releases</u> <u>Iterations</u> <u>Planning Board</u>					140		Ro	de: Mana
n ln	sert 🗱 Delete 💠 Indent 🔶 Outdent - Show Level - 🔻	Refresh D	Edit (1) Tools	- Showfhide columns -	T T Filt	er			
1	Requirement Name	Test Coverage	Task Progress	Progress Importance		Release	Difficulty	Req #	Edit
		- Any - 🔻	- Any - 🔻	- Any - 🔻	- Any - 🔻	- Any - 🔻	- Any 🔻	RQ	► Edit
	B Tunctional System Requirements	Not Covered			In Progress			RQ000001	► Edit
3	Online Library Management System	Not Covered			In Progress			RQ000002	► Edit
5	B Book Management			1 - Critical	Completed			RQ000003	+ Edit
1	Ability to add new books to the system		7	1 - Critical	Completed	1.0.0.00001	Moderate	RQ000004	+ Edit
	Ability to edit existing books in the system			1 - Critical	Completed	1.0.0.00001		RQ000005	+ Edit
1	Ability to delete existing books in the system			1 - Critical	Completed	1.0.0.0002		RQ000006	+ Edit
5	Ability to associate books with different subjects			1 - Critical	Completed	1.1.0.0.0001		RQ000007	+ Edi
1	Ability to associate books with different authors		6	1 - Critical	Completed	1.1.0.0.0001		RQ000008	► Edi
3	Ability to associate books with different editions			1 - Critical	Completed	1.1.0.0.0002		RQ000009	► Edi
3	Ability to completely erase all books stored in th			1 - Critical	Completed	1.2.0.0		RQ000010	► Edi
3	E Edition Management	Not Covered		1 - Critical	In Progress			RQ000011	► Edi
3	🗉 🛍 Author Management	Not Covered		2 - High	In Progress			RQ000013	► Edi
I	E Dubject Management	Not Covered	1	3 - Medium	Planned			RQ000019	► Edi
3	Administration Functions	Not Covered	No Tasks	3 - Medium	Requested			RQ000022	► Edi

The requirements list consists of a hierarchical arrangement of the various requirements and functionalities that need to be provided by the system in question. The structure is very similar to the Work Breakdown Structure (WBS) developed in Microsoft Project®, and users of that software package will find this very familiar to use. When you create a new project, this list will initially be empty, and you will have to start using the <Insert> button to start adding requirements.

Requirements come in two main flavors: summary items shown in **bold-type**, and detail items shown in normal-type with a hyperlink. When you indent a requirement under an existing requirement, the parent is changed from a detail-item to a summary-item, and when you outdent a child item, its parent will return to a detail-item (assuming it has no other children). This behavior is important to understand, as only detail items are assigned a status themselves; the summary items simply display an aggregate of the worst-case assessment of their children's status. Also, only detail items can be mapped against test-cases for test-coverage (thus only they have hyperlinks), the summary items simply display an aggregate coverage status of their children.

Each requirement is displayed along with its importance/priority (ranked from "Critical" to "Low"), its completion status (from "Requested" to "Completed"), the version of the software that the requirement is planned for, and graphical indicators that represents its test coverage status and its task progress.

For those requirements that have no test-cases covering them (i.e. validating that the requirement works as expected) the indicator consists of a white solid bar, bearing the legend "Not Covered". For those requirements that have *at least one* test-case mapped against them, they will display block graph that illustrates the last execution status of each of the mapped test-cases. Thus if the requirement is covered by two test cases, one of which passed, and one of which wasn't run, the graph will display a green bar

(50% passed) and an equal length gray bar (50% not run). To determine the exact requirements coverage information, position the mouse pointer over the bar-chart, and the number of covering tests, along with the pass / fail / blocked / caution / not-run breakdown will be displayed as a "tooltip".

For those requirements that have at least one task associated with them, they will display a block graph that illustrates the relative numbers of task that are on-schedule (green), late-starting (yellow), late-finishing (red) or just not-started (grey). These values are weighted by the effort of the task, so that larger, more complex tasks will be change the graph more than the smaller tasks. To determine the exact task progress information, position the mouse pointer over the bar-chart and the number of associated tasks, along with the details of how many are in each status will be displayed as a "tooltip".

4.1.1. Insert

Clicking on the <Insert> icon inserts a requirement *above* the currently selected requirement – i.e. the one whose check-box has been selected, at the same level in the hierarchy. If you want to insert a requirement below an existing item, you can use the Insert > Child Requirement option instead. If you insert a requirement without first selecting an existing requirement from the list, the new requirement will simply be added at the end of the list.

Once the new requirement has been inserted, the item is switched to "Edit" mode so that you can rename the default name and choose a priority, status and/or author.

4.1.2. Delete

Clicking on the <Delete> button deletes all the requirements whose check-boxes have been selected. If any of the items are summary items, the child requirements are also deleted. If all the children are deleted from a summary item, it changes back into a non-summary item.

4.1.3. Indent

Clicking on the <Indent> button indents all the requirements whose check-boxes have been selected. If any of the items are made children of a requirement that had no previous children, it will be changed from a detail item into a summary item.

4.1.4. Outdent

Clicking on the <Outdent> button de-indents all the requirements whose check-boxes have been selected. If any of the items were the only children of a summary requirement item, then that item will be changed back from a summary item to a detail item.

4.1.5. Refresh

Clicking on the <Refresh> button simply reloads the requirements list. This is useful as other people may be modifying the list of requirements at the same time as you, and after stepping away from the computer for a short-time, you should click this button to make sure you are viewing the most current requirements list for the project.

4.1.6. Edit

Each requirement in the list has an <Edit> button display in its right-most column. When you click this button or just *double-click* on any of the cells in the row, you change the item from "View" mode to "Edit" mode. The various columns are made editable, and <Update> <Cancel> buttons are displayed in the last column:

_		ct Home Plann	ing Testing	Tracking	Reporting				
	rements <u>Releases</u> <u>Iterations</u> <u>Planning Board</u> ert ☎ Delete			ools - Showfhide colu	mns - 🔻 🗸	Letter .		I	Role: Man
Ins		- V Refresh		Fools - Showhide colu	mns- V	Filter			
1	Requirement Name	Test Coverage	Task Progress	Importance	Status	Release	Difficulty	Req #	Edit
		- Any - 🔻	- Any 🔻	- Any - 🔻	- Any - 🔻	-Any-	Any 🔻	RQ	► Edit
	E Eunctional System Requirements	Not Covered			In Progress			RQ000001	► Edit
3	E Online Library Management System	Not Covered			In Progress			RQ000002	+ Edit
	E Book Management			1 - Critical	Completed			RQ000003	+ Edit
1	Ability to add new books to the system			1 - Critical 🔻 🗐	Completed V	1.0.0.0001 - 🔻 🗐	Moderate 🔻 🗐		• Update
					1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19				 Cancel
3	Ability to edit existing books in the system			1 - Critical	Completed V	1.0.0.0001 - 🔻	- None - 🔻		
3	Ability to delete existing books in the syste			1 - Critical 🔻	Completed V	1.0.0.0002 - 🔻	- None - V		
3	Ability to associate books with different subjects			1 - Critical	Completed	1.1.0.0.0001		RQ000007	+ Edit
1	Ability to associate books with different authors			1 - Critical	Completed	1.1.0.0.0001		RQ000008	+ Edit
3	Ability to associate books with different editions		4	1 - Critical	Completed	1.1.0.0.0002		RQ000009	+ Edit
3	Ability to completely erase all books stored in th			1 - Critical	Completed	1.2.0.0		RQ000010	+ Edit
3	Edition Management	Not Covered		1 - Critical	In Progress			RQ000011	► Edit
3	Author Management	Not Covered		2 - High	In Progress			RQ000013	► Edit
3	🖲 🛅 Subject Management	Not Covered		3 - Medium	Planned			RQ000019	• Edit
1	Administration Functions	Not Covered	No Tasks	3 - Medium	Requested			RQ000022	+ Edit

If you click <Edit> on more than one row, the <Update> and <Cancel> buttons are only displayed on the first row, and you can make changes to all the editable rows and then update the changes by clicking the one <Update> button. Also, if you want to make the same change to multiple rows (e.g. to change five requirements from "In Progress" status to "Completed"), you can click on the "fill" icon to the right of the editable item, which will propagate the new value to all editable items in the same column.

If you want to edit lots of items, first select their checkboxes and then click the [Edit] button on the same row as the Filters and it will switch all the selected items into edit mode.

When you have made your updates, you can either click <Update> to commit the changes, or <Cancel> to revert back to the original information. Alternatively, pressing the <ENTER> key will commit the changes and pressing the <ESCAPE> key will cancel the changes.

4.1.7. Show Level

Choosing an indent level from the 'Show Level' drop down box allows you to quickly and easily view the entire requirements list at a specific indent level. For example you may want to see all requirements drilled-down to the *third* level of detail. To do this you would simply choose 'Level 3' from the list, and the requirements will be expanded / collapsed accordingly.

4.1.8. Filtering

You can easily filter the list of requirements as illustrated in the screen-shot below:

_	My Page Project	Home Plannin	ng Testing	Tracking	Reporting				
	rements <u>Releases</u> <u>Iterations</u>							Rol	e: Mana
Ins	ert 🗱 Delete 🔿 Indent 💠 Outdent Show Leve	V Refresh	Edit &	Export Show/hi	de columns 💌	Filter			
1	Requirement Name	Test Coverage	Task Progress	Importance	Status	Release	Difficulty	Reg #	Edit
		- Any 🔻	Any 🔻	Any 🔻	Requested V	Any 🔻	- Any 🔻	RQ	> Filte
	🖃 🛍 Functional System Requirements	Not Covered			In Progress			RQ000001	+ Edit
1	Online Library Management System	Not Covered			In Progress			RQ000002	+ Edit
]	Author Management	Not Covered		2 - High	In Progress			RQ000013	+ Edit
	Ability to link authors to their contact informati	Not Covered		2 - High	Requested	1.1.0.0		RQ000017	+ Edit
3	Administration Functions	Not Covered	No Tasks	3 - Medium	Requested			RQ000022	► Edit
3	Ability to completely backup the database	Not Covered	No Tasks	3 - Medium	Requested			RQ000023	+ Edit
	🖻 Ӵ Data Import Functionality	Not Covered	No Tasks	4 - Low	Requested			RQ000024	+ Edit
3	Ability to import from legacy system x	Not Covered	No Tasks	4 - Low	Requested			RQ000025	► Edit
]	Ability to create new users in the system		No Tasks	3 - Medium	Requested			RQ000026	+ Edit
	Ability to modify existing users in the system	Not Covered	No Tasks	3 - Medium	Requested			RQ000027	+ Edit
NUM	15 Trows per page						i⊲ ⊲ Display	ing nage 1	S of 1

To filter the list by any of the displayed columns, you either choose an item from the appropriate dropdown list or enter a free-text phrase (depending on the type of field) then click the <Filter> icon or press the <ENTER> key to apply the different filters. Note that the name field is searched using a "LIKE" comparison, so that searching for "database" would include any item with the word database in the name. The other freetext fields need to be exact matches (e.g. dates, requirement numbers). In the screen-shot above, we are filtering on Status = Requested.

In addition, if you have a set of filters that you plan on using on a regular basis, you can choose the option Filter > Save Filter to add the current filter to the list of saved filters that appear on your 'My Page'. The list of saved filters can also be retrieved by clicking Filter > Retrieve Filter:

	My Profile Log (Out Library Inform	ation Syste	m 🔻]				Help?
My Page Project	Home Plannin	g Testing	Tr	acking	Reporting				
Requirements Releases Iterations								Role	: Manager
r Insert 🗱 Delete 🐟 Indent 💠 Outdent Show Level	Refresh	Edit 🚱 Expor	<u>t</u> Sh	ow/hide co	lumns 🔻 🔻	Tilter			
✓ iii Requirement Name	т			nce	Status	Apply Filter	ulty	Reg #	Edit
	Save Filter			TCC	Any V	Clear Filter	v V	RQ RQ	► Filter
E Functional System Requirements	N Please choose	a name for this filter:			In Progress	Retrieve Filte	. []	RQ000001	► Edit
Online Library Management System	N				In Progress	Save Filter	<u>.</u>	RQ000002	
Book Management				al	Completed	Save Filter		RQ000003	► Edit
B B Ability to add new books to the system		> <u>Save</u> <u>C</u>	ancel	al	Completed	1.0.0.0	Moderate	RQ000004	► Edit
Ability to edit existing books in the system			1 - Critic	al	Completed	1.0.0.0		RQ000005	► Edit
Ability to delete existing books in the system			1 - Critic	al	Completed	1.0.0.0		RQ000006	► Edit
Ability to associate books with different subjects			1 - Critic	al	Completed	1.1.0.0		RQ000007	► Edit
Ability to associate books with different authors			1 - Critic	al	Completed	1.1.0.0		RQ000008	► Edit
Ability to associate books with different editions			1 - Critic	al	Completed	1.1.0.0		RQ000009	► Edit
Ability to completely erase all books stored in th			1 - Critic	al	Completed	1.2.0.0		RQ000010	► Edit
Edition Management	Not Covered		1 - Critic	al	In Progress			RQ000011	► Edit
Author Management	Not Covered		2 - High		In Progress			RQ000013	► Edit
B Subject Management	Not Covered		3 - Medi	um	Planned			RQ000019	► Edit
Administration Functions	Not Covered	No Tasks	3 - Medi	um	Requested			RQ000022	► Edit
Show 15 Trows per page							🛯 🗏 Displaying	g page 1	Sof 1 ⊫ ⊨
n Insert 🗱 Delete 💠 Indent 💠 Outdent									

4.1.9. Show / Hide Columns

This drop-down list allows you to change the fields that are displayed in the requirement list as columns for the current project. To show a column that is not already displayed, simply select that column from the list of "Show..." column names and to hide an existing column, simply select that column from the list of "Hide..." column names. This is stored on a per-project basis, so you can have different display settings for each project that you are a member of. The fields can be any of the built-in fields or any of the custom properties set up by the project owner.

4.1.10. Copying Requirements

To copy a requirement or set of requirements, simply select the check-boxes of the requirements you want to copy and then select the Edit > Copy menu option. This will copy the current requirements selection to the clipboard. Then you should select the place where you want the requirements to be inserted and choose the Edit > Paste option.

The requirements will now be copied into the destination location you specified. The name of the copied requirements will be prefixed with "Copy of..." to distinguish them from the originals. Note that copied requirements will also include the test coverage information from the originals.

4.1.11. Moving Requirements

To move a requirement in the requirements hierarchy, there are two options:

1. Click on the icon the requirement you want to move and then drag the icon to the location you want it moved. The border between the destination requirements will change as the icon is dragged over it to illustrate where it will be inserted:

Ś	Welcome, System Adn			Log Out Librar	ry Information System	~			Help?			
Poqui	rements Releases Iterations	Home Plannin	ig Testing	macking	Reporting			Pole: Pro	ject Owner			
st Ins		- 🗸 📴 Refresh	Copy 🗗 Ex	nort Show/hid	e columns 💌	Clear Filters		Kole. Proj	Ject Owner			
-U- 113												
~	Requirement Name	Test Coverage	Task Progress	Importance	Status	Author	Release	Req #	Edit			
		Any 🔻	Any 🔻	Any 🔻	Any 🔻	Any 🔻	Any 🔻	RQ	► Filter			
	Eunctional System Requirements	Not Covered			In Progress	Fred Bloggs		RQ000001	► Edit			
	Online Library Management System	Not Covered			In Progress	Fred Bloggs		RQ000002	► Edit			
	Book Management			1 - Critical	Completed	Fred Bloggs		RQ000003	► Edit			
	Ability to add new books to the system			1 - Critical	Completed	Fred Bloggs	1.0.0.0	RQ000004	► Edit			
	Ability to edit existing books in the system			1 - Critical	Completed	Fred Bloggs	1.0.0.0	RQ000005	► Edit			
	Ability to delete existing books in the system			1 - Critical	Completed	Fred Bloggs	1.0.0.0	RQ000006	► Edit			
	Ability to associate books with different subjects			1 - Critical	Completed	Fred Bloggs	1.1.0.0	RQ000007	► Edit			
	Ability to associate books with different authors			1 - Critical	Completed	Fred Bloggs	1.1.0.0	RQ000008	► Edit			
	Ability to associate books with different editions			1 - Critical	Completed	Fred Bloggs	1.1.0.0	RQ000009	► Edit			
	Ability to edit existing books in the system			1 - Critical	Completed	Fred Bloggs	1.2.0.0	RQ000010	► Edit			
	🖲 🛅 Edition Management	Not Covered		1 - Critical	In Progress	Fred Bloggs		RQ000011	► Edit			
	Author Management	Not Covered		2 - High	In Progress	Joe P Smith		RQ000013	► Edit			
	Subject Management	Not Covered		3 - Medium	Planned	Joe P Smith		RQ000019	► Edit			
	Administration Functions	Not Covered	No Tasks	3 - Medium	Requested	Joe P Smith		RQ000022	► Edit			
Show			1			1	l≪ ≪ Displayin	g page 1	s of 1 ⊫ ⊫			

Once you have the requirement positioned at the correct place that you want it inserted, just release the mouse button and the requirement list will be refreshed, with the requirement moved to the desired location. To move multiple items simply select their checkboxes and then drag-and-drop one of the selected items.

 Alternatively you can simply select the check-boxes of the requirements you want to move and then select the Edit > Cut menu option. This will cut the current requirements selection to the clipboard. Then you should select the place where you want the requirements to be inserted and choose the Edit > Paste option. The requirements will now be moved into the destination location you specified.

4.1.12. Exporting Requirements

To export a requirement or set of requirements from the current project to another project in the system, all you need to do is select the check-boxes of the requirement(s) you want to export and then click the Tools > Export icon. This will then bring up a list of possible destination projects:

	SpiraTeam My Page Project Home	Planning	Testing Tra	cking	Reporting				
lequ	quirements <u>Releases</u> <u>Iterations</u> <u>Planning Board</u>							Ro	e: Mana
> In	Insert 😫 Delete 💠 Indent 💠 Outdent - Show Level - 🔻	Refresh Q	Edit I Tools - Show	whide columns -	T TEilt	<u>er</u>			
1		Export Items		rtance	Status	Release	Difficulty	Req #	Edit
				- •	- Any - 🔻	- Any - 🔻	- Any - 🔻	RQ	Edit
٥	E E Functional System Requirements	Abeces above a construction of the	oject you want to export to:	-	In Progress			RQ000001	Edit
5	Online Library Management System	Select Project	•		In Progress			RQ000002	+ Edit
	Book Management			ritical	Completed			RQ000003	• Edit
	Ability to add new books to the system		> Export Cancel	nitical	Completed	1.0.0.00001	Moderate	RQ000004	+ Edit
	Ability to edit existing books in the system		1-0	ritical	Completed	1.0.0.00001		RQ000005	+ Edit
1	Ability to delete existing books in the system		1-0	Critical	Completed	1.0.0.0002		RQ000006	+ Edit
۰	Ability to associate books with different subjects		1-0	Critical	Completed	1.1.0.0.0001		RQ000007	+ Edit
1	Ability to associate books with different authors		1-0	Critical	Completed	1.1.0.0.0001		RQ000008	• Edit
	Ability to associate books with different editions		1-0	Critical	Completed	1.1.0.0.0002		RQ000009	► Edit
	Ability to completely erase all books stored in th		1-0	Critical	Completed	1.2.0.0		RQ000010	+ Edit
	🗉 🖷 Edition Management	Not Covered	1.0	ritical	In Progress			RQ000011	► Edit
8	E Author Management	Not Covered	2.1	ligh	In Progress			RQ000013	• Edit
	🗉 🖫 Subject Management	Not Covered	3-1	Medium	Planned			RQ000019	► Edit
8	Administration Functions	Not Covered	No Tasks 3 - I	Medium	Requested			RQ000022	+ Edit

Once you have chosen the destination project and clicked the <Export> button, the requirements will be exported from the current project to the destination project. Any file attachments will also be copied to the destination project along with the requirements.

4.1.13. Creating Test Cases from Requirements

To quickly create test cases from a group of requirements, all you need to do is select the check-boxes of the appropriate requirements and then click Tools > Create Test Cases. This will then create new test cases based on the selected requirements.

4.1.14. Creating a Test Set from Requirements

To quickly create a new test set from a group of requirements, all you need to do is select the checkboxes of the appropriate requirements and then click Tools > Create Test Set. This will then create new test set containing the test cases that are already mapped to the selected requirement(s).

4.1.15. Printing Items

To quickly print a single requirement or list of requirements you can select the items' checkboxes and then click Tools > Print Items. This will display a popup window containing a printable version of the selected items.

4.1.16. Right-Click Context Menu

SpiraTeam® provides a shortcut – called the *context menu* - for accessing some of the most commonly used functions, so that you don't need to move your mouse up to the toolbar each time. To access the context menu, right-click on any of the rows in the requirements list and the following menu will be displayed:

Ability to add new books to the system			1 - Critical	Completed	<u>1.0.0.0001</u>	Moderate
Ability to edit existing books in the system	Open Item		1 - Critical	Completed	1.0.0.0001	
Ability to delete existing books in the system	🔀 Open in New Tab		1 - Critical	Completed	1.0.0.0002	
Ability to associate books with different subjects	🕂 Insert		1 - Critical	Completed	1.1.0.0.0001	
Ability to associate books with different authors	Edit Items		1 - Critical	Completed	1.1.0.0.0001	
Ability to associate books with different editions	🗱 Delete		1 - Critical	Completed	1.1.0.0.0002	
Ability to completely erase all books stored in th	Indent		1 - Critical	Completed	<u>1.2.0.0</u>	
Edition Management	Outdent		1 - Critical	In Progress		
E Author Management	Copy Items		2 - High	In Progress		
Euclideat Management	Cut Items		3 - Medium	Planned		
	Paste Items	No Tasks	3 Modium	Pequested		

You can now choose any of these options as an alternative to using the icons in the toolbar.

4.2. Requirement Details

When you click on a requirement item in the requirements list described in section 4.1, you are taken to the requirement details page illustrated below:

spiraTeam	Welcome, Fred E	lloggs <u>My Profile</u> <u>Ad</u>	ministration Log Ou	ut Library Information	System V	Help?
spirarca	My Page P	roject Home Plann	ing Testing	Tracking	Reporting	
Requirements > Requirement Details F	Releases Iteration	ns Planning Board				Role: Manager
<< Back to Requirements List	💾 Save 🛛 🗗	Copy 🗞 Refresh	🗱 Delete 🔰 🍙 Pr	int 🖂 Email	M Subscribe	
Display: Current Filter	Requirement:	ability to add new	books to the syst	em [RQ:000004]		
Functional System Requirements	Name*:	Ability to add new books	to the system			
Online Library Management Syst Book Management	Description:	Font 🔻	Size 🔻 🖪 .	ℓ⊻ ≡≡≡	目目には「「」」である「───」」である。	3
Ability to add new books to th		The ability to add new b	ooks into the system,	complete with ISBN	, publisher and other related information	
Ability to edit existing books in the						
Ability to delete existing books ir						
Ability to associate books with d	Importance:	1 - Critical	▼	Author*:	Fred Bloggs	T
Ability to associate books with d Ability to completely erase all bo	Status*:	Completed		Release:	1.0.0.00001 - Iteration 001	▼
Edition Management	Creation Date:	12/1/2003 12:00:00 AM		Owner:	Joe P Smith	Y
🗉 🛅 Author Management	Last Updated:	12/1/2003 12:00:00 AM		Plan Effort:	15.0 hours	
Subject Management	-					
Comparison Functions	Test Coverage *	Tasks #	Comments	Custom Props ·	Attachments History History	Associations *

This page is made up of *three* areas; the left pane displays the requirements list navigation, the top of the right pane displays the details of the selected requirement, and the bottom of the right pane can display different information related to the requirement.

The navigation pane consists of a link that will take you back to the requirements list, as well as a list of the peer requirements to the one selected. This latter list is useful as a navigation shortcut; you can quickly view the coverage information of all the peer requirements by clicking on the navigation links without having to first return to the requirements list page. The navigation list can be switched between three different modes:

- The list of requirements matching the current filter
- The list of all requirements, irrespective of the current filter
- The list of requirements assigned to the current user

The top part of the right pane allows you to view and/or edit the details of the particular requirement. You can edit the various fields (name, description, etc.) and once you are satisfied with them, simply click either the <Save>, <Save and Close> or <Save and New> button at the top of the page to commit the changes. In addition you can delete the current artifact by choosing <Delete>, make a copy of it by choosing <Copy>, discard any changes made by clicking <Refresh> or print it by clicking <Print>.

Using the <Email> button on the toolbar, you can send an email containing details of the requirement to an email address or another user on the system:

Email this artifact t	:0:		×
Project User:	Fred Bloggs Select a user in the project to send to.]	
© Email Addresses:	A list of email addresses, separated by ;		
Message Subject:	Leave blank for default.		
		Send Cancel	

You can specify the subject line for the email, and either a list of email addresses, separated by semicolons, or an existing project user .The content of the email is specified in the System Administration – Notification Templates.

In addition, the bottom part of the right pane can be switched between six views: "Test Coverage", "Tasks", "Comments", "Custom Properties", "Attachments", "History" and "Associations", each of which will be described in more detail below.

4.2.1. Test Coverage

In this mode, the right pane contains the test coverage information for the requirement in question:

Test Coverage *	Tasks *	Custom	Props *	Attac	chment	s *		History *	Associations *	
Available Test Cas	ses:				Test	Coverag	je:			
✓ Name					~	Test #		Name		Status
🔲 🗉 🖨 Function	nal Tests	^				TC0000	02	Ability to cre	ate new book	Failed
🗆 🗄 Ability	to create new book		Add			TC0000	80	Book manag		Passed
🗌 🗄 Ability	to edit existing book		Add	-		TC0000	13	Ween	book and author to	Not Run
🔲 🗄 Ability	to create new author		Remov	/e <						
🔲 🗄 Ability	to edit existing autho	=	Remov	eΔII						
🔲 🗄 Ability	to reassign book to d	i								
📃 🗉 🖿 Regress	ion Tests									
🔲 🗄 🖿 Scenario	o Tests									
	т.	×								
> Create Test Case	From This Require	ment 占								
The test coverage box indicates the test cases that are currently mapped against the requirement. To add test cases to this requirement, choose from the list above and click [Add]. You can use the [Remove] and [Remove All] buttons to remove tests that no longer cover the requirement.										

The pane consists of two lists of test cases, the one on the left being the hierarchical list of the test cases belonging to the project arranged in test folders. The right box (which will initially be empty) contains the list of test cases mapped to this requirement. The test cases in this box include columns for their ID, name and execution status. Hovering the mouse over the names of the test cases in either box will display a "tooltip" consisting of the test case name, place in the folder structure and a detailed description. Clicking on the hyperlinks in right-hand box will jump you to the test case details screen for the test case in question (see section 5.2.9).

To change the coverage for this requirement, you use the buttons (Add, Remove, Remove All) positioned between the two list-boxes. The <Add> button will move the selected test cases from the list of available on the left to the list of mapped on the right. Similarly the <Remove> and <Remove All> buttons will remove either the selected or all the test cases from the right list-box and add them back to the left list-box.

Finally, as a shortcut you can click the "Create Test Case from This Requirement" link to create a new test case in the list of covered test cases that will be automatically linked to this requirement. This is useful when you have created a new requirement and want to generate an initial covering test to be fleshed-out later.

4.2.2. Tasks

In this mode, the right pane displays the list of project tasks that need to be completed for the requirement to be satisfied:

Test Coverage *	Tasks *	Commen	ts	Custom Props #	Attachmer	nts *	Hist	tory #	Associations *	
> <u>New Task</u> <u>Ren</u>	nove <u>Refresh</u> <u>Apply I</u>	Filter Clear	-ilters	Show/hide co	umns 🔻 🔻	.0h / Proj. Effo	/ Proj. Effort: 16.0h			
🗸 🕘 Task Nam	e ▲▼	Progress		Status ▲▼	Priority ▲▼	Owner	▲▼	Release A	Task # ▲	' Edit
		Any	•	Any 🔻	Any 🔻	- Any	•	Any	🔻 тк	► Filter
Develop	new book entry screen			Completed	1 - Critical	Fred BI	oggs	1.0.0.0.0001	TK000001	► Edit
Create I	oook object insert metho	d		Completed	1 - Critical	Fred BI	oggs	1.0.0.0.0001	TK000002	► Edit
Write be	ook object insert queries			Completed	1 - Critical	Fred BI	oggs	1.0.0.00001	TK000003	► Edit

Each of the tasks is displayed together with its name, description (by hovering the mouse over the name), progress, priority, start-date, current owner, estimated effort, projected effort and numeric task identifier. Clicking on the task name will bring up the Task Details page which is described in more detail in section 8.2. This allows you to edit the details of an existing task.

You can perform the following actions on a task from this screen:

- New Task inserts a new task in the task list with a default set of values. The task will be associated with the current requirement.
- > Remove removes the task from this requirement without actually deleting the task
- Refresh updates the list of tasks from the server, useful if other people are adding tasks to this requirement at the same time.
- > Apply Filter Applies the entries in the filter boxes to the list of tasks
- Clear Filters Clears the current filter, so that all tasks associated with the current requirement are shown.
- Edit Clicking the [Edit] button to the right of the task allows you to edit the task inline directly on this screen. Only columns visible will be editable.
- > Show/Hide Columns Allows you to choose which Task columns are visible

The system has a series of shortcuts that simplify the editing of requirements and tasks:

- If you create a new task on the requirements page, the priority, release/iteration and owner are automatically copied from the parent requirement. You can change these suggested values before clicking [Update]
- When you assign a release/iteration to a requirement, its status automatically changes to "Planned"
- When at least one task assigned to the requirement changes from "Not Started" to "In Progress", the parent requirement automatically switches from "Planned" to "In Progress"
- When all the tasks under the requirement are completed, the parent requirement will switch to the "Completed" status.
- If you manually move a requirement that has no associated tasks from "Planned" to "In Progress", the system will automatically generate one task under the requirement and use the requirement's planned effort field to generate the task's estimated effort.

4.2.3. Comments

The Comments tab allows users to add and view discussions relating to the requirement:

Test Coverage	Tasks	Comments	Custom Props	Attachments	History	Associations
To add a new commer	nt to this requirement, p	lease enter it below a	and click the [Save] butt	on:		
Font 🔻	Size 🔻	B <i>I</i> <u>U</u> ≣	⋷ॾ ॾ│ ;⋸⋭₡¢	Ta 🗞 — 📾 🖬 🗖	◇⊉	
Existing Comm	ients					
Linding com						

Existing comments are displayed in order underneath the textbox in date order. To add a new comment, simply enter it into the textbox, and click the Save button.

4.2.4. Custom Properties

In this mode, the main pane displays any custom properties that the project owner has defined for requirements. To learn more about how to setup and configure custom properties for a project, please refer to the *SpiraTest Administration Guide*. Assuming that custom properties have been defined for your project, you will see a list of optional parameters that can be set on the requirement. These can be either freetext or drop-down-lists. In the example below, you can enter a URL, difficulty and/or Requirement Type.

Test Coverage *	Tasks #	Custom Props *	Attachments *	History *	Associations *									
The following are the cu	The following are the custom properties of this artifact:													
URL:	http://www.libraries	.org		~]									
		-		~										
Difficulty:	Moderate			V										
Requirement Type:	None			•										

Once you are satisfied with the values for the custom properties, simply click the main [Save] or [Save and New] to commit the changes.

4.2.5. Attachments

In this mode, the main pane displays the list of documents, screenshots or web-links (URLs) that have been "attached" to the requirement. The documents can be in any format, though SpiraTeam® will only display the icon for certain known types.

Tes	Test Coverage # Tasks # Comr		Custom Props *	Attachments *	History *	Associations *					
> <u>A</u>	dd New Add Existing Remove .	Refresh Apply Filte	er <u>Clear Filter</u>	Include Source Code D	ocuments						
~	Document Name ▲▼	Туре 🔺	▼	Size ▲▼	Edited By ▲▼	Edited On ▲▼	Author A	ID ▲▼			
		– Any –	V		- Any 🔻		Any 🔻	DC			
	Book Management Functional S	Spec.doc Functio	nal Specification	285 KB	Joe P Smith	30-May-2006	Fred Bloggs	DC000001			
	💼 Graphical Design Mockups.psd		Layout	1009 KB	Joe P Smith	1-May-2006	Joe P Smith	DC000013			
	Lttp://www.inflectra.com	Functio	nal Specification	0 KB	Fred Bloggs	1-May-2006	Fred Bloggs	DC000015			
	Book Management Screen Wire	frame.ai Screen	Layout	392 KB	Fred Bloggs	1-Apr-2006	Joe P Smith	DC000011			
Shov	Show 15 🔻 rows per page 1 🗣 of 1 🕨 🕅										

The attachment list includes the filename/URL that was originally uploaded together with the file-size (in KB), name of the person who attached it and the date uploaded. In addition, if you position the pointer over the filename and hold it there for a few seconds, a detailed description is displayed as a tooltip:

Book Manageme	ent Functional Spec.doc	×
Filename:	Book Management Functional Spec.doc 🖻	
Document Type:	Functional Specification	
File Type:	Word 🕮	3
Description:	This document outlines the functional specification for the book management part of the library management system.	
Version:	2.0	
Tags:	book management functional specification libraries	
Created By:	Fred Bloggs (5/2/2006 12:00:00 AM)	
Edited By:	Joe P Smith (5/30/2006 12:00:00 AM)	
Document ID:	DC000001	
	> <u>View Details Canc</u>	<u>el</u>

To actually view the document, simply click on the filename hyperlink and a new web browser window will open. Depending on the type of file, this window will either display the document / web-page or prompt you for a place to save it on your local computer. To remove an existing attachment from a requirement, simply click the [Remove] button and the attachment will be removed from the list. Using the standard filter/sort options you can also sort and filter the list of attachments to make it more manageable.

If you are using SpiraPlan or SpiraTeam (but not SpiraTest) you can also choose to include file attachments stored in a linked version control system (e.g. Subversion, CVS, Perforce, etc.) by selecting the "Include Source Code Documents" option.

To attach a new document to the requirement, you need to first click the "Add New" link to display the new attachment dialog box:

lename:*		creenshot	Type:"	○ File	O Screenshot	Ту	pe:*	O File O URL	 Screenshot 	
		Browse	URL:*			Sci	reenshot:*			
escription:			Description:		0					
ocument Type:* Function	ional Specification			Functional Specification	×					
cument Folder:* Root F	folder	•	Document Folder:*	Root Folder	٣			> Paste image from c	lipboard	_
gs:			Tags:] De	scription:			4
	(d	> Upload Cancel			> Upload Can		10000000			w.
						1.000		Functional Specification		•
							cument Folder:*	Root Folder		•
						Taç	j s:			

There are three different types of item that can be attached to a requirement:

- To upload a file, choose "File" as the type and then click the Browse button and select the file from your local computer, optionally enter a detailed description then click the <Upload> button. The document will be copied from your computer and attached to the artifact.
- To attach a web-link (URL) to the artifact, you need to choose "URL" as the type and then enter the fully qualified URL (e.g. <u>http://mywebsite.com?Document=1</u>), an optional description and then click the <Upload> button to attach the web-link.
- To attach a screenshot to the artifact, you need to choose "Screenshot" as the type and then copy the image to your computer's clipboard (e.g. on Windows computers, the PRINT SCREEN button captures the current page and adds to the clipboard). Once the image is in the clipboard, click on the "Paste image from clipboard" hyperlink and the item will appear in the preview window. You can then fill in the other fields and click <Upload> to attach the image.

Note: If you are using a non-Windows® computer (e.g. Macintosh®) that doesn't put file extensions on filenames (e.g. .xls for an Excel sheet) automatically, then you will need to manually add the file extension to the filename before uploading if you want it to be displayed with the correct icon in the attachment list.

You can also associate an existing document (that's already stored in SpiraTeam) with the requirement. To do that, click on the "Add Existing" hyperlink to bring up the add file association dialog box:

Add Existing Document			×	Add Existing Document		×
Choose the location of existing document	t that	you'd like to add:	c	Choose the location of existing document	that y	ou'd like to add:
Ocuments Source Code				Documents Source Code		
Folder	~	Document		Folder	~	File
EditExistingBook		Expected Result Screensh 📤		🗉 🧰 <u>Design</u>		🕙 Document Filename1.doc 🖾
<u>Misc Documents</u> <u>Screen Captures</u>		Web Page capture.htm		Development		Document Filename10.ppt
Screen Captures Specifications	Date Editing Screenshot.jp E E E E E	Date Editing Screenshot.jp		• Contraction Cont		Document Filename11.htm
Test Results				Documentation Training		Document Filename2.xls
Test Scripts	•	▼			•	@ n == == == == == == == == == == ==
		> Add Cancel		Comment:		
				This is a related document		
						> Add Cancel

You can then choose to either associate a document stored in the SpiraTeam Documents repository or (in the case of SpiraPlan/SpiraTeam but not SpiraTest) from the linked source code repository. In either case you first select the appropriate folder, and then pick the document(s) from the file list on the right. In the case of a source code file association you can also add a comment.

4.2.6. History

In this mode, the main pane displays the list of changes that have been performed on the requirement artifact since its creation. An example requirement change history is depicted below:

Test Coverage *	Tasks *	Comments	Custom Props *	Attachments *	History * As	sociations *					
> <u>Refresh</u> <u>Apply</u>	> Refresh Apply Filter Clear Filter										
✓ Change ID ▲	Change	e Date ▲▼ Field	Name ▲▼ 0)Id Value ▲▼	New Value ▲▼	Changed By ▲▼	Change Type ▲▼				
						Any 🔻	Any 🔻				
12	2-May-2	2006 Status	s In	n Progress	Completed	Fred Bloggs	Modified				
4	4-Mar-2	2005 Status	s R	lequested	In Progress	Joe P Smith	Modified				
Show 15 v rows	Show 15 V rows per page 1 S of 1 N										

The change history displays the date that each change was made, together with the fields that were changed, the old and new values and the person who made the change. This allows a complete audit trail to be maintained of all changes in the system. In addition, if you are logged in as a project administrator you can also click on the "Admin View" hyperlink to revert any unwanted changes.

4.2.7. Associations

In this mode, the main pane displays a list of any incidents or other requirements that are associated with this requirement:

			Attachments *	History *	Associations *		
> <u>A</u> ⁄	<u>add Delete Refresh Apply Filter Clear Filt</u> Artifact Name ▲▼		Created On		Comment ▲▼	Artifact # ▲▼	Edit
		Any 🔻		Any 🔻			► Filter
	Cannot install system on Oracle 9i	Incident	14-Mar-2004	Fred Bloggs	This bug affects the requirement	IN000005	► Edit
	Ability to delete existing books in the system	m Requirement	12-Mar-2004	Fred Bloggs	These two requirements are related	RQ000006	► Edit
	Cannot add a new book to the system	Incident	4-Nov-2003	Joe P Smith	Test Run: Ability to create new book	IN000007	

The requirements in this list are ones that a user has decided are relevant to the current one and has created a direct link between them. In the case of incidents, the association can be either due to the creator of an incident directly linking the incident to the requirement, or it can be the result of a tester executing a test-run and creating an incident during the test run. In this latter case, the check-box to the left of the association will be unavailable as the link is not editable.

Each association is displayed with the type of artifact (requirement vs. incident), name of the artifact being linked-to, the name of the person who created the association, and a comment that describes why the association was made. In the case of an indirect association due to a test run, the comment will contain the name of the test run.

In addition, when using SpiraPlan or SpiraTeam, you can select the checkbox marked "Include Source Code Revisions" and the system will also scan the source code repository for any revisions that are linked to this artifact. Since that can take be slower than accessing SpiraTeam, it is provided as an option that you can enable and disable:

Те	est Coverage *	Tasks	Custom Prop	ps *	Attachn	nents	H	listory	A	ssociations *		
> <u>A</u>	dd Delete Re	fresh Apply Filter 9	Clear Filters	Include	Source C	ode Revisio	ıs					
~	Artifact Name	▲▼		Artifact Ty	ype ▲▼	Created O	n ▲⊽	Created By	AV	Comment ▲▼	Artifact # ▲▼	Edit
				Any	▼			Any	▼			► Filter
	A rev0012			Revision		15-Jan-201	0	Fred Bloggs		The artifact was changed in this version to fix th	-	
	A rev0003			Revision		15-Jan-201	0	Fred Bloggs		The artifact was changed in this version to fix th	-	
	The book lis	ting screen doesn't so	<u>rt</u>	Incident		15-Mar-200)4	Fred Bloggs			IN000006	► Edit
	Ability to as	sociate books with diff	erent subjects	Requireme	ent	13-Mar-200)4	Fred Bloggs			RQ000007	► Edit
Sho	Show 15 🔻 rows per page 1 S of 1 🕨 🗏											

You can perform the following actions on an association from this screen:

- Delete removes the selected association to the other artifact. This will only delete the association, not the linked artifact itself.
- Refresh updates the list of associations from the server, useful if other people are adding associations to this requirement at the same time.
- > Apply Filter Applies the entries in the filter boxes to the list of associations
- Clear Filters Clears the current filter, so that all associations for the current requirement are shown.

Edit – Clicking the [Edit] button to the right of the associations allows you to edit the comment field inline directly on this screen.

To create a new association, simply click the <Add> hyperlink which will display the "Add New Association" popup dialog box:

t Updatod: 12/1/2003 12:00:00	AM Planned Ettert: Ltc a	
Add New Association		×
Please choose the type of a	rtifact that you want to add an association to:	
Incident ○ Requirement	t O Test Step	
Please choose the artifac	t that you want to add an association to:	
(a) Enter Artifact ID:	IN	
(b) Choose from list:	✓ Name	
-	Editing the date on a book is clunky	
	Doesn't let me add a new category	
	Quote handling issues throughout	
-	Permissions not updating when changed	
Comment:		
-	v	
-	> Ado	d Cancel

Once you have selected the appropriate artifact type, you will then be able to choose the specific artifact you want to link to. In all cases, you can choose the item from a scrolling selection box, or you can either enter the ID of the artifact directly (if known). In either case you can also add a comment that explains the rationale for the association.

5. Test Case Management

This section outlines how the use-case / test-case management features of SpiraTest® and SpiraTeam® can be used to develop the business use-cases for the system, which specify how the different pieces of functionality are expected to work in practice. In addition, these use/test-cases form the basis of the business specification of the system when associated with the underlying requirements matrix. Typically when starting a new project:

- > The requirements matrix is entered first
- Then the list of use-cases is developed to outline the key scenarios that need to supported to implement the requirement
- Then the use-cases are fleshed out into full test-cases by adding the detailed test-steps with the expected result and suggested sample-data
- Finally the tests are grouped into test-sets so that they can be assigned to users in batches for execution and tracking.

However when migrating existing projects into SpiraTeam®, you may need to migrate the test-case list first, and then add the supporting requirements matrix afterwards.

5.1. Test Case List

When you click on the Testing > Test Cases link on the global navigation bar, you will initially be taken to the test case list screen illustrated below:

	-	My Page Project Home Plan	ning Testin	g Tracking	Reporting				
est (ACTIVATIon and a second se	- 1 0-00000 - 00470						Role: Mana
Ins	sert	Source A Indent A Outdent - Show Level - V Refresh	Edit 🕄	Fools - Showhide col	lumns - 🔻 🏹	Filter			
ispla	aying	10 out of 14 test case(s) for this release			Di	splay data for: - All	Releases		۷
1	0	Test Case Name	Execution Status	Owner	Last Executed	Author	Active	Test #	Edit
D			- Any - 🔻	— Алу — 🔻 🔻		- Any - 🔻	- Any - 🔻	TC	► Edit
		E Eunctional Tests (5)		Fred Bloggs	1-Dec-2003	Fred Bloggs	Yes	TC000001	► Edit
٥	0	Ability to create new book	Passed	Fred Bloggs	1-Dec-2003	Fred Bloggs	Yes	TC000002	• Edit
8		Ability to edit existing book	Caution	Fred Bloggs	1-Dec-2003	Fred Bloggs	Yes	TC000003	► Edit
8	0	Ability to create new author	Failed	Joe P Smith	1-Dec-2003	Fred Bloggs	Yes	TC000004	► Edit
		Ability to edit existing author	Blocked	Joe P Smith	1-Dec-2003	Fred Bloggs	Yes	TC000005	► Edit
8	Г	Ability to reassign book to different author	Passed	Joe P Smith	1-Dec-2003	Fred Bloggs	Yes	TC000006	• Edit
		🗷 🧰 Regression Tests (2)			1-Dec-2003	Joe P Smith	Yes	TC000007	• Edit
8	T	🖻 🗁 <u>Scenario Tests</u> (2)		Joe P Smith		Joe P Smith	Yes	TC000010	• Edit
		Exception Scenario Tests (1)		Joe P Smith		Joe P Smith	Yes	TC000011	► Edit
8	T	Person loses book and needs to report loss	Not Run			Joe P Smith	Yes	TC000012	• Edit
		Adding new book and author to library	Not Run			Joe P Smith	Yes	TC000013	► Edit
8	1	E Common Tests (5)			1-Dec-2003	Fred Bloggs	Yes	TC000015	• Edit
	F	Den Up Web Browser	Not Run		1-Dec-2003	Fred Bloggs	Yes	TC000016	• Edit
3	1	Login to Application	Passed		1-Dec-2003	Fred Bloggs	Yes	TC000017	• Edit
	1	New Test Case (Ability to add new books to the sys	Not Run		and the second state of the	Fred Bloggs	Yes	TC000018	► Edit

The test case list consists of a hierarchical arrangement of the various test folders and test cases that the system being developed needs to be able to demonstrate. The structure is very similar to the folder structure in Microsoft Windows® Explorer, and users will find this very familiar and intuitive to use. When you create a new project, this list will initially be empty, and you will have to use the <Insert> button to start adding test folders and test cases to the system.

The list consists of test folders shown with a folder icon and in **bold-type**, and test cases that are shown with a document icon and a hyperlink. You can nest test folders and test cases under an existing test folder, but you cannot nest anything under a test case. All of the items in the list have a name, together with the most recent execution status (passed, failed or not-run), and owner, author, execution date,

active flag and test case number. Clicking on a test case's hyperlink will take you to the test case details page for the item in question (see section 5.2).

It is important to understand that only test cases are assigned a status themselves; the test folders instead display a test execution bar graph that illustrates the aggregate execution status of its child test-cases. Thus if the test folder contains two test cases, one of which passed, and one of which wasn't run, the graph will display 50% green and 50% gray.

To determine the exact aggregate test folder execution status information, position the mouse pointer over the bar-chart, and the number of tests in each of the execution statuses (passed, failed, not-run, blocked, caution) will be displayed as a "tooltip". Note that if you change the owner of a test folder, then all the child test cases will be assigned the same owner. This allows you to more easily associate entire folders to test cases to be executed by a specific user.

5.1.1. Insert

Hovering over the <Insert> button brings up a secondary menu that allows you to choose whether to insert a test case or a test folder (if you just click Insert it defaults to inserting a test case). In either case, it will insert the new test folder / test case *above* the currently selected item – i.e. the one whose checkbox has been selected, at the same level in the hierarchy. If you want to insert a new test case or test folder inside an existing folder, use the Insert > Child Test Case or Insert > Sub Folder option instead. If you insert a new test folder / test case without first selected an existing item from the list, the new test case will simply be inserted at the end of the list.

Once the new test folder / test case has been inserted, the item is switched to "Edit" mode so that you can rename the default name and choose an owner and/or author. Note that all new test cases are initially set with an execution status of "Not Run".

5.1.2. Indent / Outdent

Clicking on the <Indent> button indents all the test folders / test cases whose check-boxes have been selected. You cannot indent a test case or folder if it is *below* a test case, as test cases are not allowed to have child items. Clicking on the <Outdent> button de-indents all the test folders / test cases whose check-boxes have been selected.

5.1.3. Delete

Clicking on the <Delete> button deletes all the test cases and/or test folders whose check-boxes have been selected. If any of the items are test folders, then all the children are all deleted (whether test cases or folders). This behavior is similar to that in Microsoft Windows® Explorer.

5.1.4. Execute

Clicking on the <Execute> button executes all the test cases selected, together with all the test cases contained with any selected test folders. The test execution functionality of SpiraTeam® is explained in more detail in section 5.3.

5.1.5. Refresh

Clicking on the <Refresh> button simply reloads the test case list. This is useful as other people may be modifying the list of test cases at the same time as you, or executing specific test cases, and after stepping away from the computer for a short-time, you should click this button to make sure you are viewing the most current test case list for the project.

5.1.6. Edit

Each test case in the list has an <Edit> button display in its right-most column. When you click this button or just *double-click* on any of the cells in the row, you change the item from "View" mode to "Edit" mode. The various columns are made editable, and <Update> <Cancel> buttons are displayed in the last column:

6	ni	raTeam	Welcome, Fred Blog	gs <u>My Profile</u> <u>L</u>	og Out Ubrary Informat	ion System 💌				Help?	
9			My Page Proje	ct Home Plan	ning Testing	Tracking	Reporting				
Test	Cas	es Test Sets								Role: Manager	
🕂 Ins	sert	😂 Delete 🛛 💠 Indent 🔶	Dutdent Show Lev	el 🖌 🗞 Refre	esh 🕴 🖳 Edit 🗱 1	iools Show/hi	de columns 💌 🎽	Tilter			
Displ	ayin	g 9 out of 11 test case(s) for this rel	ease				Display data	for: All Relea	ases	~	
1	8	Test Case Name		Execution Status	Owner	Last Executed	Author	Active	Test #	Edit	
				Any 🔻	Any 🔻		Any 🔻	Any 🔻	TC	Filter	
		E Eunctional Tests (5)			Fred Bloggs	1-Dec-2003	Fred Bloggs	Yes	TC000001	► Edit	
	0	Ability to create new book	=1	Failed	None 🔻 🗐	4-Dec-2003	Fred Bloggs 🔻 🗐	Yes ▼ ≡↓		Update Cancel	
		Ability to edit existing book		Caution	Fred Bloggs 🔻	1-Dec-2003	Fred Bloggs 🔻	Yes 🔻			
	0	Ability to create new author		Failed	Joe P Smith	1-Dec-2003	Fred Bloggs	Yes	TC000004	► Edit	
		Ability to edit existing autho	t	Blocked	Joe P Smith	1-Dec-2003	Fred Bloggs	Yes	TC000005	► Edit	
		Ability to reassign book to d	lifferent author	Passed	Joe P Smith	1-Dec-2003	Fred Bloggs	Yes	TC000006	► Edit	
		Carter Engression Tests (2)				1-Dec-2003	Joe P Smith	Yes	TC000007	► Edit	
		🖃 🗁 Scenario Tests (2)			Joe P Smith		Joe P Smith	Yes	TC000010	► Edit	
		Exception Scenario Tests	(1)		Joe P Smith		Joe P Smith	Yes	TC000011	► Edit	
		Person loses book and ne	eds to report loss	Not Run			Joe P Smith	Yes	TC000012	► Edit	
		Adding new book and autho	r to library	Not Run			Joe P Smith	Yes	TC000013	► Edit	
		🖃 🗁 Common Tests (2)				1-Dec-2003	Fred Bloggs	Yes	TC000015	► Edit	
		Den Up Web Browser		Passed		1-Dec-2003	Fred Bloggs	Yes	TC000016	► Edit	
		Login to Application		Not Run		1-Dec-2003	Fred Bloggs	Yes	TC000017	► Edit	
Show	Show 15 Trows per page H < Displaying page 1 S of 1 >>>										

If you click <Edit> on more than one row, the <Update> and <Cancel> buttons are only displayed on the first row, and you can make changes to all the editable rows and then update the changes by clicking the one <Update> button. Also, if you want to make the same change to multiple rows (e.g. to change the owner of five test cases from "Fred Bloggs" to "Joe Smith"), you can click on the "fill" icon to the right of the editable item, which will propagate the new value to all editable items in the same column.

If you want to edit lots of items, first select their checkboxes and then click the [Edit] button on the same row as the Filters and it will switch all the selected items into edit mode.

When you have made your updates, you can either click <Update> to commit the changes, or <Cancel> to revert back to the original information. Alternatively, pressing the <ENTER> key will commit the changes and pressing the <ESCAPE> key will cancel the changes.

5.1.7. Show Level

Choosing an indent level from the 'Show Level' drop down box allows you to quickly and easily view the entire test case list at a specific indent level. For example you may want to see all test cases drilled-down to the *third* level of detail. To do this you would simply choose 'Level 3' from the list, and the test cases will be expanded accordingly

5.1.8. Show / Hide Columns

This drop-down list allows you to change the fields that are displayed in the test case list as columns for the current project. To show a column that is not already displayed, simply select that column from the list of "Show..." column names and to hide an existing column, simply select that column from the list of "Hide..." column names. This is stored on a per-project basis, so you can have different display settings for each project that you are a member of. The fields can be any of the built-in fields or any of the custom properties set up by the project owner.

5.1.9. Filtering

You can easily filter the list of test cases as illustrated in the screen-shot below:

	raTeam	ly Page	Project Home	e Pla	nning	Testing	Tracki	ng Reporting				
est Cases	s Test Sets Test Runs Auto	mation Hosts	29) 					an tri an			Role:	Project Own
hinsert	© Delete ⇒ Indent ♦ Out	lent - Show	Level 🔻	Refres	h 🔂 Edit	(ii) Tools	- Show/hid	le columns - 🔻 🔻	Trilter			
isplaying	6 out of 11 test case(s) for this release								Display data for:	- Al Releases		•
¥ 0	Test Case Name			Ð	ecution Status	Owner		Last Executed	Author	Active	Test #	Edit
				-	Any – 🔻 🔻	(None)	•		- Any - 🔻	- Any - 🔻	TC	► Edit
1	E P Regression Tests (2)							1-Dec-2003	Joe P Smith	Yes	TC000007	• Edit
21	Book management			Pa	issed			1-Dec-2003	Joe P Smith	Yes	TC000008	• Edit
F1.	Author management			Pa	issed			1-Dec-2003	Joe P Smith	Yes	TC000009	► Edit
8	🖻 📂 Scenario Tests (2)			11		Joe P Sr	nith		Joe P Smith	Yes	TC000010	► Edit
13	Exception Scenario Tests (1					Joe P Sr	nith		Joe P Smith	Yes	TC000011	• Edit
	Person loses book and need	s to report loss		No	t Run				Joe P Smith	Yes	TC000012	Edit
8	Adding new book and author t	library		No	t Run				Joe P Smith	Yes	TC000013	+ Edit
23	E Common Tests (2)							1-Dec-2003	Fred Bloggs	Yes	TC000015	► Edit
21	Open Up Web Browser			No	t Run			1-Dec-2003	Fred Bloggs	Yes	TC000016	• Edit
23	Login to Application			Pa	issed			1-Dec-2003	Fred Bloggs	Yes	TC000017	+ Edit

To filter the list by any of the displayed columns, you either choose an item from the appropriate dropdown list or enter a free-text phrase (depending on the type of field) then click <Filter> or press the <ENTER> key to apply the different filters. Note that the name field is searched using a "LIKE" comparison, so that searching for "database" would include any item with the word database in the name. The other freetext fields need to be exact matches (e.g. dates, test case numbers). In the screen-shot above, we are filtering on Owner = (None).

In addition, if you have a set of filters that you plan on using on a regular basis, you can choose the option Filter > Save Filter to add the current filter to the list of saved filters that appear on your 'My Page'. The list of saved filters can also be retrieved by clicking Filter > Retrieve Filter:

sni	aTeam	Welcome, Fred Bloggs !	Ny Profile Log Out	Library Information Sys	stem 🔻				Help?
Spil		My Page Project Hor	ne Planning	Testing	Tracking Re	eporting			
Test Case	es <u>Test Sets</u>							F	Role: Manager
🕂 Insert	🗱 Delete 🛛 💠 Indent 🔶	Dutdent Show Level V	🗞 Refresh 🛛 🖓 B	Edit 🇱 Tools 🔤	Show/hide columns	T Filter			
Displaying	4 out of 11 test case(s) for this re	elease				Display Y Apply Filt	er 5		•
V 8	Test Case Name		Save Filter		ast Executed	Author 🗱 Clear Filt	er	Test #	Edit
			Please choose a nam	e for this filter:		Any Detrieur		TC	Filter
	E Punctional Tests (5)				-Dec-2003	Fred B Save Filte		TC000001	► Edit
	Ability to reassign book	to different author			-Dec-2003	Fred Bl	<u>21</u>	TC000006	► Edit
	E Pagression Tests (2)			> Save Cancel	-Dec-2003	Joe P Smith	Yes	TC000007	► Edit
	Book management		Passed		1-Dec-2003	Joe P Smith	Yes	TC000008	► Edit
	Author management		Passed		1-Dec-2003	Joe P Smith	Yes	TC000009	► Edit
	🖻 🗁 Common Tests (2)				1-Dec-2003	Fred Bloggs	Yes	TC000015	► Edit
	Den Up Web Browser		Passed		1-Dec-2003	Fred Bloggs	Yes	TC000016	► Edit
Show 15	rows per page						M A	Displaying page 1	In of 1 ► ►
r Insert	😫 Delete 🛛 💠 Indent 🔶	<u>Outdent</u> <u>Execute</u>							

5.1.10. Copying Test Cases

To copy one or more test cases, simply select the check-boxes of the test cases you want to copy and then select the Edit > Copy menu option. This will copy the current test case selection to the clipboard. Then you should select the place where you want the test cases to be inserted and choose the Edit > Paste option.

The test cases will now be copied into the destination location you specified. The name of the copied test cases will be prefixed with "Copy of..." to distinguish them from the originals.

5.1.11. Moving Test Cases

To move test cases in the hierarchy, there are two options:

Click on the icon the test case/folder you want to move and then drag the icon to the location you
want it moved. The background of the destination location will change as the icon is dragged over
it to illustrate where it will be inserted:

sp	iraieam	elcome, System Administrator <u>My</u> Page Project Home Pla			ormation System			Help?		
My Page Project Home Planning Testing Tracking Reporting Test Cases Test Sets Role: Project Owner										
	🗘 Insert 🗱 Detete 🔶 Indent 💠 Outdent Show Level 👻 🖏 Refresh 🗰 Tools 🗁 Execute Show/hide columns 💌 🏹 Clear Filters									
Displayi	ing 9 out of 13 test case(s) for this release				Display data for:	All Releases		~		
~	Test Case Name	Execution Sta	atus Owner	Last Executed	Author	Active	Test #	Edit		
		Any	🗸 Any 👗		Any 🔻	Any 🔻	TC	► Filter		
	🗆 🗁 Functional Tests (5)		Fred Bloggs	1-Dec-2003	Fred Bloggs	Yes	TC000001	► Edit		
	Ability to create new book	Passed	Fred Bloggs	1-Dec-2003	Fred Bloggs	Yes	TC000002	► Edit		
	Ability to edit existing author	Caution	Fred Bloggs	1-Dec-2003	Fred Bloggs	Yes	TC000003	► Edit		
	Ability to create new author	Failed	Joe P Smith	1-Dec-2003	Fred Bloggs	Yes	TC000004	► Edit		
	Ability to edit existing author	Blocked	Joe P Smith	1-Dec-2003	Fred Bloggs	Yes	TC000005	► Edit		
	Ability to reassign book to different	nt author Passed	Joe P Smith	1-Dec-2003	Fred Bloggs	Yes	TC000006	► Edit		
	E P Regression Tests (2)			1-Dec-2003	Joe P Smith	Yes	TC000007	► Edit		
	Book management	Passed		1-Dec-2003	Joe P Smith	Yes	TC000008	► Edit		
	Author management	Passed		1-Dec-2003	Joe P Smith	Yes	TC000009	► Edit		
	🗉 🛅 <u>Scenario Tests</u> (2)		Joe P Smith		Joe P Smith	Yes	TC000010	► Edit		
	E Common Tests (2)			1-Dec-2003	Fred Bloggs	Yes	TC000015	► Edit		
	Den Up Web Browser	Not Run		1-Dec-2003	Fred Bloggs	Yes	TC000016	► Edit		
	Login to Application	Passed		1-Dec-2003	Fred Bloggs	Yes	TC000017	► Edit		
Show	15 v rows per page					i⊲ ⊲ Dis	playing page 1	S of 1 ⊫ ⊫		
🕂 Inser	t 🗱 Delete 🖒 Indent 💠 Outdent	Execute								

Once you have the test case/folder positioned at the correct place that you want it inserted, just release the mouse button and the test case list will be refreshed, with the item moved to the desired location. To move multiple items simply select their checkboxes and then drag-and-drop one of the selected items.

 Alternatively you can simply select the check-boxes of the test cases you want to move and then select the Edit > Cut menu option. This will cut the current test case selection to the clipboard. Then you should select the place where you want the test cases to be inserted and choose the Edit > Paste option. The test cases will now be moved into the destination location you specified.

5.1.12. Exporting Test Cases

To export a test case or set of test cases from the current project to another project in the system, all you need to do is select the check-boxes of the test case(s) you want to export and then click Tools > Export Tests. This will then bring up a list of possible destination projects:

		My Page Project Ho	me Planning	Testing Tracking	Reporting				
lest	Case	No. 1. Construction of the						- 6	Role: Manag
)- In	sert	Source Indent	Refresh DE	dit Tools - Showihide of	columns - 🔻 🏹	Filter			
Displ	aying	10 out of 14 test case(s) for this release	Export Items		Di	splay data for: - All	Releases		•
1	6	Test Case Name	Export items		Last Executed	Author	Active	Test #	Edit
0			Please select the proje	ct you want to export to: 🔽		- Any - 🔻	- Any - 🔻	TC	► Edit
٥		E Eunctional Tests (5)	Select Project	•	1-Dec-2003	Fred Bloggs	Yes	TC000001	► Edit
1	0	Ability to create new book			1-Dec-2003	Fred Bloggs	Yes	TC000002	► Edit
1		Ability to edit existing book	> Export Cancel		1-Dec-2003	Fred Bloggs	Yes	TC000003	► Edit
	8	Ability to create new author			1-Dec-2003	Fred Bloggs	Yes	TC000004	+ Edit
		Ability to edit existing author	Blocked	Joe P Smith	1-Dec-2003	Fred Bloggs	Yes	TC000005	► Edit
8		Ability to reassign book to different author	Passed	Joe P Smith	1-Dec-2003	Fred Bloggs	Yes	TC000006	+ Edit
		Regression Tests (2)			1-Dec-2003	Joe P Smith	Yes	TC000007	► Edit
8	Г	E Scenario Tests (2)		Joe P Smith		Joe P Smith	Yes	TC000010	+ Edit
		E Exception Scenario Tests (1)		Joe P Smith		Joe P Smith	Yes	TC000011	► Edit
		Person loses book and needs to report loss	Not Run			Joe P Smith	Yes	TC000012	+ Edit
		Adding new book and author to library	Not Run			Joe P Smith	Yes	TC000013	► Edit
8	T	E Common Tests (5)			1-Dec-2003	Fred Bloggs	Yes	TC000015	+ Edit
	F	Dpen Up Web Browser	Not Run		1-Dec-2003	Fred Bloggs	Yes	TC000016	► Edit
3	T	Login to Application	Passed		1-Dec-2003	Fred Bloggs	Yes	TC000017	+ Edit
m	1	New Test Case (Ability to add new books to the sys	Not Run			Fred Bloggs	Yes	TC000018	• Edit

Once you have chosen the destination project and clicked the <Export> button, the test cases will be exported from the current project to the destination project. Any file attachments will also be copied to the destination project along with the test cases.

5.1.13. Adding Test Cases to a Release, Test Set or Requirement

To quickly add a series of test cases to a Release, Test Set or Requirement, all you need to do is select the check-boxes of the appropriate test cases and then click Tools > Add to Release / Test Set / Requirement. This will then bring up a dialog box displaying either a list of available releases, test sets or requirements (depending on which option was chosen):

SpiraTest Welcome, Fred Bloggs	My Profile Log Out Library Information System	•				Help?
My Page Project H	ome Planning Testing	Tracking	Reporting			
Test Cases Test Sets					R	ole: Manager
Insert Source → Indent Outdent ··· Show Level ···· Show Level ····· Show Level ···· Show Level ····· Show Level ······ Show Lev	✓ Refresh Xiiii Tools	Show/hide of	columns 🔹 🍸	Clear Filters		
Displaying 7 out of 7 test case(s) for this release		1	Display data for:	1.0.1.0 - Library S	System Release	1 SP1 🔹
✓ 🕘 Test Case Name	Add To Test Set	Executed	Author	Active	Test #	Edit
	Discourse a lost the test and use week to add to	2003 🔳	Any 🔻	Any 🔻	TC	Filter
E De Functional Tests (5)	Please select the test set you want to add to:	c-2003	Fred Bloggs	Yes	TC000001	► Edit
Ability to create new book	Select TestSet	-2003	Fred Bloggs	Yes	TC000002	► Edit
Ability to edit existing book	Select TestSet Testing Cycle for Release 1.0	-2003	Fred Bloggs	Yes	TC000003	► Edit
Ability to create new author	Tresting Cycle for Release 1.1	-2003	Fred Bloggs	Yes	TC000004	► Edit
Ability to edit existing author	B Regression Testing for Windows XP Regression Testing for Windows Vista	ec-2003	Fred Bloggs	Yes	TC000005	► Edit
Ability to reassign book to different author	P Testing New Functionality -De	ec-2003	Fred Bloggs	Yes	TC000006	► Edit
🖂 🖻 🎦 Regression Tests (2)	Exploratory Testing	ec-2003	Joe P Smith	Yes	TC000007	► Edit
Book management	Passed 1-De	ec-2003	Joe P Smith	Yes	TC000008	► Edit
Author management	Not Run 1-De	ec-2003	Joe P Smith	Yes	TC000009	► Edit
🗐 🖻 🗁 Common Tests (0)	1-De	ec-2003	Fred Bloggs	Yes	TC000015	► Edit
Insert X Delete						

Once you have chosen the destination release / test set / requirement, clicking <Add> will add the selected test cases to the destination release / test set / requirement.

5.1.14. Viewing the Test Status for a Release

By default, when you view the list of test case cases, it will display an aggregate status for all releases of the project. I.e. the test list will include all the test cases in the system (regardless of which release they apply to) and the execution status will reflect the most recent test run – regardless of which release it was for.

To change the test case list to just display test cases and execution status for a particular release, simply change the release selected in the drop-down list located below the toolbar (on the right-hand side) from "Any" to a specific release:

5	nii	Welcome, Fred Bloggs M	ly Profile Administr	ration Log Out Lib	rary Information System	V			Help?
3		My Page Project Hom	e Planning	Testing	Tracking Rep	orting			
Test C	ase	es Test Sets						Ro	ole: Manager
🕂 Ins	<u>ert</u>	Show Level Vertex Show Level Vertex	🗞 Refresh 🛛 🗜) <u>Edit 🍀 Tools</u> 🔤	Show/hide columns	Filter			
Displa	ying	7 out of 7 test case(s) for this release				Display data for: 1.0.	1.0 - Library System Re	elease 1 SP1	•
~	8	Test Case Name	Execution Status	Owner	Last Executed	Author	Active	Test #	Edit
			Any 🔻 🔻	- Any 🔻		Any 🔻	- Any - 🔻	TC	 Filter
		🖻 🗁 Functional Tests (5)		Fred Bloggs		Fred Bloggs	Yes	TC000001	► Edit
	0	Ability to create new book	Passed	Fred Bloggs	1-Dec-2003	Fred Bloggs	Yes	TC000002	► Edit
		Ability to edit existing book	Not Run	Fred Bloggs		Fred Bloggs	Yes	TC000003	► Edit
	0	Ability to create new author	Not Run	Joe P Smith		Fred Bloggs	Yes	TC000004	► Edit
		Ability to edit existing author	Blocked	Joe P Smith	1-Dec-2003	Fred Bloggs	Yes	TC000005	► Edit
		Ability to reassign book to different author	Passed	Joe P Smith	1-Dec-2003	Fred Bloggs	Yes	TC000006	► Edit
		E Egression Tests (2)				Joe P Smith	Yes	TC000007	► Edit
		Dook management	Passed		1-Dec-2003	Joe P Smith	Yes	TC000008	► Edit
		Author management	Not Run			Joe P Smith	Yes	TC000009	► Edit
Show	15	rows per page					i⊲ ⊲ Disp	playing page 1	Sof 1 ► ►
🕂 Ins	ert	Selete							

As illustrated in the example above, when the drop-down list is changed to select a specific release, the list of test cases is filtered to just those mapped to the release in question. In addition, the execution status for the test releases will only reflect test runs for that specific release (and any child iterations if applicable). As can be seen in our example, many test cases that have been run for other releases now show the "Not Run" status since they've not been run for this specific release.

As a shortcut, when you select a specific release for viewing, subsequent execution of any of the test cases via the Tools > Execute menu option will default the test run to the selected release.

5.1.15. Printing Items

To quickly print a single test case, test folder or list of test cases you can select the items' checkboxes and then click Tools > Print Items. This will display a popup window containing a printable version of the selected items.

5.1.16. Right-Click Context Menu

SpiraTeam® provides a shortcut – called the *context menu* - for accessing some of the most commonly used functions, so that you don't need to move your mouse up to the toolbar each time. To access the context menu, right-click on any of the rows in the test case list and the following menu will be displayed:

T-5					
Ability to create new book	Open Item	Passed	Fred Bloggs	1-Dec-2003	Fred Bloggs
Ability to edit existing book	🔀 Open in New Tab	Caution	Fred Bloggs	1-Dec-2003	Fred Bloggs
Ability to create new author	New Test Case	Failed	Joe P Smith	1-Dec-2003	Fred Bloggs
Ability to edit existing author	New Folder	Blocked	Joe P Smith	1-Dec-2003	Fred Bloggs
Ability to reassign book to dif	Edit Items	Passed	Joe P Smith	1-Dec-2003	Fred Bloggs
⊞ 🛅 <u>Regression Tests</u> (2)	🗱 Delete			1-Dec-2003	Joe P Smith
⊡ 🗁 <u>Scenario Tests</u> (2)	➡ Indent		Joe P Smith		Joe P Smith
🗆 🗁 Exception Scenario Tests (*			Joe P Smith		Joe P Smith
Person loses book and nee		Not Run			Joe P Smith
Adding new book and author	다 Cut Items 다 Paste Items	Not Run			Joe P Smith
E Common Tosts (5)				1 Dec 2003	Fred Blogge

You can now choose any of these options as an alternative to using the icons in the toolbar.

5.2. Test Case Details

When you click on a test case item in the test case list described in section 5.1, you are taken to the test case details page illustrated below:

spiraTeam	Welcome, Fred B	loggs <u>My Profile</u>	Administration	Log Out Library In	formation System	V			Help?
spiratean	My Page Pi	oject Home F	lanning	Testing Tra	king Repo	orting			
Test Cases > Test Case Details <u>Test Se</u>	ts Test Runs	Automation Hosts							Role: Manager
<< Back to Test List	💾 Save 🛛 🗗	Copy 🗞 <u>Refresh</u>	🗱 Delete	⊳ Execute 🖨	Print 🛛 🖂 Emai	I 🐐 Subscribe			
Current Filter	Test Case: 🗄 /	Ability to create n	ew book [TC:0	000021					
E Punctional Tests	Name*:	Ability to create ne	-						
Ability to create new book	Description:	- Font	▼ Size 1	B <i>I</i> <u>U</u> ≣≣		= T ₂ / ₂ - ∞]			
Ability to create new author		Tests that the use	r can create a new	book in the system					
Ability to edit existing author Ability to reassign book to different									
🗉 🗁 Regression Tests									
Scenario Tests Exception Scenario Tests	Author*:	Fred Bloggs	V	Est. Dur.:	0.2	hours			
Person loses book and needs to I	Owner:	Fred Bloggs		Creation	Date: 12/1/20	03 12:00:00 AM			
Adding new book and author to libr	Priority:	1 - Critical	V	Execution	Status: Passe	d			
Open Up Web Browser	Active*:	Yes 🔻		Last Exe	uted: 12/1/20	03 12:00:00 AM			
Login to Application	Test Steps *	Req. Coverage *	Automation	Comments	Custom Props *	Test Runs 🕷	Releases *	Attachments *	History #

This page is made up of three areas; the left pane is the navigation window, the upper part of the right pane contains the test case detailed information itself, and the bottom part of the right pane contains related information about the test case.

The navigation pane consists of a link that will take you back to the test case list, as well as a list of the peer test case to the one selected. This latter list is useful as a navigation shortcut; you can quickly view the detailed information of all the peer test cases by clicking on the navigation links without having to first return to the test cases list page. The navigation list can be switched between three different modes:

- The list of test cases matching the current filter
- The list of all test cases, irrespective of the current filter
- The list of test cases assigned to the current user

The top part of the right pane allows you to view and/or edit the details of the particular test case. You can edit the various fields (name, description, etc.) and once you are satisfied with them, simply click either the <Save> or <Save and New> button at the top of the page to commit the changes. In addition you can delete the current artifact by choosing <Delete>, discard any changes made by clicking <Refresh> or print it by clicking <Print>.

Using the <Email> button on the toolbar, you can send an email containing details of the test case to an email address or another user on the system:

Email this artifact	0:	×
Project User:	Fred Bloggs Select a user in the project to send to.	
© Email Addresses:	A list of email addresses, separated by ;	
Message Subject:	Leave blank for default.	
		Send Cancel

You can specify the subject line for the email, and either a list of email addresses, separated by semicolons, or an existing project user .The content of the email is specified in the System Administration – Notification Templates.

The lower part of the right pane can be switched between six different views by clicking the appropriate tab. Initially the pane will be in "Test Steps" mode, but it can be switched to "Requirements Coverage", "Automation", "Comments", "Custom Properties", "Test Runs", "Releases", "Attachments" and "History" modes if so desired. Each of the views is described separately below. In addition there is a shortcut link "Execute This Test" that allows you to execute this test (see section 5.3) without having to return to the Test Case list.

5.2.1. Test Steps

This view displays the name of the test case together with all the defined test steps that a tester would need to perform to verify that the functionality works as expected. The list of test steps displays the position number, the description, the expected result, some suggested sample data and the most recent execution status of the individual test step:

Т	est	Steps *	Req Coverage *	Custom Props *	Test Runs *	Releases *	Attachments *	History *		
> <u>Ir</u>	isei	rt Step Ins	ert Link Delete C	opy <u>Refresh</u>	- Show/hide columns -	Edit P	arameters			
	U	Step #	Test Step Descript	ion	Expected Re	esult	Sample Data	a Statu	s Step Id	Edit
		🕲 Step 1	Call Login to Applic	ation' (TC17) 皆				N/A	TS000001	► Edit
		1 Step 2	User clicks link to c	reate book	User taken to	first screen in wizard		Pass	ed TS000002	► Edit
	U	🖺 <u>Step 3</u>	User enters books n clicks Next	User enters books name and author, then clicks Next		User taken to next screen in wizard		liam Pass	ed TS000003	► Edit
		🖺 <u>Step 4</u>	User chooses book' from list	s genre and sub-genre	e User sees so information	reen displaying all ent	ered Play, Tragedy	Pass	ed TS000004	► Edit
		1 Step 5	User clicks submit I	button	Confirmation	screen is displayed		Pass	ed TS000005	► Edit
Sho	N 1	15 🔻 rows	per page					ৰ ৰ Displayi	ng page 1	S of 1 ► ►
To ch	ang	ge the order	of the test steps, ple	ase click on the test	step/link icon and d	rag it to the appropriat	e place in the list.			

Note: Test steps that are marked with a hyperlink and test case icon (e.g. "Call Login to Application" in the screen shot above) are in fact *linked test cases*. Linked test cases are a useful way of reusing existing test steps from other test cases. For example if you want to have a set of steps be in more than one test case (e.g. a login step) then you would create a separate test case just containing these steps, then have all the other test cases just link to it. This avoids the need to have duplicate test steps throughout the project.

In addition, if you click on the step number hyperlink (e.g. Step 2) you will be taken to the test step details page which allows you to perform additional editing of a specific test step as well as attach documents, associate pre-existing incidents and view the change history.

5.2.1.1. Insert Step

Clicking on the <Insert Step> button inserts a new test step *before* the currently selected (by means of the check-box) test step. Clicking the <Insert Step> button without selecting a test step will insert a new step at the end of the list. When a new step is inserted, the fields are displayed in "Edit" mode, so the description, expected result and sample data fields are editable, allowing you to enter the appropriate data:

Test Steps *	Req Coverage * Custom Props *	Test Runs * Releases	Attachments * Histo	ory *	
<u>Insert Step In</u>	sert Link Delete Copy Refresh	Edit Parameters			
🛛 🔍 Step #	Test Step Description	Expected Result	Sample Data	Status Step Id	Edit
🗌 🔊 🖄 Step 1	Call 'Login to Application' (TC17)			N/A TS00000	1 ► Edit
Step 2	User clicks link to create book	User taken to first screen in wizard		Passed TS00000	2 ► Edit
0 🔮 <u>Step 3</u>	User enters books name and author, then clicks Next	User taken to next screen in wizard	Macbeth, William Shakespeare	Passed TS00000	3 ► Edit
Step 4	User chooses book's genre and sub- genre from list	User sees screen displaying all entered information	Play, Tragedy	Passed TS00000	4 ► Edit
Step 5	User clicks submit button	Confirmation screen is displayed		Passed TS00000	5 FEdit
Step 6	B Z U T ₂ (∞ □ <> 2	B Z U T₂ @		Not Run	 ► Insert ► Update ► Cancel

Once you have entered the necessary information, you can click either <Insert> or <Update> to commit the changes. If you choose <Insert>, another new row will be inserted which is useful if you intend on entering lots of rows at once, whereas clicking <Update> will simply commit the current row only.

5.2.1.2. Insert Link

Clicking on the <Insert Link> button brings up the following dialog box that allows you to choose the test case to be inserted:

72005
×

You need to then select the name of the test case you want to insert as a link. If the test case has declared parameters (see the section on Parameters below for more details) you will be given a list of parameters that needed to be filled out.

You need to fill out the values of the parameters for the linked test case and then click the <Add> button to complete the operation. The system will then insert the test case as a link just before the currently selected test step. If no existing test step was selected, the link will be added at the end of the test step list.

5.2.1.3. Delete

Clicking on the <Delete> button deletes the currently selected test steps, and reorders the test step position numbers to close any gaps in numbering.

5.2.1.4. Copy

Clicking on the <Copy> button makes a copy of the current test step or linked test case and inserts the copied version directly above the original one.

5.2.1.5. Refresh

Clicking on the <Refresh> button simply reloads the list of test steps. This is useful if other people are making changes to the test list and you want to make sure that you have the most current version.

5.2.1.6. Show / Hide Columns

By default the test step list screen will display the Description, Expected Result and Sample Data fields. However the Expected Result and Sample Data fields are optional and can be hidden if necessary to make more space. If you have configured custom properties for test steps, you can use the Show/Hide features to display one or more of your custom properties instead. These fields will then be editable in this grid-view.

5.2.1.7. Editing Test Steps

To modify an existing Test Step you simply need to click on the <Edit> button to the right of the step, or just *double-click* on the cells in the row. That will switch the selected row into Edit mode. The various columns are turned into editable text-boxes, and <Update> <Cancel> buttons are displayed in the last column:

Test	Steps *	Req Coverage #	Custom Props *	Test Runs *	Release	s *	Attachments *	Histo	ry *		
> Inser	> Insert Step Insert Link Delete Copy Refresh			Show/hide columns	▼	<u>Edit</u>	Parameters				
0	Step #	Test Step Descripti	ion	Expected Result		S	ample Data		Status	Step Id	Edit
	🕲 Step 1	Call Login to Applica	ation' (TC17) 🖹						N/A	TS000001	► Edit
	🖺 <u>Step 2</u>	B Z U T kor User clicks link to co book		B Z U T₂ ∞ Σ User taken to first scre in wizard			8 ℤ Щ Т₂ 🖬 🛟 [2	Passed		 ▶ Update ▶ Cancel
0	1 Step 3	User enters books not then clicks Next	ame and author,	User taken to next scr	een in wizar	d M	Macbeth, William Shakespeare		Passed	TS000003	► Edit
	1 Step 4	User chooses book's genre from list	s genre and sub-	User sees screen displaying all entered information		P	Play, Tragedy		Passed	TS000004	► Edit
	🛍 <u>Step 5</u>	User clicks submit b	outton	Confirmation screen is	displayed				Passed	TS000005	► Edit
Show 1	Show 15 ▼ rows per page I S of 1 ► ►										

If you click <Edit> on more than one row, the <Update> and <Cancel> buttons are only displayed on the first row, and you can make changes to all the editable rows and then update the changes by clicking the one <Update> button. Also, if you want to make the same change to multiple rows, you can click on the "fill" icon to the right of the editable item, which will propagate the new value to all editable items in the same column. When you have made your updates, you can either click <Update> to commit the changes, or <Cancel> to revert back to the original information.

5.2.1.7. Editing Test Steps

To modify an existing Test Link you simply need to click on the <Edit> button to the right of the step, or just click on the cells in the row. That will open up the special dialog box used for editing the parameter values associated with a specific linked test case:

_	Edit Linked	Test Case Parameters	×
	Please fill o	out the parameters for this linked test case:	
	login:	librarian	
-	password:	password1	
	<	×	
e		> Update Cancel)

This allows you to edit the parameters being passed from the current test step to the linked test case without having to recreate the test link from scratch. To commit the change click <Update> to close the dialog box, or click <Cancel> to revert back to the original information.

5.2.1.9. Moving Test Steps

To move test steps in the list, click on the icon the test step/link you want to move and then drag the icon to the location you want it moved. The border of the destination location will change as the icon is dragged over it to illustrate where it will be inserted.

5.2.1.10. Parameters

Test cases can have parameters associated with them. This enables one test case to be called several times by another test case (as a link) and have different parameters passed in each case, making the operation different. E.g. you could have a generic "login to application" test case that others call as an initial step, which could be provided with different login information depending on the calling test case.

To view / change the parameters associated with the current test case, click on the <Parameters> icon in the toolbar and the list of current parameters will be displayed:

	Edit Test Case F	Parameters			×
	The following param	eters have been defined f	or this test case:		
	Name	Default Value	Operations	1	
	\${login}		Copy To Clipboard Delete		
	\${password}		Copy To Clipboard Delete		
				~	1
	<			>	
	Add a new parameter	er to this test case:			
	Name:*				
-	Default Value:				
E			► Add	► Cancel	
ι					

The list of existing parameters is displayed in a grid, followed by the option to add a new parameter and default value (used when the test case is run directly rather than being called by another test case). You can delete an existing parameter and also copy the parameter token to your computer's clipboard. The latter option is useful so that you can insert the parameter token (in the format *\${parameter name}*) in the

test step description, expected result or sample data fields and have it converted into the parameter value during test execution.

5.2.2. Requirements Coverage

This view displays the name of the test case together with the requirements coverage information for the test case in question:

Test Steps *	Req Coverage *	Custom Props	* Test Run	s *	Release	s *	Attachments *	His	tory *
Available Requi	rements:			Requ	uirements C	overage			
✓ Name				~	Test #	Name			Status
🔲 🗉 🗐 Funct	ional System Require	ements 🛕			RQ000004	🛅 <u>Abil</u>	ity to add new books	s to th	Completed
🔲 🗉 🖻 Onli	ne Library Manageme	ent Syst	Add >						
E Ba	ok Management	≡	Add						
□ ề ,	Ability to add new boo	oks to th	Remove <						
D D/	Ability to edit existing	books	Remove All						
🗆 🗎 /	Ability to delete existi	ing boo							
🗆 🗎 /	Ability to associate b	ooks wit							
□	Ahility to accordate h	noke wit							
> Create Require	ement From This Te	est Case 🏝							
To add requirement	coverage box indicate its to this test case, Remove] and [Remov	choose from th	e list above and c	lick [Ad	d].				

The pane consists of two lists of requirements, the one on the left being the complete hierarchical list of requirements in the project. The right box (which will initially be empty) contains the list of requirements mapped to this test case. The requirements in this box include columns for their ID, name and status. Hovering the mouse over the names of the requirements in either box will display a "tooltip" consisting of the requirement name, place in the hierarchical structure and a detailed description. Clicking on the hyperlinks in right-hand box will jump you to the requirement details screen for the requirement in question (see section 4.2).

To change the coverage for this test case, you use the buttons (Add, Remove, Remove All) positioned between the two list-boxes. The <Add> button will move the selected requirements from the list of available on the left to the list of mapped on the right. Similarly the <Remove> and <Remove All> buttons will remove either the selected or all the requirements from the right list-box and add them back to the left list-box.

Finally, as a shortcut you can click the "Create Requirement from This Test Case" link to create a new requirement in the list of covered requirements that will be automatically linked to this test case. This is useful when you have created a new test case and want to generate an initial placeholder requirement to be fleshed-out later.

5.2.3. Automation

The Automation tab displays any automated test scripts associated with the current test case. There are three types of automated test:

- Attached this is when SpiraTeam physically stores the test script as an attachment in the system. This is only available for test automation tools that store their test scripts as plain text files. Examples of such tools are Selenium-RC and Squish.
- Linked this is when SpiraTeam stores the location of the test script stored on the automation host itself or on an external network drive.

• **Repository** – This is a special option only available when using Rapise[™], the test automation system from Inflectra. This allows you to store an entire folder of automated test script files in SpiraTeam and have them linked to the test case.

The screenshot below illustrates a sample Rapise automated test script attached to a test case:

Test Steps *	Req. Coverag	ge * Automatic	n * Comments	Custom Props *	Test Runs *	Releases *	Attachments *	History *
This section defines	the automate	ed test script assoc	iated with this test ca	se:				
Automation Engi	ine*: Rapi	ise	▼					
Script Type*:	A (Attached 💿 Linked	Repository					
Filename*:	R C	CreateNewBook\Cre	ateNewBook.sstest					
Document Type*	: Func	ctional Specification	V					
Document Folde	er*: Root	t Folder	▼					
Version:	v 1.0	0						
						> Edit F	Parameters	
Test Script*:								

The automation screen includes the following fields that you should populate when using SpiraTeam® to store an automated test script:

- Automation Engine this should be the name of the test automation engine that the test script should be executed with. This list is populated by a system administrator using the administration section of the application (as described in the SpiraTeam Administration Guide)
- Script Type This should be set to either "attached" or "linked". If you choose to attach the test script, the large text box at the bottom will be enabled, allowing you enter/edit the test script directly in SpiraTeam. If you choose linked, the test script is stored externally and SpiraTeam just stores a reference to it. The "repository" option is never selectable within SpiraTeam and will be automatically set by Rapise when it attaches a test script to the test case.
- Filename If you are attaching the test script to the test case then this field just needs to contain the filename of the test script (no folders or path needed), whereas if you are choosing to link the test script, you need to follow the exact format that will be expected by the test automation engine. For details, please refer to the specific test automation engine in the SpiraTest/Team Automated Test Integration Guide.
- Document Type (SpiraTeam only) This should be set to the document type that you want the test script associated with.
- Document Folder (SpiraTeam only) This should be set to the document folder that you want the test script to be stored in.
- > Version This should contain the version number of the test script.
- Test Script If you are attaching a test script, this should contain the actual program code for executing the test script. The language and syntax will be dependent on the test automation engine being used. If you are linking the test script, this section will be disabled.
- Parameters You can enter the various test case parameters by clicking on this hyperlink. Most of the automation tools that SpiraTeam integrates with will support the passing of parameter values from SpiraTeam to the automation tool.

5.2.4. Comments

The Comments tab allows users to add and view discussions related to the Test Case:

Test Steps *	Req Coverage	Automation	Comments	Custom Props *	Test Runs *	Releases *
To add a new comme	ent to this requiremer	nt, please enter it bel	ow and click the [Sa	ve] button:		
Font	- Size	▼ B <i>I</i> <u>U</u>	│ ⋶ ⋷ ⋷ │┊⋸ ┊ ═	健健 12-02	@ 🚺 🗔 🔷 💆	
Existing Com	ments					
Lineary com						

Existing comments are displayed by date underneath the text box. To add a comment to the Test Case, enter your text into the textbox, then click the Save button to save.

5.2.5. Custom Properties

In this mode, the main pane displays any custom properties that the project owner has defined for test cases. To learn more about how to setup and configure custom properties for a project, please refer to the *SpiraTest Administration Guide*. Assuming that custom properties have been defined for your project, you will see a list of optional parameters that can be set on the test case. These can be either freetext or drop-down-lists. In the example below, you can enter a URL and/or Test Type.

Test Steps *	Req Coverage *	Custom Props *	Test Runs *	Releases *	Attachments *	History *
The following are	the custom properties o	f this artifact:				
-					_	
URL:	http://www.libraryrefere	nces.org		2		
					7	
Test Type:	Functional Test]	
	r ancionar rest				J	

Once you are satisfied with the values for the custom properties, simply click [Save] or [Save and New] to commit the changes.

5.2.6. Test Runs

This view displays the name of the test case together with a list of the previous execution runs that the test case has been put through. Each test run is listed together with the date of execution, the name of the test case, the name of the test set (if applicable), the name of the tester, the release/version of the system that the test was executed against, the overall execution status for the test case in that run and a link to the actual test run details (see section 5.6). In addition, you can choose to display any of the custom properties associated with the test run.

٦	est Steps *	Req Coverage *	Custom Props *	Test Runs 🔹	Releases #	Attachments *	History	*			
> R	efresh Apply	Filter Clear Filte	rs - Show/hide colu	nns 🔻 🔻							
~	I Test Run I	Name ▲▼	Execution Date AV	Test Set ▲▼	Release ▲▼	Status ▲▼	Est. Dur. ▲▼	Act. Dur. ▲▼	Web Browser ▲▼	Operating System ▲▼	Run # ▲▼
				Any 🔻	Any 🔻	Any 🔻 🔻			Any 🔻 🔻	- Any - 🔻	TR
	Ability 1	o create new book	4-Dec-2003		1.1.0.0.0003	Failed	0.0h	1.2h			TR000018
	Ability 1	o create new book	3-Dec-2003		1.1.0.0.0002	Passed	0.0h	1.2h			TR000015
	Ability 1	o create new book	2-Dec-2003		1.1.0.0.0001	Passed	0.0h	1.2h			TR000013
	Ability 1	o create new book	1-Dec-2003	Testing Cycle for Release 1.1	<u>1.0.1.0</u>	Passed	0.2h	1.5h	Mozilla / Firefox	Windows 2000	TR000002
	Ability t	o create new book	1-Dec-2003		1.0.0.0	Failed	0.2h	1.2h	Opera	Windows 2003	TR000012
	Ability 1	o create new book	1-Dec-2003	Testing Cycle for Release 1.0	<u>1.0.0.0</u>	Failed	0.2h	1.3h	Internet Explorer	Windows XP	TR000001
Sho	w 15 🔻 rows	per page								I≪ ≪ Displaying page 1	S of 1 ⊫ ⊫

The "customize columns" drop-down list allows you to change the fields that are displayed in the test run list as columns. To show a column that is not already displayed, simply select that column from the list of "Show..." column names and to hide an existing column, simply select that column from the list of "Hide..." column names. The displayed columns can be any standard field or custom property.

You can also filter the results by choosing items from the filter options displayed in the sub-header row of each field and clicking the "Apply Filter" link. In addition, you can quickly sort the list by clicking on one of the directional arrow icons displayed in the header row of the appropriate field.

5.2.7. Release Mapping

This view displays the name of the test case together with the release mapping information for the test case in question:

Test Steps *	Req Coverage *	Custom Props *	Test Runs	*	Release	es *	Attachments *	His	tory *
Available Relea	ases:			Мар	ped Release	es:			
✓ Name				~	Test #	Name			Status
🗆 🗉 🖻 1.0.0	.0 - Library System R	Relea			RL000001	<u>1.0</u>	0.0 - Library System	Relea	Active
□	.1.0 - Library System	Relea	Add >		RL000002	<u>1.0</u>	1.0 - Library System	Relea	Active
🗆 🕀 🖬 1.0	.2.0 - Library System	Relea	Auu >		RL000003	<u>1.0</u>	2.0 - Library System	Relea	Active
🔲 💾 1.0	.0.0.0001 - Iteration 0	01	Remove <		RL000004	<u> 1.1</u>	0.0 - Library System	Relea	Active
🔲 💾 1.0	.0.0.0002 - Iteration 0	02	Remove All		RL000017	💾 <u>1.1</u> .	0.0.0001 - Iteration 0	01	Active
🔲 🔛 1.0	.0.0.0003 - Iteration 0				RL000018	💾 <u>1.1</u> .	0.0.0002 - Iteration 0	02	Active
□ 🗉 値 1.1.0	.0 - Library System R	lelea			RL000019	<u>1.1</u>	0.0.0003 - Iteration 0	03	Active
1.2.0	.0 - Library System R	telea							
To associate rele	rage box indicates the ases with this test ca [Remove] and [Remov	ise, choose from th	ne list above and	click	[Add].		by the test case.		

The pane consists of two lists of releases/iterations, the one on the left being the complete hierarchical list of releases and iterations in the project. The right box (which will initially be empty) contains the list of releases/iterations mapped to this test case. The releases in this box include columns for their ID, name and active status. Hovering the mouse over the names of the releases/iterations in either box will display a "tooltip" consisting of the release/iteration name, place in the hierarchical structure and a detailed description. Clicking on the hyperlinks in right-hand box will jump you to the details screen for the release/iteration in question (see section 7.2).

To change the release mapping for this test case, you use the buttons (Add, Remove, Remove All) positioned between the two list-boxes. The <Add> button will move the selected releases from the list of available on the left to the list of mapped on the right. Similarly the <Remove> and <Remove All> buttons will remove either the selected or all the releases from the right list-box and add them back to the left list-box.

5.2.8. Attachments

In this mode, the main pane displays the list of documents that have been "attached" to the test case. The documents can be in any format, though SpiraTeam® will only display the icon for certain known types.

Te	est Steps *	Req. Coverage *	Automation *	Comments	Custom Props *	Test Runs *	Releases *	Attachments *	His	tory *	
> <u>A</u>	> Add New Add Existing Remove Refresh Apply Filter Clear Filter 📄 Include Source Code Documents										
~	Document I	Name ▲▼	Ту	pe ▲▼	Size ▲▼	Edited By 🔺	Edited On	▲▼ Author ▲	•	ID ▲▼	
				Any 🔻 🔻		Any	▼	- Any	▼	DC	
	12 Sequenc	e Diagram for Book	Mgt.pdf UN	IL Diagram	35 KB	Joe P Smith	10-May-20	06 Fred Blog	gs	DC000007	
	w 15 🔻 rows				·			🛯 🖣 Displaying	g page 1	S of 1 ► ►	

The attachment list includes the filename that was originally uploaded together with the file-size (in KB), name of the person who attached it and the date uploaded. In addition, if you position the pointer over the filename and hold it there for a few seconds, a detailed description is displayed as a tooltip.

To actually view the document, simply click on the filename hyperlink and a new web browser window will open. Depending on the type of file, this window will either display the document or prompt you for a place to save it on your local computer. To delete an existing attachment from a test case, simply click the <Delete> button and the attachment will be removed from the list.

If you are using SpiraPlan or SpiraTeam (but not SpiraTest) you can also choose to include file attachments stored in a linked version control system (e.g. Subversion, CVS, Perforce, etc.) by selecting the "Include Source Code Documents" option.

To attach a new document to the test case, you need to first click the "Add New" link to display the new attachment dialog box:

dd New Docume	⊙ File ○ URL ○ Si	creenshot	Add New Docume	⊖ File ⊙ URL	O Screenshot		d New Docum	O File O URL	 Screenshot 	
ilename:*		Browse	URL:*			Sc	reenshot:"			
Description:		~	Description:		1					
ocument Type:*	Functional Specification	<u></u>		Functional Specification]				
ocument Folder:*	Root Folder	V	Document Folder:*	Root Folder]		> Paste image from	clipboard	-
ags:			Tags:			De	scription:		-	6
		> Upload Cancel			> Upload Ca	ncel				~
						Do	cument Type:*	Functional Specification		-
						Do	cument Folder:*	Root Folder	,	2
						Та	3 5:			
									> Upload I Ca	

There are three different types of item that can be attached to a test case:

- To upload a file, choose "File" as the type and then click the Browse button and select the file from your local computer, optionally enter a detailed description then click the <Upload> button. The document will be copied from your computer and attached to the artifact.
- To attach a web-link (URL) to the artifact, you need to choose "URL" as the type and then enter the fully qualified URL (e.g. <u>http://mywebsite.com?Document=1</u>), an optional description and then click the <Upload> button to attach the web-link.
- To attach a screenshot to the artifact, you need to choose "Screenshot" as the type and then copy the image to your computer's clipboard (e.g. on Windows computers, the PRINT SCREEN button captures the current page and adds to the clipboard). Once the image is in the clipboard, click on the "Paste image from clipboard" hyperlink and the item will appear in the preview window. You can then fill in the other fields and click <Upload> to attach the image.

Note: If you are using a non-Windows® computer (e.g. Macintosh®) that doesn't put file extensions on filenames (e.g. .xls for an Excel sheet) automatically, then you will need to manually add the file extension to the filename *before uploading* if you want it to be displayed with the correct icon in the attachment list.

You can also associate an existing document (that's already stored in SpiraTeam) with the test case. To do that, click on the "Add Existing" hyperlink to bring up the add file association dialog box:

Add Existing Document			×	Add Existing Document		×			
Choose the location of existing document	t that	you'd like to add:	c	Choose the location of existing document that you'd like to add:					
Ocuments Source Code				O Documents					
Folder	~	Document		Folder	~	File			
EditExistingBook		Expected Result Screensh 📤		🗉 🧰 <u>Design</u>		🕙 Document Filename1.doc 🖾			
<u>Misc Documents</u> <u>Screen Captures</u>		Web Page capture.htm		🖃 🗁 Development		Document Filename10.ppt			
Screen Captures Specifications		Date Editing Screenshot.jp		• Contraction Cont		Document Filename11.htm			
Test Results				Documentation Training		Document Filename2.xls			
Test Scripts	•	▼			•	@ n == == == == == == == == == == ==			
		> Add Cancel		Comment:					
				This is a related document					
						> Add Cancel			

You can then choose to either associate a document stored in the SpiraTeam Documents repository or (in the case of SpiraPlan/SpiraTeam but not SpiraTest) from the linked source code repository. In either case you first select the appropriate folder, and then pick the document(s) from the file list on the right. In the case of a source code file association you can also add a comment.

5.2.9. History

In this mode, the main pane displays the list of changes that have been performed on the test case artifact since its creation. An example test case change history is depicted below:

Test Steps * Req.	. Coverage * Auto	mation * Comments	Custom Props *	Test Runs * Releases *	Attachments *	History *
> Refresh Apply Filte	er <u>Clear Filter</u> <u>Adm</u>	<u>iin View</u>				
Change ID ▲▼	Change Date ▲▼	Field Name ▲▼	Old Value ▲▼	New Value ▲▼	Changed By ▲▼	Change Type ▲▼
					- Any 🔻	- Any 🔻
<u>11</u>	2-May-2006	[Step] Expected Result	User taken to first screen	User taken to next screen in wizard	Fred Bloggs	Modified
<u>9</u>	2-May-2006	Name	Library System v1.0.0	Library System Release 1	Fred Bloggs	Modified
<u>3</u>	4-Mar-2005	[Step] Expected Result		User taken to first screen	Joe P Smith	Modified
2	4-Mar-2005	Owner		Fred Bloggs	Joe P Smith	Modified
Show 15 Trows per p	age				ৰ 🖣 Displaying p	oage 1 Sof 1 ► ►

The change history displays the date that each change was made, together with the fields that were changed, the old and new values and the person who made the change. This allows a complete audit trail to be maintained of all changes in the system. In addition, if you are logged in as a project administrator you can also click on the "Admin View" hyperlink to revert any unwanted changes.

5.3. Test Step Details

When you click on one of the hyperlinks next to a test step in the test step list (see above), you will be taken to the test step details screen illustrated below:

spiraTeam	Welcome, System A	tministrator Library Information System 🔻 <u>My Profile</u> <u>Administration</u> <u>Log Out</u> Search 🏵	Help?
spiratean	My Page F	roject Home Planning Testing Tracking Reporting	
Test Cases > Test Step Details Test Se	ts <u>Test Runs</u>	Automation Hosts	Role: Project Owner
<< Back to Test Step List	💾 <u>Save</u> 🖓	Copy 🗞 Refresh 🗱 Delete	
Display: Al Items	Test Step 3 [1	S.000003] - Test Case #: <u>IC000002</u>	
Ability to create new book Step 1 (TS000001)	Description*:	-Font	
(1) Step 2 (TS000002)		User enters books name and author, then clicks Next	
Step 3 (TS000003) Step 4 (TS000004)			
1 Step 5 (TS000005)	Expected Result*:	-Font	
		User taken to next screen in wizard	
	Sample Data:	-Font	
		Macbeth, William Shakespeare	
	Incident Associa	tions * Custom Props * Attachments * History *	

This page is made up of three areas; the left pane is the navigation window, the upper part of the right pane contains the test step detailed information itself, and the bottom part of the right pane contains related information about the test step.

The navigation pane consists of a link that will take you back to the test step list, as well as a list of the peer test steps to the one selected. This latter list is useful as a navigation shortcut; you can quickly view the detailed information of all the peer test steps by clicking on the navigation links without having to first return to the test step list page. You can also switch between seeing the list of test steps with the current filter applier or simply unfiltered.

The top part of the right pane allows you to view and/or edit the details of the particular test step. You can edit the various fields (description, expected result and sample data) and once you are satisfied with them, simply click the <Save> button just below the fields to commit the changes. If you want to add a new test step to the test case, you should click <Save and New> instead.

The lower part of the right pane can be switched between four different views by clicking the appropriate tab. Initially the pane will be in "Incident Associations" mode, but it can be switched to "Custom Properties", "Attachments" and "History" modes if so desired. Each of the views is described separately below.

5.3.1. Incident Associations

In this mode, the main pane displays a list of any incidents that are associated with this test step. They can either be linked indirectly due to being logged during a test run, or directly linked after the fact:

ſ	Incident Associations *	Custom Properties *	Attachme	ents *	History *					
	> Add Delete Refresh Apply Filter Clear Filters 🔽 Include Source Code Revisions									
	✓ Artifact Name ▲▼	A	rtifact Type 🔺 🔻	Created On ▲▼	Created By ▲▼	Comment ▲▼	Artifact # ▲▼	Edit		
			- Any 🔻		Any 🔻			► Filter		
	Cannot add a new	book to the system In	cident	4-Nov-2003	Joe P Smith	Test Run: Ability to create new book	IN000007			
	Show 15 V rows per page 1 V of 1 N									

Each incident is displayed with its name, the name of the person who executed the test run or made the direct association, and a comment that describes why the association was made. In the case of a test run, the comment will simply contain the name of the test run.

You can perform the following actions on an incident association from this screen:

- Delete removes the selected incident association. This will only delete the association, not the incident itself.
- Refresh updates the list of associated incidents from the server, useful if other people are linking incidents to this test step at the same time.
- > Apply Filter Applies the entries in the filter boxes to the list of associations
- Clear Filters Clears the current filter, so that all associations for the current test step are shown.
- Edit Clicking the [Edit] button to the right of the associations allows you to edit the comment field inline directly on this screen.

To create a new association between this test step and an existing incident, simply click the <Add> hyperlink which will display the "Add New Association" popup dialog box:

Add New Association		X
Please choose the type of a	rtifact that you want to add an association to:	
Incident O Requirement	t OTest Step	
Please choose the artifac	t that you want to add an association to:	
(a) Enter Artifact ID:	IN	
(b) Choose from list:	✓ Name	
c	Editing the date on a book is clunky	
	Doesn't let me add a new category	
	Quote handling issues throughout	
	Permissions not updating when changed	
Comment:		
	hA c	d Cancel
F		a i <u>ouncei</u>

You need to choose the specific incident you want to link to, either by choosing the item from a scrolling selection box, or entering the ID of the incident directly (if known). In either case you can also add a comment that explains the rationale for the association.

Finally, to delete an existing incident association (except for those due to test runs) select the check-box next to its name and click the <Delete> hyperlink. This will only delete the association, not the linked incident itself.

5.3.2. Custom Properties

In this mode, the main pane displays any custom properties that the project owner has defined for test steps. To learn more about how to setup and configure custom properties for a project, please refer to the *SpiraTest Administration Guide*. Assuming that custom properties have been defined for your project, you will see a list of optional parameters that can be set on the test step. These can be either freetext or drop-down-lists.

Incident Associations	* Custor	n Properties *	Attachments *	History *			
The following are the custom properties of this artifact:							
Additional Data:	Some Data			<u>^</u>			
Step Type:	Step Type 1			V			

Once you are satisfied with the values for the custom properties, simply click [Save] or [Save and New] to commit the changes.

5.3.3. Attachments

In this mode, the lower section of the screen displays the list of documents that have been "attached" to the test step. The documents can be in any format, though SpiraTeam® will only display the icon for certain known types.

Incident Associations *	Custom Props *	Attachments *	History *				
> Add Delete Refresh Apply Filter Clear Filter Include Source Code Revisions							
✓ Artifact Name ▲▼		Artifact Type	Creation Date	Creator AV	Comment ▲▼	ID ▲▼	Edit
		- Any 🔻		Any 🔻			► Edit
Cannot add a ner	w book to the system	Incident	4-Nov-2003	Joe P Smith	Test Run: Ability to create new book	IN000007	
Show 15 🔻 rows per page 1 🗣 of 1 🕨 🕅							

The attachment list includes the filename that was originally uploaded together with the file-size (in KB), name of the person who attached it and the date uploaded. In addition, if you position the pointer over the filename and hold it there for a few seconds, a detailed description is displayed as a tooltip.

To actually view the document, simply click on the filename hyperlink and a new web browser window will open. Depending on the type of file, this window will either display the document or prompt you for a place to save it on your local computer. To remove an existing attachment from a test step, simply click the <Remove> button and the attachment will be removed from the list.

If you are using SpiraPlan or SpiraTeam (but not SpiraTest) you can also choose to include file attachments stored in a linked version control system (e.g. Subversion, CVS, Perforce, etc.) by selecting the "Include Source Code Documents" option.

To attach a new document to the test step, you need to first click the <Add Attachment> link to display the new attachment dialog box:

nt		Add New Docume	nt			Add New Docume	ent	
		Type:* URL:* Description:	⊖ File ⊙ URL	O Screenshot		Type:* Screenshot:*	O File O URL	Screenshot
Functional Specification Root Folder	T				V V	Description:	> Paste image from cli	pboard
> <u>Uph</u>	load <u>Cancel</u>			> <u>Upload</u>	Cancel		L	T
-	Pile O URL O Screens Br unctional Specification toot Folder	Pile URL Screenshot Browse Urctonal Specification	t Add New Docume D File O URL O Screenshot Type:* URL;* Description: unclenel Specification V Document Type:* Document Type:* Document Folder:* Tags:	t Add New Document File O URL O Screenshot Browse. URL* Description: Undereal Specification Controller* Document Type* Functional Specification Document Folder* Tags:	t Add New Document Type:* O File O URL O Screenshot URL:* Description: unclonel Specification Document Type:* Functional Specification Document Folder:* Fas: Tags:	t Add New Document	t Add New Document Add New Document Add New Document Type:* Add New Document Type:* Place of URL O Screenshot Type:* Screenshot:* Screenshot:* Screenshot:* Screenshot:* Screenshot:* Screenshot:* Description: uncternal Specification V Document Type:* Functional Specification V Document Folder:* Root Folder > Upload Cancel > Upload Cancel Document Type:* Docum	t Add New Document Add New Document Type:* O File O URL O Screenshot URL:* Description: Document Type:* Functional Specification Document Type:* Functional Specification Document Type:* Root Folder:* Tags: > Upload I Cancel Document Type:* Functional Specification Document Type:*

There are three different types of item that can be attached to a test step:

- To upload a file, choose "File" as the type and then click the Browse button and select the file from your local computer, optionally enter a detailed description then click the <Upload> button. The document will be copied from your computer and attached to the artifact.
- To attach a web-link (URL) to the artifact, you need to choose "URL" as the type and then enter the fully qualified URL (e.g. <u>http://mywebsite.com?Document=1</u>), an optional description and then click the <Upload> button to attach the web-link.
- To attach a screenshot to the artifact, you need to choose "Screenshot" as the type and then copy the image to your computer's clipboard (e.g. on Windows computers, the PRINT SCREEN button captures the current page and adds to the clipboard). Once the image is in the clipboard, click on the "Paste image from clipboard" hyperlink and the item will appear in the preview window. You can then fill in the other fields and click <Upload> to attach the image.

Note: If you are using a non-Windows® computer (e.g. Macintosh®) that doesn't put file extensions on filenames (e.g. .xls for an Excel sheet) automatically, then you will need to manually add the file extension to the filename before uploading if you want it to be displayed with the correct icon in the attachment list.

You can also associate an existing document (that's already stored in SpiraTeam) with the test step. To do that, click on the "Add Existing" hyperlink to bring up the add file association dialog box:

Add Existing Document	🗵 Add E	Add Existing Document			
Choose the location of existing document that you'd like to		Choose the location of existing document that you'd like to add: © Documents			
	ed Result Screensh age capture.htm diting Screenshot.jp pogging-in Screen-shu > Add Cancel	Design Development Development Documentation Training	File Document Filename1.doc Document Filename10.ppb Document Filename1.htm Document Filename2.xls T C C C C C C C C C C C C		

You can then choose to either associate a document stored in the SpiraTeam Documents repository or (in the case of SpiraPlan/SpiraTeam but not SpiraTest) from the linked source code repository. In either case you first select the appropriate folder, and then pick the document(s) from the file list on the right. In the case of a source code file association you can also add a comment.

5.3.4. History

In this mode, the main pane displays the list of changes that have been performed on the test step artifact since its creation. An example test step change history is depicted below:

Incident Associations *	Custom Props *	Attachments *	History *						
> Refresh Apply Filter Clear Filter									
✓ Change ID ▲▼	Change Date	▲▼ Field Name ▲▼	Old Valu	e ▲▼ New Value	e ▲▼ Changed B	y ▲▼ Change Type ▲▼			
					Any	🔻 Any 🔻			
11	2-May-2006	Expected Result	User tak screen	en to first User taker wizard	to next screen in Fred Bloggs	Modified			
3	4-Mar-2005	Expected Result		User taker	to first screen Joe P Smith	Modified			
Show 15 🔻 rows per page 1 S of 1 N									

The change history displays the date that each change was made, together with the fields that were changed, the old and new values and the person who made the change. This allows a complete audit trail to be maintained of all changes in the system. In addition, if you are logged in as a project administrator you can also click on the "Admin View" hyperlink to revert any unwanted changes.

5.4. Execute Test Case(s)

This section describes how a tester can follow the steps defined for a series of test cases and record what actually happened in the process. In addition, recorded failures of test cases can be used to automatically generate new incidents that will be added to the incident tracking module (see section 6).

You start test case execution in SpiraTeam by either selecting test cases or test sets on their respective page(s) and then clicking the <Execute> button, or by clicking the "Execute" link on the test cases / test sets listed on your personalized home page under "My Test Cases" or "My Test Sets". If you execute a test set then the values of the selected release and custom list properties for the test run are automatically populated from the test set, whereas if you directly execute a test case itself, those values can be chosen by the tester.

Regardless of the route taken to launch the test execution module, the first screen that will be displayed will look like the following:

spiraTeam [*]	Welcome, System Administra	tor Library Information System 🔻 I <u>My Profile</u> <u>Administration</u> Log Out Search 🛞	Help?
spirarean	My Page Project He	me Planning Testing Tracking Reporting	
Test Cases > Test Case Execution Test	st Sets Test Runs Autor	nation Hosts	Role: Project Owner
<< Back To Tests	Pass ✓ Pass All 🐓	Blocked S Caution ! Fail X Pause Finish Release #: 1.2.0.0	
E Stack to result			
Ability to create new author	(Test Execution Wiz	ard	
🛄 🔮 Step 1 - (TC16)	Please Choose the Relea	ise To Execute Against:	
<u> <u> Step 2 - (TC17)</u> <u> <u> Step 3 - (TC4)</u> </u></u>	Release*:	1.2.0.0 - Library System Release 2005	
Step 4 - (TC4)	Build:	- None - T	
<u> <u> Step 5 - (TC4)</u> <u> <u> Step 6 - (TC4)</u> <u> </u> </u></u>	Dullu.	- NOTO Y	
Ability to reassign book to di	Now enter the following p	roperties for this test run:	
🗉 🔲 🎦 Person loses book and need	s		
E 🔲 🎦 Adding new book and autho	r ivotes.		
	Web Browser:	- None 🔻	
	Operating System:	- None V	
	(Noto: Any system pr	operties that are read-only have already been populated from the Test Set.)	
	(Note: Any custom pro		
		Cancel Next	

Before actually executing the test scripts, you need to select the release (and optionally the specific build) of the system that you will be testing against and any test run custom properties that have been defined by the project owner. This ensures that the resulting test runs and incidents are associated with the correct release of the system, and that the test runs are mapped to the appropriate custom properties (e.g. operating system, platform, browser, etc.).

If you have not configured any releases for the project, then the release drop-down list will be disabled and the test runs/incidents will not be associated with any particular release. If the test run was launched from a test set, the release and any list custom properties will be pre-populated from the test set itself and will not be changeable on this screen (unless they weren't set by the test set).

Once you have chosen the appropriate release name and/or custom properties, click the <Next> button to begin executing test steps:

spiraTeam	/elcome, System Administrator Library Information System 🔻 My Profile Administration Log.Out Search 🏵						
SpirarCarr	My Page Project Home Planning Testing Tracking Reporting						
Test Cases > Test Case Execution Test	t Sets Test Runs Automation Hosts						
<< Back To Tests	Pass ✓ Pass All 参 Blocked ⊗ Caution ! Fail X ► Pause ► Finish Release #: 1.2.0.0						
🗉 🝓 Testing New Functionality (TX5)	Ability to create new author (TC000004)						
🗆 🔲 🎦 Ability to create new author	Tests that the user can create a new author record in the system						
🔲 🕮 Step 1 - (TC16)							
Step 2 - (TC17)							
Step 3 - (TC4)	Step 1 - Please follow the directions outlined in the box below:						
Step 4 - (TC4)	User opens up browser and enters application URL: http://www.libraryinformationsystem.com/beta						
Step 6 - (TC4)							
■ ■ Ability to reassign book to dif							
Step 1 - (TC16)	Expected Result: Sample Data:						
Step 2 - (TC17)	The browser loads the login web page http://www.libraryinformationsystem.com/beta						
🗌 🛍 <u>Step 3 - (TC12)</u>							
Step 4 - (TC12)							
<u> Step 5 - (TC12)</u>	Actual Result - Please enter the actual test result if it differs, then click the appropriate button:						
🗉 🔲 🎦 Adding new book and author	-Fort- ▼ -Size- ▼ B I U 単音音 1 注注 律 1 1 2 3 1 - ∞ □ → 2						
	Incidents Attachments						

The screen is divided up into four main elements:

- The left-hand navigation pane contains the list of test cases and test steps for the currently executing test case. You can click on the various links to move between the test cases and/or test steps. In addition, each test case and test step has a colored square next to the name that indicates its status (green = "Passed", yellow = "Blocked", orange = "Caution", red = "Failed", gray = "Not Run") in the current test run. If any of the steps are marked as "Failed", "Blocked", or "Caution" then the overall test case is marked with that status; if *all* the test steps passed, then the overall test case is marked as "Passed"; any other case results in the test case being marked as "Not Run".
- The main pane displays the details of the test case together with the current test step. As the tester you would read the name and description of the test case, then read the description of the test step, carry out the instructions on the system you are testing, and then compare the results with those listed as expected. As described below, depending on how the actual system responds, you will use the buttons on the page to record what actually happened.
- Below the main pane there are two optional sections. The first one allows you to log an incident in the system associated with the test step. For failures this will typically be used to log a bug relating to the failure. However even if you pass a step you can still log an incident, which may be useful for logging non-critical cosmetic items that are not serious enough for a failure to be recorded. This tab also displays any pre-existing incidents that were associated with the test step being viewed.
- The second tab displays a list of attachments that are related to the current test case and/or test step. This list initially contains any documents that have been attached to either the test case in general or the test step in particular. However as you perform the testing, you can attach additional documents to this list that are relevant to the test results (e.g. screenshots of an error page); these attached documents will be associated with both the test run itself and any incidents that are created.

If the expected results are indeed observed, then you simply need to click the <Pass> button to mark the test step as passed, and advance to the next test step, or if all the steps have passed, you can click <Pass All> to pass all the steps at once. This is illustrated in the screen shot below:

spiraTeam [°]	Welcome, System Administrator Library Information System 🔻 My Profile Administration Log Out Search 🏵
spiratean	My Page Project Home Planning Testing Tracking Reporting
Test Cases > Test Case Execution Test	st Sets Test Runs Automation Hosts
<< Back To Tests	Pass ✓ Pass All ✓ Blocked ⊗ Caution ! Fail X ► Pause Release #: 1.2.0.0
E 🗄 Testing New Functionality (TX5)	Person loses book and needs to report loss (TC000012)
🗉 🗹 🎦 Ability to create new author	
✓ (1) <u>Step 1 - (TC16)</u>	
✓ ⁽¹⁾ Step 2 - (TC17) ✓ ⁽¹⁾ Step 3 - (TC4)	
Step 4 - (TC4)	Step 1 - Please follow the directions outlined in the box below:
V 🔁 Step 5 - (TC4)	User opens up browser and enters application URL: http://www.libraryinformationsystem.com/beta
Step 6 - (TC4)	
🗉 📃 🎦 Ability to reassign book to di	
Person loses book and need	
🔲 🚇 Step 1 - (TC16)	Expected Result: Sample Data:
External Step 2 - (TC17)	The browser loads the login web page http://www.libraryinformationsystem.com/beta
Step 3 - (TC12) Step 4 - (TC12)	
Step 5 - (TC12)	Actual Result - Please enter the actual test result if it differs, then click the appropriate button:
🗉 🔲 🎦 Adding new book and autho	
	Incidents Attachments

This will change the icon in the left-hand navigation bar into a green square with a check mark in it. Once all the test steps have passed, you will be automatically be taken to the first step in the next test; if it is the last test case being executed, the <Finish> button will be displayed instead.

If the actual results differ from those expected, you need to enter a description of the result observed and click the <Fail>, <Blocked> or <Caution> button; this is illustrated in the screen-shot below:

spiraTeam	Welcome, System Administrator Library Information System 🔻 My Profile Administration Log Out Search 🏵
Spirarcai	My Page Project Home Planning Testing Tracking Reporting
Test Cases > Test Case Execution Te	st Sets Test Runs Automation Hosts
<< Back To Tests	Pass √ Pass All Blocked Caution Fail Fail
E 🗄 Testing New Functionality (TX5)	Person loses book and needs to report loss (TC000012)
🗆 🗹 🎦 Ability to create new author	
Step 1 - (TC16)	
✓ ⁽¹⁾ Step 2 - (TC17) ✓ ⁽¹⁾ Step 3 - (TC4)	Step 1 - Please follow the directions outlined in the box below:
Step 4 - (TC4)	User opens up browser and enters application URL: http://www.librarvinformationsystem.com/beta
Step 5 - (TC4)	Oser opens op browser and enters approacion once. http://www.noraryintornationsystem.com/beta
Step 6 - (TC4)	
Description: Barrier Barr	
Step 1 - (TC16)	Expected Result: Sample Data:
Step 2 - (TC17)	The browser loads the login web page http://www.libraryinformationsystem.com/beta
Step 3 - (TC12)	
Step 4 - (TC12)	
Step 5 - (TC12)	Actual Result - Please enter the actual test result if it differs, then click the appropriate button:
🖲 🔲 🎦 Adding new book and autho	-Fort- ▼ -Sze- ▼ B Z U 書書書 註註錄字 Ta Oa → ∞ □ □ ◇ 図
	The screen displays a 404 error message page.
	Incidents Attachments

Unlike the <Pass> button, if you don't enter a description of the actual result, the system will display an error message and re-prompt you again for input. In the case of a failure, both the individual test step and the overall test case will be marked with a red square containing a cross. Similarly, in the case of a blocked test case, they will be marked with a yellow square, and in the case of a caution, they will be marked with a vellow square, and in the case of a caution, they will be marked with an orange square. Once marking a test step as <Failed>, <Caution>, or <Blocked>, you will automatically be taken to the first test step in the next test case; or if it is the last test case being executed, the <Finish> button will be displayed instead.

In addition to logging the failure, you can optionally choose to have the failure automatically result in the creation of a new incident. This is achieved by clicking on the Incident tab and entering a name, type, priority, severity (and any custom properties) for the new incident *before* clicking the <Fail/Caution/Blocked> button:

Actual Resu	ult - Please (enter the a	actual te	est result												
Font	•	- 9	iize	•	в /	U) = =	tje tje	T_ 🏠	 ee 🚺	□ <> [2]			
The screen	displays a 4	04 error m	nessage	page												
Logged I	Incidents		Attachm	ents											_	
Please enter t	the following	informatio	on to log	an incid	dent wi	ith thi	s test step):								
Name:*	Cannot logi	n to the w	eb nag	a correc	thy											
		into the w	eb pag	sconec	uy								1			
Туре:*	Bug				•		Priority:	1 - Crit	cal			•				
Owner:	- None -				V		Severity	: 2 - Hig	h			▼				
Also enter the	following cu	istom pro	nortios f	ior this n	ow inc	idont										
Also enter the	- ionowing cu	istoni pro	pennes i	or uns n	ew inc	iuent.										
Notes:																
Operating :	System:	Windows V	ìsta									-				

The other information needed for the new incident is automatically populated from the test step details. The newly created incident will also be linked to the test step, allowing traceability from within the incidents module. The functionality for managing incidents is described in more detail in section 6.

If you need to attach documents to the test run (e.g. screenshots of the error message), you just need to select the Attachments tab and then choose the option to upload the necessary documents, attach the appropriate URLs, or paste in the appropriate screen capture.

Note that the entire test run is saved once you first start execution, so you can always step away from your computer and then resume testing at a later date by locating the test run on your 'My Page' under 'My Pending Test Runs' and choosing to resume testing.

5.5. Test Run List

When you click on the Testing > Test Runs global navigation link, you will initially be taken to the test run list screen illustrated below:

-	My Pa	age Project	Home Plane	ning Test	ing Tracking	Reporting	1			
est C	ises Test Sets Test Runs Automatic	on Hosts				1010 - 208 - 22				Role: Manag
Ref	esh 🕼 Print 🔯 Delete - Show/hide c	olumns - 🛛 🔻	Filter							
isplay	ing 1 - 15 out of 19 test run(s) for this project									
1	Test Run Name ▲▼	End Date ▲▼	Test Set ▲▼	Release AV	Execution Status	Est. Dur. ▲▼	Act. Dur. ▲▼	Web Browser ▲▼	Operating System ▲▼	Test Run # 🔺
			- Any - 🔻	- Any - 🔻	- Any - 🔻			- Any - 🔻	- Any - 🔻	TR
23	Ability to create new book	4-Dec-2003		1.1.0.0.0003	Failed	0.0h	1.2h	1		TR000018
8	Ability to edit existing book	4-Dec-2003		1.1.0.0.0003	Failed	0.1h	1.2h			TR000019
20	Ability to create new author	4-Dec-2003		1.1.0.0.0003	Caution	0.2h	1.2h			TR000020
	Ability to create new author	3-Dec-2003		1.1.0.0.0002	Caution	0.2h	1.2h			TR000017
21	Ability to edit existing book	3-Dec-2003		1.1.0.0.0002	Blocked	0.1h	1.2h			TR000016
	Ability to create new book	3-Dec-2003		1.1.0.0.0002	Passed	0.0h	1.2h			TR000015
凹	Ability to edit existing book	2-Dec-2003		1.1.0.0.0001	Passed	0.1h	1.2h			TR000014
	Ability to create new book	2-Dec-2003		1.1.0.0.0001	Passed	0.0h	1.2h			TR000013
8	Ability to edit existing author	1-Dec-2003		10.10	Blocked	0.1h	1.6h			TR000011
8	Ability to edit existing book	1-Dec-2003		1.0.0.0	Caution	0.1h	0.8h			TR000010
巴	Author management	1-Dec-2003		1020	Passed	0.1h	1.5h			TR000008
	Book management	1-Dec-2003	Testing Cycle for Release 1.1	1.0.1.0	Passed	0.1h	1.5h			TR000007
20	Ability to reassign book to different author	1-Dec-2003	Testing Cycle for Release 1.1	1.0.1.0	Passed	0.1h	1.5h			TR000006
	Ability to edit existing author	1-Dec-2003		1.0.2.0	Passed	0.1h	1.5h			TR000005
2	Ability to create new author	1-Dec-2003	Testing Cycle for Release 1.0	1.0.0.0	Failed	0.1h	1.5h			TR000004

The test run list screen displays all the individual test executions performed in the current project, in a filterable, sortable grid. The grid displays the test run number together with fields such as execution status, name, assigned tester, execution date, test set, specified release, etc. The choice of columns displayed is configurable per-user, per-project, giving extensive flexibility when it comes to viewing and searching test runs.

In addition, you can view a more detailed description of the test run by positioning the mouse pointer over the test run name hyperlink and waiting for the popup "tooltip" to appear. If you click on the test run hyperlink, you will be taken to the test run details page described in the next section. Clicking on any of the pagination links at the bottom of the page will advance you to the next set of test runs in the list according to the applied filter and sort-order. There is also a drop-down-list at the bottom of the page which allows you to specify how many rows should be displayed in each page, helping accommodate different user preferences.

5.5.1. Sorting and Filtering

You can easily filter and sort the list of test runs as illustrated in the screen-shot below:

_		\sim	My Page	Project Home	Planning	Testing	Tracking	Reporting				
est (and the second	5								Role: Pro	ect Own
Re	fres	h 🗱 Delete Show/hide	columns 🔻	Tilter								
ispla	yin	g 1 - 5 out of 5 test run(s) for th	is project									
1	8	Test Run Name ▲▼	Execution Date AV	Test Set ▲▼	Туре ▲▼	Tester ▲▼	Release △▼	Status ▲▼	Est. Dur. ▲▼	Act. Dur. ▲▼	Run # ▲▼	Edit
				Any 🔻	Any 🔻	Any 🔻	Any 🔻	Failed V			TR	 Filter
		Ability to create new book	1-Dec-2003		Automated	Fred Bloggs	1.0.0.0	Failed	0.2h	1.2h	TR000012	► Edit
		Ability to create new author	1-Dec-2003	Testing Cycle for Release 1.0	Manual	Joe P Smith	<u>1.0.0.0</u>	Failed	0.1h	1.5h	TR000004	► Edit
	0	Ability to create new book	1-Dec-2003	Testing Cycle for Release 1.0	Manual	Joe P Smith	1.0.0.0	Failed	0.2h	1.3h	TR000001	 Edit
		Ability to edit existing book	4-Dec-2003		Automated	Fred Bloggs	1.1.0.0.0003	Failed	0.1h	1.2h	TR000019	• Edit
		Ability to create new book	4-Dec-2003		Automated	Fred Bloggs	1.1.0.0.0003	Failed	0.0h	1.2h	TR000018	• Edit
Show	1	5 🔻 rows per page								i⊲ ⊲ Displayin	g page 1	sof1⊳

To filter the list by any of the visible fields, you simply choose an item from the appropriate drop-down list, and for the other fields, you enter a free-text phrase then click <Filter> or press the <ENTER> key to

apply the different filters. Note that the name field is searched using a "LIKE" comparison, so that searching for "database" would include any item with the word database in the name.

To change the column that is sorted, or to change the direction of the current sort, simply click on the up/down arrow icon in the appropriate column. The currently sorted column is indicated by the larger, white arrow with the back-border. In the screen-shot above, we have filtered on test runs that have failed, sorted in order of increasing release version number.

Clicking on Filter > Clear Filter removes any set filters and expands the test run list to display all test runs for the current project, and clicking on Filter > Save Filter allows you to save the filter to your 'My Page' for use in the future. The list of saved filters can also be retrieved by clicking Filter > Retrieve Filter.

5.5.2. Printing Items

To quickly print a single test run or list of test runs you can select the items' checkboxes and then click the Print icon. This will display a popup window containing a printable version of the selected items.

5.6. Test Run Details

When you click on any of the individual test runs in the test run list, you are taken to the Test Run details page (not to be confused with the Test Case details page!) shown below:

spiraTeam	Welcome, System Administra	tor Library Information System 🔻	My Profile Administ	ration Log Out Search	•	Help?
spiratean	My Page Project H	ome Planning Tes	ting Tracking	Reporting		
Test Cases Test Sets Test Runs > T	est Run Details Automati	on Hosts				Role: Project Owner
<< Back to Test Run List	🖺 Save 🗱 Delete	🗞 Refresh 🛛 🖨 Print				
Display: Current Filter	Test Run: 🖺 Ability t	o create new book [TR:0000	01]			
 1.Dec.2003 (TR000001) 1-Dec-2003 (TR000012) 1-Dec-2003 (TR000002) 	Tests that the user can cr	reate a new book in the system				
1-Dec-2003 (TR000003) 1-Dec-2003 (TR000004)	Release #: 1.	0.0.0 - Library System Release 1	▼	Estimated Duration:	0.2 hours	
1-Dec-2003 (TR000004)	Tester Name:" Jo	e P Smith 🔻		Actual Duration:*	1.3 hours	
1-Dec-2003 (TR000006)	Test Set: Te	sting Cycle for Release 1.0 🍇		Execution Date:	12/1/2003 10:45:20 AM	
1-Dec-2003 (TR000007)	Test Case #:* TO	000002		Execution Status:*	Failed	
1-Dec-2003 (TR000010)	Build: -	None 🔻		Test Run Type:*	Manual	
2-Dec-2003 (TR000013)	Test Run Steps 🍨	Automation Custom Props =	Attachments *			

This page consists of three panes:

- The left hand navigation pane displays a list of related test runs. The display dropdown will let you choose whether the list contains test runs that are for the same release, test case or test set, or are just a filtered/unfiltered list based on your last search in the main test run list page.
- The main pane displays the details of the test run itself (name, description, release, test set, estimated and actual duration, tester name, test run type, automation host, etc.)
- The tab-control displays the list of test run steps (populated if a manual run executed by a user), the automated test results (populated by an test automation engine such as NUnit, JUnit, QuickTest Pro, etc.), any custom properties set for the run, and a list of any documents/URLs/screenshots that were attached to the test results.

5.6.1. Editing a Test Run

When reviewing the test run, you may find that you need to change the results of the test run (e.g. the user selected the wrong release or custom property value). Many of the fields are editable at a later date, and to make changes, just modify the appropriate fields and click [Save].

5.6.2. Deleting the Test Run

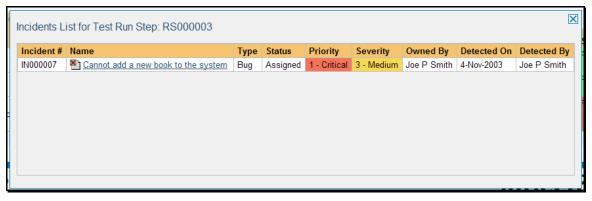
If you need to delete a test run that was erroneously captured, all you need to do is click on the link to access the invalid test run and then click the <Delete> button to remove it from the system. This will then force the system to update the status of the test case itself from the other logged test runs.

5.6.3. Test Run Steps

In the case of a manual test run, this tab displays all the steps of the test case as they appeared during the test run in question. This means that if the test steps were changed after running the test, the list here will reflect the original information.

Test Run	Steps *	Automation	Custom Properties *	Attachments *			
Run Step #	Test Step	Description	Expected Result	Sample Data	Test Case/Step	Actual Result	Status
RS000001	User logs i	n to application	User taken to main menu screen		TC000017 / TS000019		Passed
RS000002	User clicks	link to create book	User taken to first screen in wizard		TC000002 / TS000002		Passed
RS000003		s books name and n clicks Next	User taken to next screen in wizard	Macbeth, William Shakespeare	TC000002 / TS000003	An error page is displayed - "No such object or with block variable at line 473" >View Incidents	Failed

Each test run step is displayed along with the description, expected result, suggested sample data, a link back to the current version of the test step in question, the actual result and the execution status for this step *in this particular test run*. Where an actual result was recorded, you will have an additional hyperlink "View Incidents" displayed. This allows you to view any incidents that are associated with this particular test run step:



Clicking on the link will open up a popup dialog box that displays a list of all the incidents associated with the selected test run step. Each of the incidents listed will reflect the most up-to-date information regarding that incident, including its type, status, priority, name, assigned owner, detection date and who first detected it. Clicking on the incident number hyperlink will take you to the details page for that incident, which is described in section 6.2.

5.6.4. Automation

In the case of an automated test run, this tab will display the details of the test run as reported from the test runner application. These details will vary depending on the type of automated tool being used, but typically they include the name of the automated test runner, the number of assertions raised, the name of the corresponding test case in the tool, the status of the test run and a detailed error message, and stack-trace in the case of a failure. An example test run as reported from the NUnit automated test runner is illustrated below:

Test Run Ste
Runner Name:
Message:
Details:

Details on how to use SpiraTeam® in conjunction with an automated testing tool are provided in the *SpiraTeam® Automated Testing Integration Guide,* which can be downloaded from the Inflectra[®] website.

5.6.5. Custom Properties

In this mode, the tab displays any custom properties that the project owner has defined for test runs. To learn more about how to setup and configure custom properties for a project, please refer to the *SpiraTest Administration Guide*. Assuming that custom properties have been defined for your project, you will see a list of optional parameters that have been set during the test run:

	Test Run Steps	Automation *	Custom Properties *	Attachments
The	following are the cust	om properties of this artifac	t:	
I	Notes:			
	Web Browser:	Opera		
(Operating System:	Windows 2003		,

For test runs, custom properties are most commonly used to capture and record the system configuration that the test was performed on – for example the operating system, hardware platform, and web-browser.

5.6.6. Attachments

In this mode, the lower section of the screen displays the list of documents that have been "attached" to the test run. The documents can be in any format, though SpiraTeam® will only display the icon for certain known types.

Tes	t Run Steps * Automation	Custom Props *	Attachments *				
> <u>A</u>	dd New Add Existing Remove	Refresh Apply Filter	Clear Filter 📃 In	clude Source Code Documents			
 Image: A second s	Document Name ▲▼	Type ▲▼	Size ▲▼	Edited By ▲▼	Edited On ▲▼	Author A	ID ▲▼
		Any 🔹	'	- Any 🔻		Any 🔻	DC
	Error Logging-in Screen-shot.gi	f Screen Shot	48 KB	Fred Bloggs	24-Apr-2006	Fred Bloggs	DC000003
	v 15 🔻 rows per page				H	I ⊲ Displaying page 1	S of 1 ► ►

The attachment list includes the filename that was originally uploaded together with the file-size (in KB), name of the person who attached it and the date uploaded. In addition, if you position the pointer over the filename and hold it there for a few seconds, a detailed description is displayed as a tooltip.

To actually view the document, simply click on the filename hyperlink and a new web browser window will open. Depending on the type of file, this window will either display the document or prompt you for a place to save it on your local computer. To remove an existing attachment from a test run, simply click the <Remove> button and the attachment will be removed from the list.

If you are using SpiraPlan or SpiraTeam (but not SpiraTest) you can also choose to include file attachments stored in a linked version control system (e.g. Subversion, CVS, Perforce, etc.) by selecting the "Include Source Code Documents" option.

To attach a new document or web link to the test run, you need to click on the "Add New" hyperlink to open the "Add Attachment" dialog box. There are three different types of item that can be attached to a test run:

- To upload a file, choose "File" as the type and then click the Browse button and select the file from your local computer, optionally enter a detailed description then click the <Upload> button. The document will be copied from your computer and attached to the artifact.
- To attach a web-link (URL) to the artifact, you need to choose "URL" as the type and then enter the fully qualified URL (e.g. <u>http://mywebsite.com?Document=1</u>), an optional description and then click the <Upload> button to attach the web-link.
- To attach a screenshot to the artifact, you need to choose "Screenshot" as the type and then copy the image to your computer's clipboard (e.g. on Windows computers, the PRINT SCREEN button captures the current page and adds to the clipboard). Once the image is in the clipboard, click on the "Paste image from clipboard" hyperlink and the item will appear in the preview window. You can then fill in the other fields and click <Upload> to attach the image.

Note: If you are using a non-Windows® computer (e.g. Macintosh®) that doesn't put file extensions on filenames (e.g. .xls for an Excel sheet) automatically, then you will need to manually add the file extension to the filename before uploading if you want it to be displayed with the correct icon in the attachment list.

You can also associate an existing document (that's already stored in SpiraTeam) with the test run. To do that, click on the "Add Existing" hyperlink to bring up the add file association dialog box. You can then choose to either associate a document stored in the SpiraTeam Documents repository or (in the case of SpiraPlan/SpiraTeam but not SpiraTest) from the linked source code repository. In either case you first select the appropriate folder, and then pick the document(s) from the file list on the right. In the case of a source code file association you can also add a comment.

5.7. Test Set List

As well as being able to organize test cases into folders, you can also create separate groupings of test cases called test sets which can then be assigned to testers as a package. To view the list of test sets for a project, click on Testing > Test Sets in the global navigation:

		My Page Project Home	Planni	ng	Testing	Tracking Reportin	g			
st C	ases	Test Sets Test Runs Automation Hosts			2 AL 22	Ad an Ad			Role:	Project Ow
lns	ent	S Delete Indent Outdent - Show Level - V	Refresh	DE	tit 🔅 Tools - Si	now/hide columns -	Filter			
1	6	Test Set Name	Execution	Status	Planned Date	Last Executed	Owner	Status	ID	Edit
			- Any -	•			- Any - 🔻	- Any - 🔻	TX	+ Edit
-		E C Functional Test Sets			5-Feb-2007			In Progress	TX000008	• Edit
13	0	Testing Cycle for Release 1.0 (7)			5-Feb-2007	1-Dec-2003	Joe P Smith	In Progress	TX000001	• Edit
11		Testing Cycle for Release 1.1 (9)			7-Feb-2007	1-Dec-2003	Joe P Smith	Not Started	TX000002	► Edit
(1)		Testing New Functionality (4)			10-Feb-2007	19-Dec-2011	Fred Bloggs	In Progress	TX000005	• Edit
1		Exploratory Testing (2)					Fred Bloggs	Deferred	TX000006	• Edit
8		E Pregression Test Sets						Completed	TX000009	+ Edit
		Magnession Testing for Windows XP (4)					Fred Bloggs	Completed	TX000003	• Edit
1		A Regression Testing for Windows Vista (4)						Completed	TX000004	+ Edit

The test set list consists of hierarchical list of all the test sets in the current project organized into folders. When you create a new project, this list will initially be empty, and you will have to use the <Insert> button to start adding test sets to the system.

Each test set is listed along with the number of test cases contained (in parenthesis), the aggregate execution status of the contained test cases (using a graphical bar-chart), the date that the test set has been scheduled to be executed (planned date), the date that it was last executed, the person currently assigned to execute the test set, the status and the test set id. Clicking on a test set's hyperlink will take you to the test set details page for the item in question.

5.7.1. Insert

Hovering over the <Insert> button brings up a secondary menu that allows you to choose whether to insert a test set or a test set folder (if you just click Insert it defaults to inserting a test set). In either case, it will insert the new folder / test set *above* the currently selected item – i.e. the one whose check-box has been selected, at the same level in the hierarchy. If you want to insert a new test set or sub-folder inside an existing folder, use the Insert > Child Test Set or Insert > Sub Folder option instead. If you insert a new folder / test set without first selected an existing item from the list, the new test set will simply be inserted at the end of the list.

5.7.2. Indent / Outdent

Clicking on the <Indent> button indents all the test folders / test sets whose check-boxes have been selected. You cannot indent a test set or folder if it is *below* a test set, as test sets are not allowed to have child items. Clicking on the <Outdent> button de-indents all the test folders / test sets whose check-boxes have been selected.

5.7.3. Delete

Clicking on the <Delete> button deletes the currently selected test sets. It will delete the association between the test set and its contained test cases, but it will not delete the test cases themselves.

5.7.4. Execute

Clicking on the <Execute> button executes all the test sets selected. The test execution functionality of SpiraTeam® is explained in more detail in section 5.3.

5.7.5. Refresh

Clicking on the <Refresh> button simply reloads the list of test sets. This is useful if other people are making changes to the test set list and you want to make sure that you have the most current version.

5.7.6. Edit

Each test set in the list has an <Edit> button display in its right-most column. When you click this button or just *double-click* on any of the cells in the row, you change the item from "View" mode to "Edit" mode. The various columns are made editable, and <Update> <Cancel> buttons are displayed in the last column:

			Reporting	Tracking	Testing	Home Planning	My Page Project	
Role: Project Ov							Test Sets Test Runs Automation Hosts	st Cases Te
			- Y Filter	- Show/hide columns -	Edit 🔅 Tools	Refresh	Content Conten	Insert 😫 🛛
Edit	ID	Status	Owner	Last Executed	Planned Date	Execution Status	Test Set Name	/ @ Test Se
• Edit	TX	- Ariy - 🔻	- Any - 🔻			- Any - 🔻		3
• Edit	TX000008	In Progress			5-Feb-2007		E Punctional Test Sets	9 8 🔊 E
Update Cancel		In Progress 🔻 💷	Joe P Smith 🔻 🗐	1-Dec-2003	2/5/2007		Testing Cycle for Release 1.0	a 40[
		Not Started	Joe P Smith	1-Dec-2003	2/7/2007		Testing Cycle for Release 1.1	1 A
• Edit	TX000005	In Progress	Fred Bloggs	19-Dec-2011	10-Feb-2007		Testing New Functionality (4)] · · · · · · · · · · · · · · · · · · ·
• Edit	TX000006	Deferred	Fred Bloggs				Exploratory Testing (2)	4
► Edit	TX000009	Completed					E Caression Test Sets	E 🖻 🖻
► Edit	TX000003	Completed	Fred Bloggs				A Regression Testing for Windows XP (4)	
• Edit	TX000004	Completed					M Regression Testing for Windows Vista (4)	1 4

If you click <Edit> on more than one row, the <Update> and <Cancel> buttons are only displayed on the first row, and you can make changes to all the editable rows and then update the changes by clicking the one <Update> button. Also, if you want to make the same change to multiple rows (e.g. to change the owner of five test sets from "Fred Bloggs" to "Joe Smith"), you can click on the "fill" icon to the right of the editable item, which will propagate the new value to all editable items in the same column.

If you want to edit lots of items, first select their checkboxes and then click the [Edit] button on the same row as the Filters and it will switch all the selected items into edit mode.

When you have made your updates, you can either click <Update> to commit the changes, or <Cancel> to revert back to the original information. Alternatively, pressing the <ENTER> key will commit the changes and pressing the <ESCAPE> key will cancel the changes.

5.7.7. Show Level

Choosing an indent level from the 'Show Level' drop down box allows you to quickly and easily view the entire test set list at a specific indent level. For example you may want to see all test sets drilled-down to the *third* level of detail. To do this you would simply choose 'Level 3' from the list, and the test sets will be expanded accordingly

5.7.8. Show / Hide Columns

This drop-down list allows you to change the fields that are displayed in the test set list as columns for the current project. To show a column that is not already displayed, simply select that column from the list of "Show..." column names and to hide an existing column, simply select that column from the list of "Hide..." column names. This is stored on a per-project basis, so you can have different display settings for each project that you are a member of. The fields can be any of the built-in fields or any of the custom properties set up by the project owner.

5.7.9. Filtering

You can easily filter the list of test sets as illustrated in the screen-shot below:

sp	Ir	aTeam		_					
		My Page Proj	ect Home Planni	ng Testing	Tracking F	Reporting			
ost Car	10.5	Test Sets Test Runs Automation Hosts						Rol	e: Project Ov
linser	t	S Delete > Indent > Outdent - Show Leve	- V Refresh	Edit 🔅 Tools	- Show/hide columns -	T Filter			
1	0	Test Set Name	Execution Status	Planned Date	Last Executed	Owner	Status	ID	Edit
			> 0% Failed 🔻			- Any - 🔻	- Any - 🔻	TX	► Edit
-		E D Functional Test Sets		5-Feb-2007			In Progress	TX000008	► Edit
8	0	Testing Cycle for Release 1.0 (7)		5-Feb-2007	1-Dec-2003	Joe P Smith	In Progress	TX000001	► Edit
8		Testing New Functionality (4)		10-Feb-2007	19-Dec-2011	Fred Bloggs	In Progress	TX000005	+ Edit
23		E CREATERSTON Test Sets				in and sea worker	Completed	TX000009	► Edit

To filter the list by any of the displayed columns, you either choose an item from the appropriate dropdown list or enter a free-text phrase (depending on the type of field) then click <Filter> or press the <ENTER> key to apply the different filters. Note that the name field is searched using a "LIKE" comparison, so that searching for "database" would include any item with the word database in the name. The other freetext fields need to be exact matches (e.g. dates, test set numbers). In the screen-shot above, we are filtering on test sets that contain at least one failed test case.

In addition, if you have a set of filters that you plan on using on a regular basis, you can choose the option Filter > Save Filter to add the current filter to the list of saved filters that appear on your 'My Page'. The list of saved filters can also be retrieved by clicking Filter > Retrieve Filter.

5.7.10. Copying Test Sets

To copy one or more test sets, simply select the check-boxes of the test sets you want to copy and then select the Edit > Copy menu option. This will copy the current test set selection to the clipboard. Then you should select the place where you want the test sets to be inserted and choose the Edit > Paste option.

The test sets will now be copied into the destination location you specified. The name of the copied test sets will be prefixed with "Copy of..." to distinguish them from the originals.

5.7.11. Moving Test Sets

To move test sets in the hierarchy, there are two options:

1. Click on the icon the test set/folder you want to move and then drag the icon to the location you want it moved. The background of the destination location will change as the icon is dragged over it to illustrate where it will be inserted.

Once you have the test set/folder positioned at the correct place that you want it inserted, just release the mouse button and the test set list will be refreshed, with the item moved to the desired location. To move multiple items simply select their checkboxes and then drag-and-drop one of the selected items.

 Alternatively you can simply select the check-boxes of the test sets you want to move and then select the Edit > Cut menu option. This will cut the current test set selection to the clipboard. Then you should select the place where you want the test sets to be inserted and choose the Edit > Paste option. The test sets will now be moved into the destination location you specified.

5.7.12. Printing Items

To quickly print a single test set, test set folder or list of test sets you can select the items' checkboxes and then click Tools > Print Items. This will display a popup window containing a printable version of the selected items.

5.7.13. Right-Click Context Menu

SpiraTeam® provides a shortcut – called the *context menu* - for accessing some of the most commonly used functions, so that you don't need to move your mouse up to the toolbar each time. To access the context menu, right-click on any of the rows in the test set list and the following menu will be displayed:

Eunctional Test Sets	🖓 Open Item		5-Feb-2007		
Testing Cycle for Release 1.	🏷 Open in New Tab		5-Feb-2007	1-Dec-2003	Joe P Smith
Testing Cycle for Release 1.	New Test Set		7-Feb-2007	1-Dec-2003	Joe P Smith
Testing New Functionality (4	New Folder		10-Feb-2007		Fred Bloggs
Exploratory Testing (2)	Edit Items				Fred Bloggs
🗆 🗁 <u>Regression Test Sets</u>	🗱 Delete				
Regression Testing for Wind	➡ Indent				Fred Bloggs
Regression Testing for Wind	Outdent				
rows per page	Copy Items				
	Cut Items				
	Paste Items				

You can now choose any of these options as an alternative to using the icons in the toolbar.

5.8. Test Set Details

When you click on a test set item in the test set list described in the previous section, you are taken to the test set details page illustrated below:

spiraTeam	Welcome, System Adm	inistrator Library Information System 🔻	My Profile Admin	istration Log Out	Search	Help?
Spirarcan	My Page Pro	ject Home Planning Testin	g Trackin	ng Reportir	ng	
Test Cases Test Sets > Test Set Detail	s <u>Test Runs</u> <u>Aut</u>	omation Hosts				Role: Project Owner
<< Back to Test Set List	📕 Save 🖓 Co	opy 🗞 <u>Refresh</u> 🗱 <u>Delete</u> 🕞 !	Execute 🕼 Pri	int 🖂 Email	1 Subscribe	
Display: Current Filter	Test Set: 🐴 Tes	ting Cycle for Release 1.0 [TX:0000	01]			
E E Functional Test Sets	Name*:	Testing Cycle for Release 1.0				
Testing Cycle for Release 1.0	Description:	- Font 🔻 Size 🔻	BIU∣≣≣	≡ 旧田健健	: T ₅ (b ₁ - ∞ 🖬 🗖 🗘 💋	
Testing New Functionality		This tests the functionality introduced in re				
Exploratory Testing						
E B Regression Test Sets						
Regression Testing for Windows XP						
Regression Testing for Windows Vis	Owner:	Joe P Smith	Cr	reator*: Fre	ed Bloggs 🔻 🔻	
	Release:	1.0.0.0 - Library System Release 1	V 🌖 Ty	ype*: Ma	anual 🔻	
	Automation Host:	- None - 🔻	Cr	reation Date: 1/2	2/2007 12:00:00 AM	
	Status*:	In Progress	La	ast Executed: -		
	Planned Date:	2/5/2007 🔲 12:00:00 AM Hourty	▼ La	ast Updated: 1/2	2/2007 12:00:00 AM	
	Test Cases *	Test Runs * Comments	Custom Props =	Attachments	s * History	

This page is made up of three areas; the left pane is the navigation window, the upper part of the right pane contains the test set detailed information itself, and the bottom part of the right pane contains related information about the test set.

The navigation pane consists of a link that will take you back to the test set list, as well as a list of the peer test sets to the one selected. This latter list is useful as a navigation shortcut; you can quickly view the detailed information of all the peer test sets by clicking on the navigation links without having to first return to the test sets list page. The navigation list can be switched between three different modes:

- The list of test sets matching the current filter
- The list of all test sets, irrespective of the current filter
- The list of test sets assigned to the current user

The top part of the right pane allows you to view and/or edit the details of the particular test set. You can edit the various fields (name, description, etc.) and once you are satisfied with them, simply click either the <Save> or <Save and New> button at the top of the page to commit the changes. In addition you can delete the current artifact by choosing <Delete>, discard any changes made by clicking <Refresh> or print it by clicking <Print>.

Test Sets can be specified as being either for "Manual" or "Automated" test runs. If you choose Manual, then the test set can be executed by a tester from their "My Page." However if you choose "Automated", the test set will be executed by the automation host you specified. In this case, the *planned date and time* will be used by the automated test engine to know when to execute the automated test scripts. For manual test sets, only the date component is used. In addition, you can specify a *recurrence schedule* for the test set by changing the recurrence dropdown from "One Time" to "Hourly", "Daily", etc. so that SpiraTeam executes the same test set according to the specified frequency.

The lower part of the right pane can be switched between different views by clicking the appropriate tab. Initially the pane will be in "Test Cases" mode, but it can be switched to "Test Runs", "Comments", "Custom Properties", "Attachments" and "History" modes if so desired. Each of the views is described separately below. In addition there is a shortcut link "Execute This Test Set" that allows you to execute all the tests in the set against the release specified in the test set.

5.8.1. Test Cases

In this mode, the main pane displays the list of test cases contained within the test set. You can add, remove, reposition and remove test cases from the list. The execution status displayed next to each test case is the most recent execution status of the test case *when run in the context of the current test set*.

Т	est	Cases *	Test Runs *	Comments		Custom Props	s # Attac	hments	History			
> <u>A</u>	dd	Tests Re	move Tests <u>Refresh</u>	Edit Param	eters E:	xecuteTests	5			Est. Duration: 0.7h	/ Actual Durati	on: 4.3h
	U	Test Case	e Name		Owner	Priority	Est. Duration	Act. Durat	tion Last Executed	Execution Status	Test Case #	Edit
	U	Ability	to create new book			1 - Critical	0.2h	1.3h	1-Dec-2003	Failed	TC000002	► Edit
		Ability	to edit existing book			1 - Critical	0.1h	1.5h	1-Dec-2003	Passed	TC000003	► Edit
	U	Ability	to create new author			1 - Critical	0.1h	1.5h	1-Dec-2003	Failed	TC000004	► Edit
		Ability	to edit existing author			2 - High	0.1h			Not Run	TC000005	► Edit
		Ability	to reassign book to dif	ferent author		2 - High	0.1h			Not Run	TC000006	► Edit
		Book I	management			2 - High	0.1h			Not Run	TC000008	► Edit
		Author	management			2 - High	0.1h			Not Run	TC000009	► Edit
Show	w [1	15 🔻 rows	per page							ৰ ৰ Displayir	ng page 1	a of 1 ► ►
To ch	ang	ge the order	of the test cases, plea	ase click on th	ne test ca	ise icon and	drag it to the a	ppropriate pl	ace in the list.			

To move the test cases, you simply need to click the test case icon and drag it to the appropriate position in the list. Whilst you are dragging the icon, the border in the list will change color to indicate where it will be moved to.

To modify an existing Test Case you simply need to click on the <Edit> button in the right-most column, or just *double-click* on the cells in the row. That will switch the selected row into Edit mode. The owner field can then be set at the test case level. This is useful in situations where you want the different test cases in the set to be executed by different testers (e.g. in integrated, scenario tests)

Test Cases *	Test Runs *	Comments	5	Custom Props	*	Attachments	Hi	story			
> Add Tests Re	move Tests Refresh	Edit Param	eters E	xecuteTests				E	Est. Duration: 0	.7h / Actual [Duration: 4.3h
🗆 🛛 Test Case	e Name		Owner		Priority	Est. Duration	Act. Duration	Last Executed	Execution Status	Test Case #	Edit
🔲 🖉 Ability	to create new book				1 - Critical	0.2h	1.3h	1-Dec-2003	Failed	TC000002	► Edit
Ability	to edit existing book		None	• • •	1 - Critical	0.1h	1.5h	1-Dec-2003	Passed	TC000003	UpdateCancel
🔲 🖉 Ability	to create new author				1 - Critical	0.1h	1.5h	1-Dec-2003	Failed	TC000004	► Edit
Ability	to edit existing author				2 - High	0.1h			Not Run	TC000005	► Edit
Ability	to reassign book to di	fferent author			2 - High	0.1h			Not Run	TC000006	► Edit
Book I	management				2 - High	0.1h			Not Run	TC000008	► Edit
Author	management				2 - High	0.1h			Not Run	TC000009	► Edit
Show 15 Trows	s per page								🛛 🖛 Disp	laving page 1	Sa of 1 ► ►

To add a new test case to the Test Set, you need to click on the "Add Test Cases" hyperlink to display the popup dialog box:

-	Add Test Case Choose the test ca	to the Test Set ase(s) to add to the current test set:		X
	✓ Test Case			
Ĩ	📃 🖻 🖻 Func	tional Tests	<u>^</u>	
-	🗹 🗄 Abi	lity to create new book		1
	🔲 🗄 Abi	lity to edit existing book	≡	
	🗆 🗄 Abi	lity to create new author		1
	🗆 🗄 Abi	lity to edit existing author		1
	🗆 🗄 Abi	lity to reassign book to different author		1
		· -	(v	1
I.E			> Add Cancel	

You can then select the checkboxes of the individual test cases or whole folders of test cases that you want to add to the test set. Once you have selected the desired items, click the <Add> button to actually add them to the test set.

Test cases in SpiraTeam can have parameters defined which are available to specify the text that should be used to replace certain tokens in the test case. In addition these parameters may be used by certain test automation engines. In addition to being able to specify the parameter values when linking the test cases as test steps of a parent test case, you can also specify the parameter values from the Test Set.

To view/edit the parameter values being set by the test case, you should either select the checkbox of a test set and click "Edit Parameters" at the top of the section, or right-click on the test case and choose "Edit Parameters":

	U	Test Case Name	Owner	r Priority	Est. Duration	Act. Duration	Last Executed	Execution Sta	itus Test Case #
	U	Ability to create new book		1 - Critica	0.2h	1.3h	1-Dec-2003	Failed	TC000002
V		Ability to edit existing book		1 Critica	0.1h	1.5h	1-Dec-2003	Passed	TC000003
	U	Ability to create new author	sert Test C emove Test	ica	0.1h	1.5h	1-Dec-2003	Failed	TC000004
		Ability to adit evicting outbox	lit Pa				1	X	TC000005
		Ability to reassign book to differen	— Ed	it Test Cas	se Parameters	5			TC000006
		Book management	(ecute	lease fill ou		TC000008			
		Author management		rowserName	-		use entry.	n I	TC000009
Sh	ow	15 🔻 rows per page			Salali			sp	laying page 1
Ter				gin:	fred1			=	
100	nan	ge the order of the test cases, please click o	n the pa	assword:	unknown				
tion	Spir	aTeam v3.0 (Beta)	u	d:	www.testin	g.com		~	inflact
	1		<					>	inflect
							> Update	Cancel	

You can then specify the values of the parameters that the test set will pass to the test case. Once you have entered / modified the values, click [Update] to commit the changes.

5.8.2. Test Runs

This view displays the list of all the test runs executed against the test set. Each test run is listed together with the date of execution, the name of the test case, the name of the tester, the release/version of the system that the test was executed against, the overall execution status for the test case in that run and a link to the actual test run details (see section 5.6). In addition, you can choose to display any of the custom properties associated with the test run.

> <u>Ref</u>	esh Apply Filter Clear Filter	s - Show/hide colum	ns – 🔻 🔻							
/ 0	Test Run Name ▲▼	Execution Date AV	Test Set ▲▼	Release ▲▼	Status AV	Est. Dur. ▲▼	Act. Dur. AV	Web Browser AV	Operating System ▲▼	Run # A
			Testing Cycle f 🔻	Any 🔻	- Any - 🔻			- Any - 🔻	- Any - 🔻	TR
	Ability to create new author	1-Dec-2003	Testing Cycle for Release 1.0	<u>1.0.0.0</u>	Failed	0.1h	1.5h			TR000004
	Ability to edit existing book	1-Dec-2003	Testing Cycle for Release 1.0	<u>1.0.0.0</u>	Passed	0.1h	1.5h			TR000003
•	Ability to create new book	1-Dec-2003	Testing Cycle for Release 1.0	<u>1.0.0.0</u>	Failed	0.2h	1.3h	Internet Explorer	Windows XP	TR000001

The "customize columns" drop-down list allows you to change the fields that are displayed in the test run list as columns. To show a column that is not already displayed, simply select that column from the list of "Show..." column names and to hide an existing column, simply select that column from the list of "Hide..." column names. The displayed columns can be any standard field or custom property.

You can also filter the results by choosing items from the filter options displayed in the sub-header row of each field and clicking the "Apply Filter" link. In addition, you can quickly sort the list by clicking on one of the directional arrow icons displayed in the header row of the appropriate field.

5.8.3. Comments

The Comments tab allows users to add and view discussions relating to the test set:

Test Cases *	Test Runs *	Comments	Custom Props *	Attachments	History							
To add a new comment to this requirement, please enter it below and click the [Save] button: - Font												
Font	Size	▼ B <i>I</i> U	ॾॾॿ ⋸Е	健健 %-% -	@ 🗖 🗖 🗘 💆		1					
Existing Com	ments]					

Existing comments are displayed in order underneath the textbox in date order. To add a new comment, simply enter it into the textbox, and click the Save button.

5.8.4. Custom Properties

In this mode, the main pane displays any custom properties that the project owner has defined for test sets. To learn more about how to setup and configure custom properties for a project, please refer to the *SpiraTest Administration Guide*.

Test Cases *	Test Runs *	Comments	Custom Props *	Attachments	History	
The following are the	custom properties of	this artifact:				
Notes:						
Operating System	: Windows 7				▼	

Assuming that custom properties have been defined for your project, you will see a list of optional parameters that can be set on the test set. These can be either freetext or drop-down-lists. If you want any of the custom list properties to prepopulate the corresponding value of the test run (e.g. you want all test runs to be marked with Operating System = Windows XP) make sure that both the test set and the test run are configured to use the same custom list.

5.8.5. Attachments

In this mode, the main pane displays the list of documents that have been "attached" to the test set. The documents can be in any format, though SpiraTeam® will only display the icon for certain known types.

Test Cases *	Test Runs *	Comments	Custom Props #	ŧ	Attachments	History						
> Add New Add	Existing Remove	Refresh Apply Filte	er <u>Clear Filter</u>	🔳 In	clude Source Code D	ocuments						
✓ Document M	lame ▲▼		Type ▲▼	Siz	e ▲▼	Edited By ▲▼	Edited On ▲▼	Author A	ID ▲▼			
			Any 🔻 🔻			- Any - 🔻		- Any - 🔻	DC			
http://ww	w.mycompany.com/Re	latedInformation	Stack Trace	0 K	В	Fred Bloggs	19-Dec-2011	Fred Bloggs	DC000047			
	Show 15 V rows per page 1 S of 1 V V											

The attachment list includes the filename that was originally uploaded together with the file-size (in KB), name of the person who attached it and the date uploaded. In addition, if you position the pointer over the filename and hold it there for a few seconds, a detailed description is displayed as a tooltip.

To actually view the document, simply click on the filename hyperlink and a new web browser window will open. Depending on the type of file, this window will either display the document or prompt you for a place to save it on your local computer. To remove an existing attachment from a test set, simply click the <Remove> button and the attachment will be removed from the list.

If you are using SpiraPlan or SpiraTeam (but not SpiraTest) you can also choose to include file attachments stored in a linked version control system (e.g. Subversion, CVS, Perforce, etc.) by selecting the "Include Source Code Documents" option.

To attach a new document or web link to the test set, you need to click on the "Add New" hyperlink to open the "Add Attachment" dialog box.

Filename:*	● File ○ URL ○ Sci	Browse	Add New Docume Type:* URL:*	O File ⊙ URL	O Screenshot	Add New Docum Type:* Screenshot:*	○ File ○ URL ⊙ Scre	eenshot
Description: Document Type:* Document Folder:*	Functional Specification	▼	Description: Document Type:* Document Folder:*	Functional Specification	V		> Paste image from clipboard	
Tags:		> Upload Cancel	Tags:		> Upload Cance	Description: Document Type:*	Functional Specification	×.
						Document Folder: Tags:		Upload I Cancel

There are three different types of item that can be attached to a test set:

- To upload a file, choose "File" as the type and then click the Browse button and select the file from your local computer, optionally enter a detailed description then click the <Upload> button. The document will be copied from your computer and attached to the artifact.
- To attach a web-link (URL) to the artifact, you need to choose "URL" as the type and then enter the fully qualified URL (e.g. <u>http://mywebsite.com?Document=1</u>), an optional description and then click the <Upload> button to attach the web-link.
- To attach a screenshot to the artifact, you need to choose "Screenshot" as the type and then copy the image to your computer's clipboard (e.g. on Windows computers, the PRINT SCREEN button captures the current page and adds to the clipboard). Once the image is in the clipboard, click on the "Paste image from clipboard" hyperlink and the item will appear in the preview window. You can then fill in the other fields and click <Upload> to attach the image.

Note: If you are using a non-Windows® computer (e.g. Macintosh®) that doesn't put file extensions on filenames (e.g. .xls for an Excel sheet) automatically, then you will need to manually add the file extension to the filename before uploading if you want it to be displayed with the correct icon in the attachment list.

You can also associate an existing document (that's already stored in SpiraTeam) with the test set. To do that, click on the "Add Existing" hyperlink to bring up the add file association dialog box:

Add Existing Document Choose the location of existing document that you'd like to add:	X	Add Existing Document Choose the location of existing document that you'd like to add: Documents Source Code						
Folder Image: EditExistingBook Image: Misc Documents Image: Specifications Image: Expected Result Screen Image: Specifications Image: Test Results Image: Test Scripts	t.jp -shi ►	Folder	Image: Constraint of the second se					

You can then choose to either associate a document stored in the SpiraTeam Documents repository or (in the case of SpiraPlan/SpiraTeam but not SpiraTest) from the linked source code repository. In either case you first select the appropriate folder, and then pick the document(s) from the file list on the right. In the case of a source code file association you can also add a comment.

5.8.6. History

In this mode, the main pane displays the list of changes that have been performed on the test set artifact since its creation. The change history displays the date that each change was made, together with the fields that were changed, the old and new values and the person who made the change. This allows a complete audit trail to be maintained of all changes in the system. In addition, if you are logged in as a project administrator you can also click on the "Admin View" hyperlink to revert any unwanted changes.

5.9. Automation Host List

This section outlines how to use the Automation Host Management features of SpiraTeam® to manage the different host systems that will be running automated tests in your environment. Typically when scheduling automated tests you will want to execute the same tests on multiple computers running different environments.

SpiraTeam allows you to build a master list of automation hosts in each project, which can be used to schedule test sets containing automated test cases against. Please refer to the Test Set section of this manual for more information on managing and scheduling test sets.

When you click on the Testing > Automation Hosts global navigation link, you will initially be taken to the automation host list screen illustrated below:

spiraTeam	Welcome, Fred Bloggs My Pro	ofile Administration	Log Out Ubrary Information	System 🔻		Help?			
	My Page Project Home	Planning	Testing Tracking	Reporting					
Test Cases Test Sets Test Runs	Automation Hosts					Role: Manager			
New Host 🗱 Delete 🛛 🗞 Refresh	- Show/hide columns 🔻	Filter							
Displaying 1 - 4 out of 4 automation hosts(s) f	or this project								
✓ Ø Host Name ▲▼	Token ▲▼	Active ▲▼	Last Modified ▲▼	Host # ▲▼	Web Browser ▲▼	Operating System ▲▼			
		- Any 🔻		AH	Any 🔻	- Any 🔻			
Windows XP Host	WinXP	Yes	1-May-2009	AH000001	Internet Explorer	Windows XP			
Windows Vista Host #1	WinVista1	Yes	2-May-2009	AH000002	Internet Explorer	Windows Vista			
Windows Vista Host #2	WinVista2	Yes	3-May-2009	AH000003	Mozilla / Firefox	Windows Vista			
Windows 7 Host	Win7	Yes	4-May-2009	AH000004	Internet Explorer	Windows 7			
Show 15 🔻 rows per page 1 S of 1 >>>									

The automation host list screen displays all the automation hosts entered for the current project, in a filterable, sortable grid. The grid displays the automation host ID together with fields such as name, description, last modified, token, and any custom properties. The choice of columns displayed is configurable per-user, per-project, giving extensive flexibility when it comes to viewing and searching automation hosts.

In addition, you can view a more detailed description of the automation host by positioning the mouse pointer over the host name hyperlink and waiting for the popup "tooltip" to appear. If you click on the host name hyperlink, you will be taken to the automation host details page described in section 5.9.2. Clicking on any of the pagination links at the bottom of the page will advance you to the next set of hosts in the list according to the applied filter and sort-order. There is also a drop-down-list at the bottom of the page which allows you to specify how many rows should be displayed in each page, helping accommodate different user preferences.

One special column that is unique to automation hosts is the "Token" field. This needs to contain a short textual identifier that uniquely identifies each automation host in the project. This will be used by each host computer to identify itself to SpiraTeam.

5.9.1. Sorting and Filtering

You can easily filter and sort the list of automation hosts as illustrated in the screen-shot below:

spiraTeam	Welcome, Fred Bloggs My	Welcome, Fred Bloggs My Profile Administration Log Out Ubray Information System								
Spirarcai	My Page Project Home	Planning	Testing Tracking	Reporting						
Test Cases Test Sets Test Runs	Automation Hosts					Role: Manager				
🕂 New Host 🗱 Delete 🛛 🗞 Refresh	- Show/hide columns 🔻	Filter								
Displaying 1 - 3 out of 3 automation hosts(s) for this project										
✓ 🐵 Host Name ▲▼	Token ▲▼	Active ▲▼	Last Modified ▲▼	Host # ∆ ▼	Web Browser ▲▼	Operating System ▲▼				
		Any 🔻		AH	Internet Explore 🔻	- Any 🔻				
Windows XP Host	WinXP	Yes	1-May-2009	AH000001	Internet Explorer	Windows XP				
Windows Vista Host #1	WinVista1	Yes	2-May-2009	AH000002	Internet Explorer	Windows Vista				
Windows 7 Host	Win7	Yes	4-May-2009	AH000004	Internet Explorer	Windows 7				
Show 15 ▼ rows per page H ⊲ Displaying page 1 ♥ of 1 ► ►										

To filter the list by one of the displayed fields, you simply choose an item from the appropriate drop-down list or enter a free-text phrase then click <Filter> or press the <ENTER> key to apply the different filters. Note that the name field is searched using a "LIKE" comparison, so that searching for "database" would include any item with the word database in the name. The other freetext fields need to be exact matches (e.g. dates, incident numbers).

To change the column that is sorted, or to change the direction of the current sort, simply click on the up/down arrow icon in the appropriate column. The currently sorted column is indicated by the larger, white arrow with the back-border.

Clicking on Filter > Clear Filter removes any set filters and expands the host list to display all automation hosts in the current project, and clicking on Filter > Save Filter allows you to save the filter to your 'My Page' for use in the future. The list of saved filters can also be retrieved by clicking Filter > Retrieve Filter.

5.9.2. New Host

Clicking on the <New Host> button adds a new automation host to the list with a default name and token.

5.9.3. Delete

Clicking on the <Delete> button deletes the automation hosts whose check-boxes have been selected in the host list.

5.9.4. Refresh

Clicking on the <Refresh> button simply reloads the list of automation hosts; this is useful when new hosts are being added by other users, and you want to make sure you have the most up-to-date list displayed.

5.9.5. Show / Hide Columns

This drop-down list allows you to change the fields that are displayed in the host list as columns for the current project. To show a column that is not already displayed, simply select that column from the list of "Show..." column names and to hide an existing column, simply select that column from the list of "Hide..." column names. This is stored on a per-project basis, so you can have different display settings for each project that you are a member of. The fields can be any of the built-in fields or any of the custom properties set up by the project owner.

5.9.6. Edit

Each automation host in the list has an <Edit> button display in its right-most column. When you click this button or just *double-click* on any of the cells in the row, you change the item from "View" mode to "Edit" mode. The various columns are made editable, and <Update> <Cancel> buttons are displayed in the last column

If you click <Edit> on more than one row, the <Update> and <Cancel> buttons are only displayed on the first row, and you can make changes to all the editable rows and then update the changes by clicking the one <Update> button. Also, if you want to make the same change to multiple rows (e.g. to change five automation hosts from Active = No to Active = Yes), you can click on the "fill" icon to the right of the editable item, which will propagate the new value to all editable items in the same column.

If you want to edit lots of items, first select their checkboxes and then click the [Edit] button on the same row as the Filters and it will switch all the selected items into edit mode.

When you have made your updates, you can either click <Update> to commit the changes, or <Cancel> to revert back to the original information. Alternatively, pressing the <ENTER> key will commit the changes and pressing the <ESCAPE> key will cancel the changes.

5.10. Automation Host Details

When you click on an automation host entry in the host list, you are taken to the automation host details page illustrated below:

spiraTeam	Welcome, Fred Bloggs Library My Page Project Ho		y Profile Administration Lo Testing Tracking	g Out I Search →	
Test Cases Test Sets Test Runs	Automation Hosts > Automa	tion Host Details			
<< Back to Host List	🖺 Save 🛛 🖗 Refresh	🗱 <u>Delete</u>			
Display: Current Filter Windows XP Host Windows Vista Host #1 Windows Vista Host #2 Windows 7 Host	Name*: Windo Description: - Font	dows XP Host [AH:0000 ws XP Host - Size - vs XP with IE7, Firefox 2, Chro	▼ B I ∐ ≣≣≣	────────────────────────────────────	œ∎∎ ↔ Ø
	Token*: WinXP			Active*: Yes Last Updated: 5/1/2	▼ 009 12:00:00 AM
	Test Runs	Custom Props *	Attachments	History	

This page is made up of three areas; the left pane is the navigation window, the upper part of the right pane contains the automation host detailed information itself, and the bottom part of the right pane displays different information associated with the automation host.

The navigation pane consists of a link that will take you back to the host list, as well as a list of the peer automation hosts to the one selected. This latter list is useful as a navigation shortcut; you can quickly view the peer hosts by clicking on the navigation links without having to first return to the host list page. The navigation list can be switched between two different modes:

- The list of hosts matching the current filter
- The list of all hosts, irrespective of the current filter

The top part of the right pane allows you to view and/or edit the details of the particular automation host. You can edit the various fields (name, description, token, etc.) and once you are satisfied with them, simply click either the <Save> or <Save and New> button at the top of the page to commit the changes. In addition you can delete the current artifact by choosing <Delete>, or discard any changes made by clicking <Refresh>.

5.10.1. Test Runs

This view displays the list of all the test runs executed against the automation host. Each test run is listed together with the date of execution, the name of the test case, the name of the tester, the release/version of the system that the test was executed against, the name of the test set (if applicable), the overall execution status for the test case in that run and a link to the actual test run details (see section 5.6). In addition, you can choose to display any of the custom properties associated with the test run.

	Te	est Runs *	Custom Prope	erties *	Attach	ments		History							
>	Refresh Apply Filter Clear Filters - Show/hide columns -														
~	U	Test Run Name	▲ ▼	Execution	n Date ▲▼	Test Set A	V	Type ▲▼		Release ▲▼	Status ▲▼	1	Est. Dur. ▲▼	Act. Dur. ▲▼	Web Brows
	1					- Any -	▼	Any	▼	Any 🔻 🔻	- Any -	7			Any
	1	Ability to crea	ate new author	4-Dec-200	3			Automated		1.1.0.0.0003	Caution		0.2h	1.2h	
	1	Ability to edit	existing book	4-Dec-200	3			Automated		<u>1.1.0.0.0003</u>	Failed		0.1h	1.2h	
		Ability to crea	ate new book	4-Dec-200	3			Automated		<u>1.1.0.0.0003</u>	Failed		0.0h	1.2h	

The "customize columns" drop-down list allows you to change the fields that are displayed in the test run list as columns. To show a column that is not already displayed, simply select that column from the list of "Show..." column names and to hide an existing column, simply select that column from the list of "Hide..." column names. The displayed columns can be any standard field or custom property.

You can also filter the results by choosing items from the filter options displayed in the sub-header row of each field and clicking the "Apply Filter" link. In addition, you can quickly sort the list by clicking on one of the directional arrow icons displayed in the header row of the appropriate field.

5.10.2. Custom Properties

In this mode, the main pane displays any custom properties that the project owner has defined for automation hosts. To learn more about how to setup and configure custom properties for a project, please refer to the *SpiraTest Administration Guide*. Assuming that custom properties have been defined for your project, you will see a list of optional parameters that can be set on the host. These can be either freetext or drop-down-lists.

Test Runs *	Custom Properties *	Attachments	History	
The following are the cust	om properties of this artifa	ct:		
Web Browser:	Internet Explorer			•
Operating System:	Windows 7			▼

Once you are satisfied with the values for the custom properties, simply click [Save] or [Save and New] to commit the changes.

5.10.3. Attachments

In this mode, the main pane displays the list of documents, screenshots or web-links (URLs) that have been "attached" to the automation host. The documents can be in any format, though SpiraTeam® will only display the icon for certain known types.

If you are using SpiraPlan or SpiraTeam (but not SpiraTest) you can also choose to include file attachments stored in a linked version control system (e.g. Subversion, CVS, Perforce, etc.) by selecting the "Include Source Code Documents" option.

To attach a new document to the automation host, you need to first click the "Add New" hyperlink to display the new attachment dialog box. There are three different types of item that can be attached to an automation host:

- To upload a file, choose "File" as the type and then click the Browse button and select the file from your local computer, optionally enter a detailed description then click the <Upload> button. The document will be copied from your computer and attached to the artifact.
- To attach a web-link (URL) to the artifact, you need to choose "URL" as the type and then enter the fully qualified URL (e.g. <u>http://mywebsite.com?Document=1</u>), an optional description and then click the <Upload> button to attach the web-link.
- To attach a screenshot to the artifact, you need to choose "Screenshot" as the type and then copy the image to your computer's clipboard (e.g. on Windows computers, the PRINT SCREEN button captures the current page and adds to the clipboard). Once the image is in the clipboard, click on the "Paste image from clipboard" hyperlink and the item will appear in the preview window. You can then fill in the other fields and click <Upload> to attach the image.

Note: If you are using a non-Windows® computer (e.g. Macintosh®) that doesn't put file extensions on filenames (e.g. .xls for an Excel sheet) automatically, then you will need to manually add the file extension to the filename before uploading if you want it to be displayed with the correct icon in the attachment list.

You can also associate an existing document (that's already stored in SpiraTeam) with the automation host. To do that, click on the "Add Existing" hyperlink to bring up the add file association dialog box. You can then choose to either associate a document stored in the SpiraTeam Documents repository or (in the case of SpiraPlan/SpiraTeam but not SpiraTest) from the linked source code repository. In either case you first select the appropriate folder, and then pick the document(s) from the file list on the right. In the case of a source code file association you can also add a comment.

5.10.4. History

In this mode, the main pane displays the list of changes that have been performed on the automation host artifact since its creation. The change history displays the date that each change was made, together with the fields that were changed, the old and new values and the person who made the change. This allows a complete audit trail to be maintained of all changes in the system. In addition, if you are logged in as a project administrator you can also click on the "Admin View" hyperlink to revert any unwanted changes.

6. Incident Tracking

This section outlines how the incident/defect tracking features of SpiraTeam® can be used to manage key project artifacts during the software development lifecycle. In addition to managing the defects raised during the execution of test cases in the test management module, the Incident Tracker is also a powerful risk/issue/bug tracking system in its own right. When coupled with the project dashboard (see section 3.4) it is a powerful tool for representing all the key risks and issues associated with a project in a single, graphical format.

Unlike a standalone bug/issue tracking tool however, you can trace the incidents/defects back to the test case and the underlying requirement that generated them, giving the project manager unprecedented power in analyzing the "in-process" quality of a system during its lifecycle. This power is clearly illustrated in the "Requirement Incident Count" pane in the Project Home dashboard (see section 3.4.4).

6.1. Incident List

When you click on the Tracking > Incidents global navigation link, you will initially be taken to the incidents list screen illustrated below:

	My Page	Project Home	Planning T	esting Track	ing Reporting				
cide	nts Tasks Resources Source Code							Role: P	roject Ow
Nev	w Incident 🗱 Delete 🛛 🗞 Refresh 🛛 🕞 🤅	Copy 🔅 Tools - St	how/hide columns	T Filter					
isplay	ying 16 - 30 out of 60 incident(s) for this project								
1	Incident Name ▲▼	Type ▲▼	Status ▲▼	Priority △▼	Detected By ▲▼	Creation Date ▲▼	Owner ▲▼	ID AV	Edit
		- Any - 🔻	- Any - 🔻	- Any 🔻	- Any 🔻		- Any 🔻	IN	► Edit
23	Ability to generate customized reports	Enhancement	Resolved	1 - Critical	Joe P Smith	25-Nov-2003	Joe P Smith	IN000025	+ Edit
	Ability to associate multiple authors	Enhancement	Duplicate	1 - Critical	Fred Bloggs	25-Nov-2003		IN000029	+ Edit
8	Section 508 compliance	Issue	Closed	1 - Critical	Fred Bloggs	2-Dec-2003	Joe P Smith	IN000035	+ Edit
1	Test Training Item	Training	Assigned	1 - Critical	Fred Bloggs	3-Dec-2003	Fred Bloggs	IN000040	► Edit
	Test System Limitation	Limitation	Open	1 - Critical	Fred Bloggs	4-Dec-2003		IN000045	• Edit
8	Test System Limitation	Limitation	Assigned	1 - Critical	Joe P Smith	4-Dec-2003	Fred Bloggs	IN000046	► Edit
3	Test System Limitation	Limitation	Duplicate	1 - Critical	Joe P Smith	5-Dec-2003	Fred Bloggs	IN000050	► Edit
	Test Change Request	Change Request	Closed	1 - Critical	Fred Bloggs	8-Dec-2003	Joe P Smith	IN000055	► Edit
3	Sample Risk 1	Risk	Open	1 - Critical	Fred Bloggs	10-Dec-2003		IN000059	► Edit
8	Configurable meta-data columns	Enhancement	Resolved	2 - High	Joe P Smith	25-Nov-2003	Joe P Smith	IN000026	► Edit
3	Integration of security with NTLM/PKI	Enhancement	Assigned	2 - High	Joe P Smith	18-Nov-2003	Joe P Smith	IN000022	► Edit
	Support for IBM DB2	Enhancement	Open	2 - High	Fred Bloggs	17-Nov-2003		IN000019	► Edit
0	The homepage hangs whilst loading	Bug	Not Reproducible	2 - High	Joe P Smith	15-Nov-2003	Fred Bloggs	IN000016	► Edit
1	Sugar And	Bug	Resolved	2 - High	Fred Bloggs	15-Nov-2003	Fred Bloggs	IN000012	► Edit
1	Editing the date on a book is clunky	Bug	Assigned	2 - High	Joe P Smith	4-Nov-2003	Fred Bloggs	IN000008	► Edit

The incident list screen displays all the incidents entered for the current project, in a filterable, sortable grid. The grid displays the incident number together with fields such as incident type (bug, issue, risk, etc.), status (new, open, etc.), priority, name, assigned owner, detection date, detector, closed date, etc. The choice of columns displayed is configurable per-user, per-project, giving extensive flexibility when it comes to viewing and searching incidents.

In addition, you can view a more detailed description of the incident (along with a resolution if any) by positioning the mouse pointer over the incident name hyperlink and waiting for the popup "tooltip" to appear. If you click on the incident name hyperlink, you will be taken to the incident details page described in section 6.2. Clicking on any of the pagination links at the bottom of the page will advance you to the next set of incidents in the list according to the applied filter and sort-order. There is also a drop-down-list at the bottom of the page which allows you to specify how many rows should be displayed in each page, helping accommodate different user preferences.

6.1.1. Sorting and Filtering

You can easily filter and sort the list of incidents as illustrated in the screen-shot below:

6	ni	iraTeam	elcome, Fred	Bloggs	My Profile Lo	og Out Library In	formation System	×				Help?
5			Page	Project I	Home Plan	ning Test	ing Tracki	ing Report	ing			
Incid	lent	s <u>Tasks</u>									Role	e: Manager
∲ N	ew Ir	ncident 🗱 Delete 🔹 🧞 Refresh 🛛	- Copy	Export	Show/hide	columns 💌	Tilter					
Displ	isplaying 1 - 14 out of 14 incident(s) for this project											
\checkmark	8	Incident Name 🔺 🔻	Type ▲▼	'	Status ▲▼	Priority ▲▼	Detected By ▲▼	Owned By ▲▼	Closed On ▲▼	Operating System ▲▼	Inc. # ▲▼	Edit
			Bug	•	Any 🔻	Any 🔻	Any 🔻	Any 🔻		Any 🔻	IN	► Filter
		Cannot add a new book to the system	Bug		Duplicate		Fred Bloggs	Fred Bloggs			IN000017	► Edit
		Database not backing up correctly	Bug		Open		Joe P Smith				IN000004	► Edit
		Cannot install system on Oracle 9i	Bug		Open	1 - Critical	Fred Bloggs				IN000005	► Edit
	0	Cannot add a new book to the system	Bug		Assigned	1 - Critical	Joe P Smith	Joe P Smith		Windows XP	IN000007	► Edit
		Validation on the edit book page	Bug		Resolved	1 - Critical	Fred Bloggs	Joe P Smith			IN000011	► Edit
		Session handling	Bug		Closed	1 - Critical	Joe P Smith	Joe P Smith	21-Nov-2003		IN000015	► Edit
		The homepage hangs whilst loading	Bug		Not Reproducible	2 - High	Joe P Smith	Fred Bloggs			IN000016	► Edit
		Quote handling issues throughout	Bug		Resolved	2 - High	Fred Bloggs	Fred Bloggs			IN000012	► Edit
	0	Editing the date on a book is clunky	Bug		Assigned	2 - High	Joe P Smith	Fred Bloggs			IN000008	► Edit
		The book listing screen doesn't sort	Bug		Open	3 - Medium	Joe P Smith			Windows 2003	IN000006	► Edit
		Editing the date on an author is clunky	Bug		Assigned	3 - Medium	Joe P Smith	Joe P Smith			IN000009	► Edit
		The tables get cutoff on low-res modes	Bug		Closed	3 - Medium	Joe P Smith	Joe P Smith	20-Nov-2003		IN000013	► Edit
		Permissions not updating when change	d Bug		Closed	4 - Low	Joe P Smith	Fred Bloggs	21-Nov-2003		IN000014	► Edit
		Doesn't let me add a new category	Bug		Resolved	4 - Low	Fred Bloggs	Fred Bloggs			IN000010	► Edit
Sho	Show 15 🔻 rows per page 🔲 📽 of 1 🕨 🖃											

To filter the list by incident type, status, priority, owner or detector name, you simply choose an item from the appropriate drop-down list, and for the other fields, you enter a free-text phrase then click <Filter> or press the <ENTER> key to apply the different filters. Note that the name field is searched using a "LIKE" comparison, so that searching for "database" would include any item with the word database in the name. The other freetext fields need to be exact matches (e.g. dates, incident numbers). There are also several aggregate filters that are used to filter on multiple values at once (e.g. filtering status on (All Open) will return any incident that is in one of the open statuses – new, open, assigned, reopen).

To change the column that is sorted, or to change the direction of the current sort, simply click on the up/down arrow icon in the appropriate column. The currently sorted column is indicated by the larger, white arrow with the back-border. In the screen-shot above, we are filtering on type=bug and sorting by decreasing priority.

Clicking on Filter > Clear Filter removes any set filters and expands the incident list to display all incidents for the current project, and clicking on Filter > Save Filter allows you to save the filter to your 'My Page' for use in the future. The list of saved filters can also be retrieved by clicking Filter > Retrieve Filter.

6.1.2. New Incident

Clicking on the <New Incident> button takes you to the new incident screen. This is essentially the same screen as the incident details screen shown in section 6.2 except that the <Update> button is replaced by an <Insert> button, and depending on how the workflow has been configured for your project, certain fields may be disabled. For more details on setting and up configuring workflow for your project, please refer to the *SpiraTest Administration Guide*.

6.1.3. Delete

Clicking on the <Delete> button deletes the incidents whose check-boxes have been selected in the incident list.

6.1.4. Refresh

Clicking on the <Refresh> button simply reloads the list of incidents; this is useful when new incidents are being added by other users, and you want to make sure you have the most up-to-date list displayed.

6.1.5. Show / Hide Columns

This drop-down list allows you to change the fields that are displayed in the incident list as columns for the current project. To show a column that is not already displayed, simply select that column from the list of "Show..." column names and to hide an existing column, simply select that column from the list of "Hide..." column names. This is stored on a per-project basis, so you can have different display settings for each project that you are a member of. The fields can be any of the built-in fields or any of the custom properties set up by the project owner.

6.1.6. Edit

Each incident in the list has an <Edit> button display in its right-most column. When you click this button or just *double-click* on any of the cells in the row, you change the item from "View" mode to "Edit" mode. The various columns are made editable, and <Update> <Cancel> buttons are displayed in the last column:

spiraTeam	elcome, S	ystem Admin	strator	My Profile	Admini	stration Lo	g Out	Library Information	ion Syster	m 💌				Help?
Му	Page	Project Ho	me	Planning	1	Testing	Trac	king	Reportin	g				
Incidents <u>Tasks</u>													Role: Pro	oject Owner
🕂 New Incident 🗱 Delete 🛱 Refresh	Copy	Export Export	Sho	w/hide colun	nns 👔	 Filte 	ŗ							
Displaying 1 - 14 out of 14 incident(s) for this project														
✓ 🖲 Incident Name ▲▼		Type ▲▼		Status ▲▼		Priority ▲	'	Detected By		Detected On ▲▼	Owned By A	•	Inc. # ▲▼	Edit
		Bug	•	Any	•	Any	•	Any	•		Any	•	IN	Filter
Cannot add a new book to the system		Bug		Duplicate				Fred Bloggs		15-Nov-2003	Fred Bloggs		IN000017	► Edit
Database not backing up correctly		Bug		Open				Joe P Smith		2-Nov-2003			IN000004	► Edit
Cannot install system on Oracle 9i		Bug	▼ =↓	Open	▼ =1	1 - Critical	▼ =1	Fred Bloggs	V II	2-Nov-2003	None	▼ =1		Update Cancel
Cannot add a new book to the system		Bug	•	Assigned	T	1 - Critical	•	Joe P Smith	•	4-Nov-2003	Joe P Smith	•		
Validation on the edit book page		Bug		Resolved		1 - Critical		Fred Bloggs		15-Nov-2003	Joe P Smith		IN000011	► Edit
Session handling		Bug		Closed		1 - Critical		Joe P Smith		15-Nov-2003	Joe P Smith		IN000015	► Edit
The homepage hangs whilst loading		Bug		Not Reprodu	ucible	2 - High		Joe P Smith		15-Nov-2003	Fred Bloggs		IN000016	► Edit
Quote handling issues throughout		Bug		Resolved		2 - High		Fred Bloggs		15-Nov-2003	Fred Bloggs		IN000012	► Edit
Editing the date on a book is clunky		Bug		Assigned		2 - High		Joe P Smith		4-Nov-2003	Fred Bloggs		IN000008	► Edit
Image:		Bug		Open		3 - Medium		Joe P Smith		2-Nov-2003			IN000006	► Edit
Editing the date on an author is clunky		Bug		Assigned		3 - Medium		Joe P Smith		4-Nov-2003	Joe P Smith		IN000009	► Edit
The tables get cutoff on low-res modes		Bug		Closed		3 - Medium		Joe P Smith		15-Nov-2003	Joe P Smith		IN000013	► Edit
Permissions not updating when change	d	Bug		Closed		4 - Low		Joe P Smith		15-Nov-2003	Fred Bloggs		IN000014	► Edit
Doesn't let me add a new category		Bug		Resolved		4 - Low		Fred Bloggs		4-Nov-2003	Fred Bloggs		IN000010	► Edit
Show 15 Trows per page											⊨ ⊲ D	isplayir	g page 1	Sof 1 ⊫ ⊨

If you click <Edit> on more than one row, the <Update> and <Cancel> buttons are only displayed on the first row, and you can make changes to all the editable rows and then update the changes by clicking the one <Update> button. Also, if you want to make the same change to multiple rows (e.g. to change five incidents from "Resolved" status to "Closed"), you can click on the "fill" icon to the right of the editable item, which will propagate the new value to all editable items in the same column.

If you want to edit lots of items, first select their checkboxes and then click the [Edit] button on the same row as the Filters and it will switch all the selected items into edit mode.

When you have made your updates, you can either click <Update> to commit the changes, or <Cancel> to revert back to the original information. Alternatively, pressing the <ENTER> key will commit the changes and pressing the <ESCAPE> key will cancel the changes.

Note that in the case of incidents, you need to have Project Owner permissions for the project to make bulk changes using the <Edit> button as such changes can override the workflow business rules established.

6.1.7. Copying Incidents

To copy an incident or set of incidents, simply select the check-boxes of the incidents you want to copy and then click <Copy>. This will make a copy of the current incident with its name prefixed 'Copy of' to distinguish itself from the original. Any file attachments will also be copied along with the incident itself.

6.1.8. Exporting Incidents

To export an incident or set of incidents from the current project to another project in the system, all you need to do is select the check-boxes of the incident(s) you want to export and then click the Tools > Export icon. This will then bring up a list of possible destination projects:

		e Project Hor	ne Planning Te	esting Track	ting Reporting				
nciden	ts Tasks Resources Source Code			2010-102				Role: P	roject Ow
New	Incident 🗱 Delete 🛛 🗟 Refresh 🛛 🕒	Copy 🔅 Tools	Show/hide columns	T Filter					
isplayi	ing 16 - 30 out of 60 incident(s) for this project	1	26.2 10.000						
1	Incident Name ▲▼	Type ▲▼	Export Items		Detected By ▲▼	Creation Date AV	Owner ▲▼	ID AV	Edit
		- Any -	Please select the project you	want to export to:	-Any-		- Any - 🔻	IN	► Edit
23	Ability to generate customized reports	Enhanceme	Sample Application One		Joe P Smith	25-Nov-2003	Joe P Smith	IN000025	+ Edit
	Ability to associate multiple authors	Enhanceme			Fred Bloggs	25-Nov-2003		IN000029	► Edit
6	Section 508 compliance	Issue			Fred Bloggs	2-Dec-2003	Joe P Smith	IN000035	► Edit
	E Test Training Item	Training	> [xport Cancel	Fred Bloggs	3-Dec-2003	Fred Bloggs	IN000040	+ Edit
V	Test System Limitation	Limitation	Open	1 - Critical	Fred Bloggs	4-Dec-2003		IN000045	► Edit
7	Test System Limitation	Limitation	Assigned	1 - Critical	Joe P Smith	4-Dec-2003	Fred Bloggs	IN000046	► Edit
8	Test System Limitation	Limitation	Duplicate	1 - Critical	Joe P Smith	5-Dec-2003	Fred Bloggs	IN000050	► Edit
	Test Change Request	Change Req	uest Closed	1 - Critical	Fred Bloggs	8-Dec-2003	Joe P Smith	IN000055	► Edit
8.	Sample Risk 1	Risk	Open	1 - Critical	Fred Bloggs	10-Dec-2003		IN000059	► Edit
	Configurable meta-data columns	Enhancemer	t Resolved	2 - High	Joe P Smith	25-Nov-2003	Joe P Smith	IN000026	+ Edit
	Integration of security with NTLM/PKI	Enhancemer	t Assigned	2 - High	Joe P Smith	18-Nov-2003	Joe P Smith	IN000022	► Edit
8	Support for IBM DB2	Enhancemen	t Open	2 - High	Fred Bloggs	17-Nov-2003		IN000019	► Edit
8	The homepage hangs whilst loading	Bug	Not Reproducible	2 - High	Joe P Smith	15-Nov-2003	Fred Bloggs	IN000016	+ Edit
8	Quote handling issues throughout	Bug	Resolved	2 - High	Fred Bloggs	15-Nov-2003	Fred Bloggs	IN000012	► Edit
	Editing the date on a book is clunky	Bug	Assigned	2 - High	Joe P Smith	4-Nov-2003	Fred Bloggs	IN000008	► Edit

Once you have chosen the destination project and clicked the <Export> button, the incidents will be exported from the current project to the destination project. Any file attachments will also be copied to the destination project along with the incidents.

6.1.9. Creating Requirement from Incidents

Sometimes you may have a situation where an enhancement has been logged in the incident tracker and now that it has been approved, it needs to be converted into a formal requirement so that test cases and tasks can be generated from it. To aid this process, there is a shortcut that allows you to create new requirement from selected incidents and have it be automatically added to the requirements list. When that is performed an association is automatically added that links this new requirement to the original incident.

To activate this feature, select the checkboxes of the incidents you want to convert and then click Tools > Convert Into Requirements.

6.1.10. Printing Items

To quickly print a single incident or list of incidents you can select the items' checkboxes and then click Tools > Print Items. This will display a popup window containing a printable version of the selected items.

6.2. Incident Details

When you click on an incident item in the incident list, or click the <New Incident> button (as described in section 6.1), you are taken to the incident details page illustrated below:

spiraTeam	Welcome, Fred Bloggs	Library Information System	▼ <u>My Profile</u>	Administration Log Out	search 🥱	
spirarcain	My Page Pro	oject Home Plan	ning Testing	Tracking	Reporting	
Incidents > Incident Details Tasks	Resources Source	<u>Code</u>				
Workflow Operations	💾 <u>Save</u> 🛛 🕁 Co	py 🗞 <u>Refresh</u>	☆ <u>Delete</u> IN 7	► Find	🔓 Print 🛛 🖂 Email 🛛 😭 S	<u>ubscribe</u>
> <u>Resolve Incident</u>	Incident Name	: 🖺 Cannot add a i	new book to the s	ystem [IN:000007]		
> Unable to Reproduce > Duplicate Incident	Name*:	Cannot add a new b	ook to the system			
	Status*:	> Assigned		Detected By*:	Joe P Smith	▼
<< Back to Incident List	Type*:	Bug	▼	Detected Release:	1.0.0.0 - Library System Release 1	▼
Display: Current Filter	Priority*:	1 - Critical	•	Resolved Release:	1.0.1.0 - Library System Release 1	SP1 🔻 🔿
Cannot log into the application Not able to add new author	Severity:	3 - Medium	▼	Verified Release:	1.0.2.0 - Library System Release 1	SP2 🔻 🏵
Clicking on link throws fatal error	Owner*:	Fred Bloggs	▼	Fixed Build:	None 🔻	
Database not backing up correctly	Creation Date:	11/4/2003 12:00:00 A	M	Last Updated:	12/20/2011 11:46:59 AM	
Cannot install system on Oracle 9i	Description*:					
The book listing screen doesn't sort	Font	The second se	▼ B <i>I</i> <u>U</u>	画画画 目目保健	Ta 🗞 — ∞ 🔟 🗔 🖒 💆	
Cannot add a new book to the sys	When I click on th	ne button to add a book	, enter the new inform	nation and click submit, I g	et a subscript out of range error	
Editing the date on a book is clunky Editing the date on an author is clunk				-		
Doesn't let me add a new category						
Validation on the edit book page						
Quote handling issues throughout						
The tables get cutoff on low-res mode						
Permissions not updating when chan		Schedule *	Custom Props *	Attachments *	History * Association	s *

This page is made up of three areas; the left pane is the navigation window where you can quickly jump to other incidents as well as execute workflow transitions (see below), the upper part of the right pane contains the incident detailed information itself, and the bottom part of the right pane displays different information associated with the incident.

The navigation pane consists of a link that will take you back to the incidents list, as well as a list of the peer incidents to the one selected. This latter list is useful as a navigation shortcut; you can quickly view the peer incidents by clicking on the navigation links without having to first return to the incidents list page. The navigation list can be switched between four different modes:

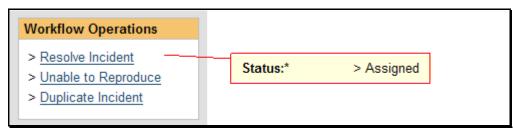
- The list of incidents matching the current filter
- The list of all incidents, irrespective of the current filter
- The list of incidents assigned to the current user
- The list of incidents detected/found by the current user

In addition to the left hand navigation, you can enter a specific incident number in the text-box in the toolbar and click the <Find> button. In the same toolbar, there is also a shortcut for creating a new incident without having to first return to the incident list page. In addition, the lower section of the incident details page can be switched been four different views: "Comments", "Schedule", "Custom Properties", "Attachments", "History", and "Associations". These are described later.

6.2.1. Editing an Existing Incident

If you are editing an existing incident, the fields that are available and the fields that are required will depend on your stage in the incident workflow. For example an open incident might not require a "Resolved Version" whereas a resolved incident could well do. The types of change allowed and the email notifications that are sent will depend on how your project administrator has setup the system for you. Administrators should refer to the *SpiraTeam Administration Guide* for details on configuring the incident workflows to meet their needs.

Depending on the user's role and whether they are listed as the owner or detector of the incident or not, displayed in the left hand side of the page, above the navigation list is a set of allowed workflow operations:



These workflow transitions allow the user to move the incident from one status to another. For example when the incident is in the Assigned status, you will be given the options to:

- > Resolve the Incident changes status to "Resolved"
- > Unable to Reproduce changes the status to "Not Reproducible"
- > Duplicate Incident changes the status to "Duplicate"

After changing the status of the incident by clicking on the workflow link, you can then fill in the additional fields that are now enabled and/or required. Once you've made the changes to the appropriate incident fields, you can either click <Save>, <Save and Close>, or <Save and New> to commit the changes or <Refresh> to discard the changes and reload the incident from the database. In addition you can print the current incident by clicking <Print>, which will display a printable version of the page in a separate window.

6.2.2. Inserting a New Incident

If you are creating a new incident, the fields that are available and the fields that are required will depend on how your project has been for configured. For example, some projects may require that all incidents be started with Status=New and Type=Incident, others may allow you to specify the incident type. The types of change allowed will depend on how your project administrator has setup the system for you. Administrators should refer to the *SpiraTeam Administration Guide* for details on configuring the incident workflows to meet their needs.

Once you've filled out the appropriate incident fields, you can either click <Save>, <Save and Close> or <Save and New> to commit the new item or click on the "Back to Incident List" to discard the insertion and return back to the incident list.

6.2.3. Comments

In this mode, the lower section of the screen displays a threaded list of resolutions that have been logged against this incident:

Comments *	Schedule *	Custom Props *	Attachments	History	Associations					
To add a new comn	nent to this requireme	ent, please enter it b	elow and click the [S	ave] button:*						
Font 🔻	Size 🔻	B / ∐ ≣≣	ॾ ╡┋═┇═┇╔┇╔	T ₂ 🗞 — 🗠 🖾 🗖	<>☑					
*										
Existing Com	nents									
Joe P Smith	(21-Nov-2003)									
Exception	code retested and erro	r no longer occurs								
Fred Bloggs	(20-Nov-2003)									
There was an erroneous exception throw in the module - removed										

You can expand or collapse the list of existing resolutions by clicking the appropriate expand or collapse icon. To add a new resolution to an incident, all you need to do is enter the new resolution / comment in the text box above the list and then click <Save>. Your resolution will now be added to the existing items in the list.

6.2.4. Schedule

In this mode, the main pane displays the general schedule and completion status of the specific incident. You can enter/edit the start-date, closed-date (i.e. the due-date), estimate, actual and remaining effort. From these values, the system will display the calculated percent completion, progress indicator and projected final effort.

Comments	Schedule *	Custom Props *	Attachments *	History *	Associations *	
Start Date:*	11/6/2003		Closed On			
Progress:*		(0%)	Estimated	I Effort:*	0.3 hours	
Projected Effort:	0.3 hours		Actual Effe	ort:	hours	
			Remaining	Effort:	0.3 hours	

6.2.5. Custom Properties

In this mode, the main pane displays any custom properties that the project owner has defined for incidents. To learn more about how to setup and configure custom properties for a project, please refer to the *SpiraTest Administration Guide*. Assuming that custom properties have been defined for your project, you will see a list of optional parameters that can be set on the incident. These can be either freetext or drop-down-lists. In the example below, you can enter Notes, and/or the Operating System that the incident was observed on.

Resolution	Schedule *	Custom Props *	Attachments *	History *	Associations *	
The following are the cu	ustom properties of thi	s artifact:				
Notes:	May be an array bo	ounds issue				
Operating System:	Windows XP			V]	

Once you are satisfied with the values for the custom properties, simply click [Save], [Save and New] or [Save and Close] to commit the changes.

6.2.6. Attachments

In this mode, the lower section of the screen displays the list of documents, screenshots or web links (URLs) that have been "attached" to the incident. The documents can be in any format, though SpiraTeam® will only display the icon for certain known types.

0	Comments	Schedule *	Custom Props *	Attachments *	History	Associations *		_	
> <u>Ad</u>	ld New Add	Existing <u>Remove</u> !	Refresh Apply Filter	r <u>Clear Filter</u> 🔲 Ir	nclude Source Code Do	cuments			
~	Document Na	ame ▲▼	Type ▲▼	Size ▲▼	Edite	ed By ▲▼ E	dited On ▲▼	Author ▲▼	ID ▲▼
			Any	▼	Any	/- 🔻		Any 🔻 🔻	DC
	Bug Stack	Trace.txt	Stack Trace	1 KB	Joe F	P Smith 4	-May-2006	Joe P Smith	DC000010
	Error Logo	ung-in Screen-shot.git	Screen Shot	48 KB	Fred	Bloggs 2	4-Apr-2006	Fred Bloggs	DC000003
	15 🔻 rows						- IN -	Displaying page 1	S of 1 ► ►

The attachment list includes the filename that was originally uploaded together with the file-size (in KB), name of the person who attached it and the date uploaded. In addition, if you position the pointer over the filename and hold it there for a few seconds, a detailed description is displayed as a tooltip.

To actually view the document, simply click on the filename hyperlink and a new web browser window will open. Depending on the type of file, this window will either display the document or prompt you for a place to save it on your local computer. To remove an existing attachment from an incident, simply click the <Remove> button and the attachment will be removed from the list.

If you are using SpiraPlan or SpiraTeam (but not SpiraTest) you can also choose to include file attachments stored in a linked version control system (e.g. Subversion, CVS, Perforce, etc.) by selecting the "Include Source Code Documents" option.

To attach a new document or web link to the incident, you need to click on the "Add New" hyperlink to open the "Add Attachment" dialog box. There are three different types of item that can be attached to an incident:

- To upload a file, choose "File" as the type and then click the Browse button and select the file from your local computer, optionally enter a detailed description then click the <Upload> button. The document will be copied from your computer and attached to the artifact.
- To attach a web-link (URL) to the artifact, you need to choose "URL" as the type and then enter the fully qualified URL (e.g. <u>http://mywebsite.com?Document=1</u>), an optional description and then click the <Upload> button to attach the web-link.
- To attach a screenshot to the artifact, you need to choose "Screenshot" as the type and then copy the image to your computer's clipboard (e.g. on Windows computers, the PRINT SCREEN button captures the current page and adds to the clipboard). Once the image is in the clipboard, click on the "Paste image from clipboard" hyperlink and the item will appear in the preview window. You can then fill in the other fields and click <Upload> to attach the image.

Note: If you are using a non-Windows® computer (e.g. Macintosh®) that doesn't put file extensions on filenames (e.g. .xls for an Excel sheet) automatically, then you will need to manually add the file extension to the filename before uploading if you want it to be displayed with the correct icon in the attachment list.

You can also associate an existing document (that's already stored in SpiraTeam) with the incident. To do that, click on the "Add Existing" hyperlink to bring up the add file association dialog box. You can then choose to either associate a document stored in the SpiraTeam Documents repository or (in the case of SpiraPlan/SpiraTeam but not SpiraTest) from the linked source code repository. In either case you first select the appropriate folder, and then pick the document(s) from the file list on the right. In the case of a source code file association you can also add a comment.

6.2.7. History

In this mode, the main pane displays the list of changes that have been performed on the incident artifact since its creation. An example incident change history is depicted below:

	Comments	Schedule *	Custom Props *	* Attachments *	History *	Associations *		
> <u>R</u>	efresh Apply	Filter Clear Filter						
~	Change ID 🔺	Change	e Date ▲▼ Fiel	ld Name ▲▼	Old Value ▲▼	New Value ▲▼	Changed By ▲▼	Change Type ▲▼
							Any 🔻	Any 🔻
	17	2-Jun-2	011 Ow	ner	Joe P Smith	Fred Bloggs	Fred Bloggs	Modified
	17	2-Jun-2	011 % 0	Complete	25	0	Fred Bloggs	Modified
	17	2-Jun-2	011 Est	. Effort	20	18	Fred Bloggs	Modified
	17	2-Jun-2	011 Pro	jected Effort	20	18	Fred Bloggs	Modified
	17	2-Jun-2	011 Rer	maining Effort	15	18	Fred Bloggs	Modified
	13	2-May-2	2006 Sta	tus	Open	Assigned	Fred Bloggs	Modified
	8	5-Mar-2	2005 Sta	tus	New	Open	Fred Bloggs	Modified
	6	4-Mar-2	2005 Typ	e	Incident	Bug	Joe P Smith	Modified
Show	v 15 🔻 rows	per page					🛯 🖛 Displaying	page 1 🗳 of 1 🕨 🛤

The change history displays the date that each change was made, together with the fields that were changed, the old and new values and the person who made the change. This allows a complete audit trail to be maintained of all changes in the system.

6.2.8. Associations

In this mode, the main pane displays a list of any requirements, test runs, test steps or other incidents that are associated with this incident:

> <u>AC</u>	<u>10 Delete Rel</u>	fresh Apply Filter C	lear Fliters	Include Source (Jode Revisions				
\checkmark	Artifact Name	▲ ▼		Artifact Type ▲▼	Created On ▲▼	Created By ▲▼	Comment AV	Artifact # ▲▼	Edit
				Any 🔻		Any 🔻			► Filter
	Ability to ass	sociate books with diffe	rent editions	Requirement	19-Mar-2004	Joe P Smith		RQ000009	► Edit
	Ability to cre	ate new book (Step 2)		Test Step	19-Mar-2004	Fred Bloggs	This incident is related to the test step	TS000002	► Edit
	The book list	ting screen doesn't sort		Incident	17-Mar-2004	Joe P Smith		IN000006	► Edit
	Ability to cre	ate new book		Test Run	1-Dec-2003	Joe P Smith	Test Run: Ability to create new book	TR000001	
	Ability to add	d new books to the sys	<u>tem</u>	Requirement	1-Dec-2003	Fred Bloggs	Test Run: Ability to create new book	RQ000004	
Show	/ 15 🔻 rows pe	er page					🛏 🖛 Displa	iying page 1	⊊of 1 ► I

The incidents in this list are ones that a user has decided are relevant to the current one and has created a direct link between them. In the case of requirements and test cases, the association can be either due to the creator of an incident directly linking the incident to the requirement or test step, or it can be the result of a tester executing a test-run and creating an incident during the test run. In this latter case, the check-box to the left of the association will be unavailable as the link is not editable.

Each association is displayed with the type of artifact (requirement, test step, test run, incident), the name of the artifact being linked-to, the name of the person who created the association, and a comment that describes why the association was made. In the case of an indirect association due to a test run, the comment will contain the name of the test run.

In addition, when using SpiraPlan or SpiraTeam, you can select the checkbox marked "Include Source Code Revisions" and the system will also scan the source code repository for any revisions that are linked to this artifact. Since that can take be slower than accessing SpiraTeam, it is provided as an option that you can enable and disable:

> <u>A</u>	dd Delete Re	efresh Apply Filter (Clear Filters	Include	Source (Code Revisio	ons					
✓	Artifact Name	▲▼		Artifact Ty	pe ▲▼	Created C	n ▲ ▼	Created By	• •	Comment AV	Artifact # ▲▼	Edit
				Any	▼			Any	▼			► Filter
	🖄 <u>rev0005</u>			Revision		16-Jan-201	10	Fred Bloggs		The artifact was changed in this version to fix th	-	
	A rev0003			Revision		16-Jan-201	10	Fred Bloggs		The artifact was changed in this version to fix th	-	
	Ability to as	sociate books with diffe	erent editions	Requireme	nt	19-Mar-20	04	Joe P Smith			RQ000009	► Edit
	Ability to cre	eate new book (Step 2)		Test Step		19-Mar-20	04	Fred Bloggs		This incident is related to the test step	TS000002	► Edit
	The book lis	sting screen doesn't sor	t	Incident		17-Mar-20	04	Joe P Smith			IN000006	► Edit
	N:h	eate new book		Test Run		1-Dec-200	3	Joe P Smith		Test Run: Ability to create new book	TR000001	
	Ability to ad	ld new books to the sys	stem	Requireme	nt	1-Dec-200	3	Fred Bloggs		Test Run: Ability to create new book	RQ000004	
Sho	w 15 🔻 rows p	er page								🔳 🚽 Displa	ving page 1	sof1⊳

You can perform the following actions on an association from this screen:

- Delete removes the selected association to the other artifact. This will only delete the association, not the linked artifact itself.
- Refresh updates the list of associations from the server, useful if other people are adding associations to this incident at the same time.
- > Apply Filter Applies the entries in the filter boxes to the list of associations
- > Clear Filters Clears the current filter, so that all associations for the current incident are shown.
- Edit Clicking the [Edit] button to the right of the associations allows you to edit the comment field inline directly on this screen.

To create a new association, simply click the <Add> hyperlink which will display the "Add New Association" popup dialog box:

Add New Association				×
Please choose the type of art	tifact that you want to add	an asso	ociation to:	
OIncident ORequirement	 Test Step 			
Please choose the artifact t	that you want to add an as	sociatio	on to:	
(a) Enter Artifact ID: T	s			
(b) Choose from list:	✓ Test Case		✓ Test Step	
	□ □ Functional Tests □	^	🔲 🕲 Step 1	<u>^</u>
-	Ability to		🔽 👫 Step 2	=
-	create new book		🔲 🖺 Step 3	
	Ability to edit existing book	~	🔲 🖺 Step 4	~
p Comment: a	a comment			~
				> <u>Add</u> <u>Cancel</u>
opirarcan vz.s. r (bota)				

Once you have selected the appropriate artifact type, you will then be able to choose the specific artifact you want to link to. In all cases, you can choose the item from a scrolling selection box, or you can either enter the ID of the artifact directly (if known). In either case you can also add a comment that explains the rationale for the association. If you're adding an association to a test step, then there are actually *two* selection boxes, one to choose the overall test case and the other to choose the specific test step.

6.2.9. Creating a Requirement from an Incident

Sometimes you may have a situation where an enhancement has been logged in the incident tracker and now that it has been approved, it needs to be converted into a formal requirement so that test cases and tasks can be generated from it. To aid this process, there is a shortcut link on the Associations tab that allows you to create a new requirement from the current incident and have it be automatically added to the requirements list. When that is performed an association is automatically added that links this new requirement to the original incident.

6.2.10. Emailing the Incident

Using the <Email> button on the toolbar, you can send an email containing details of the incident to an email address or another user on the system:

Email this artifact	to:	2	×
Project User:	Fred Bloggs Select a user in the project to send to.		
© Email Addresses:			
Message Subject:	Leave blank for default.		
		Send Cancel	

You can specify the subject line for the email, and either a list of email addresses, separated by semicolons, or an existing project user .The content of the email body is specified by the email template configured in the Administration > Notification Templates screen.

7. Release Management

This section outlines how to use the Release Management features of SpiraTeam® to manage different versions of the system being tested in a particular project. This is an optional feature of the system, and you can manage the testing for a project successfully without tracking individual releases. Typically when you develop a system, it is important to ensure that features introduced in successive versions do not impair existing functionality - this is known as *regression testing*.

In such situations, you will want to be able to execute the same set of test scripts against multiple versions of the system and be able to track failures by version. A feature that works correctly in version 1.0 may fail in version 1.1, and the maintenance team may be testing the existing lifecycle of v1.0 in parallel with the development team testing v1.1. Therefore by developing a master set of releases/versions in the Release Management module, you can have the different testing teams correctly assign their testing actions to the appropriate version.

There are two types of release artifact in SpiraTeam® - major project releases that are displayed with the blue release icon and represent major versions of the system, and release Iterations (aka builds) that are displayed with a yellow icon and represent intermediate builds/iterations of the system. *Note: Iterations can be contained within a Release, but not the other way round.*

The main differences between releases and iterations are as follows:

- Releases are independent versions of the system being tested and as such, you can map a requirement directly to a release, indicating the release of the system that the requirement will be fulfilled in.
- When you report on a release (e.g. on the project home or in one of the reports) any child iterations are automatically taken into account, and test runs and incidents that are related to the child iterations will get included in the release reports. Child releases on the other hand are not aggregated up into the parent release.

7.1. Release List

When you click on the Planning > Releases global navigation link, you will initially be taken to the release list screen illustrated below:

_	N	ly Page Proj	ect Home Plann	ng Testing	Tracking	g Reportin	9				_
equir	<u>ements</u> Releases <u>Iterations</u> <u>Pla</u>	inning Board								Role	: Mana
h Ins	ert 🗱 Delete 🔷 Indent 💠 Out	dent - Show Lev	el V Refresh	Edit 🔅 I	ools - Showhide	oolumns -	Filter				
1	Release Name	Version #	Test Coverage	Task Progress	Start Date	End Date	Plan Effort	Task Effort	Iteration?	ID	Edi
			- Any 🔻	Any 🔻					- Any - 🔻	RL	► Edi
	E Library System Release 1	1.0.0.0			1-Mar-2004	12-Mar-2004	216.0h	94.0h	No	RL000001	► Edi
-	🖻 🛅 Library System Release 1 SP1	1.0.1.0		No Tasks	13-Mar-2004	30-Mar-2004	176.0h	0.3h	No	RL000002	+ Edi
63	teration 001	1.0.1.0.0001	No Tests	No Tasks	13-Mar-2004	20-Mar-2004	80.0h		Yes	RL000011	► Ed
	teration 002	1.0.1.0.0002	No Tests	No Tasks	21-Mar-2004	24-Mar-2004	48.0h		Yes	RL000012	► Ed
	teration 003	1.0.1.0.0003	No Tests	No Tasks	25-Mar-2004	30-Mar-2004	64.0h		Yes	RL000013	• Ed
23	🖻 🛅 Library System Release 1 SP2	1.0.2.0		No Tasks	1-Apr-2004	30-Apr-2004	352.0h		No	RL000003	• Ed
	teration 001	1.0.2.0.0001	No Tests	No Tasks	1-Apr-2004	10-Apr-2004	112.0h		Yes	RL000014	► Ed
3	teration 002	1.0.2.0.0002	No Tests	No Tasks	11-Apr-2004	20-Apr-2004	112.0h		Yes	RL000015	► Ed
-	1teration 003	1.0.2.0.0003	No Tests	No Tasks	21-Apr-2004	30-Apr-2004	128.0h		Yes	RL000016	► Ed
	teration 001	1.0.0.00001	No Tests		1-Mar-2004	4-Mar-2004	96.0h	32.0h	Yes	RL000008	► Edi
8	El Iteration 002	1.0.0.0.0002	No Tests		5-Mar-2004	8-Mar-2004	24.0h	32.0h	Yes	RL000009	► Ed
	Literation 003	1.0.0.00003	No Tests		9-Mar-2004	12-Mar-2004	72.0h	30.0h	Yes	RL000010	► Ed
8	🗉 🛅 Library System Release 1.1	1.1.0.0			15-Oct-2004	27-Oct-2004	168.0h	86.0h	No	RL000004	► Ed
8	Library System Release 2005	1.2.0.0			1-Apr-2005	2-Apr-2005	16.0h	10.0h	No	RL000006	► Edi

The release list will contain all the releases and iterations associated with current project. When you create a new project, this list will initially be empty, and you will have to use the <Insert> button to start

adding releases and iterations to the project. The hierarchical organization of releases in the list is configurable, so you can organize the various releases in the way that makes most sense for a particular project. Typically you have the major releases as the top-level items, with sub-releases, builds and iterations as the lower-level items.

All of the releases in the list have a release-name, together with the assigned version number for that release, the start-date and end-date for the release, the number of estimated project personnel working on that release, the planned effort for the release, the total effort currently scheduled (as tasks), the available effort for new tasking, the release id, and a set of custom properties defined by the project owner.

For those releases that have test cases mapped against them, the execution status of the various test cases associated with the release is displayed in aggregate for each item as a graphical bar diagram. If you position the mouse over the execution status indicator you will see the detailed execution information displayed as a tooltip.

For those releases that have at least one requirement task associated with them, they will display a block graph that illustrates the relative numbers of task that are on-schedule (green), late-starting (yellow), late-finishing (red) or just not-started (grey). These values are weighted by the effort of the task, so that larger, more complex tasks will be change the graph more than the smaller tasks. To determine the exact task progress information, position the mouse pointer over the bar-chart and the number of associated tasks, along with the details of how many are in each status will be displayed as a "tooltip".

Clicking on a release's hyperlink will take you to the release details page for the item in question (see section 7.2).

7.1.1. Filtering

You can easily filter the list of releases as illustrated in the screen-shot below:

<u> </u>	N	/ly Page	Project Home	Planning Tes	sting Tra	cking Re	porting				
equire	<u>ments</u> Releases <u>Iterations</u>									Role: Proj	ect Owr
nse	t 🗱 Delete 💠 Indent 💠 Outd	ent Show	v Level 💌 🦻	Refresh Provident	Export	Show/hide columr	ns 💌 🍸	Filter			
✓ 0	Release Name	Version #	Test Status	Task Progress	Start Date	End Date	Plan Effort	Task Effort	Iteration?	Release Id	Edit
			Any 🔻	Any 🔻					No 🔻	RL	 Filte
	🖻 🛅 Library System Release 1	1.0.0.0			1-Mar-2004	12-Mar-2004	216.0h	94.0h	No	RL000001	► Edit
	🗉 🛅 Library System Release 1 SP1	1.0.1.0		No Tasks	13-Mar-2004	30-Mar-2004	176.0h		No	RL000002	► Edit
	🗉 🛅 Library System Release 1 SP2	1.0.2.0		No Tasks	1-Apr-2004	30-Apr-2004	352.0h		No	RL000003	► Edit
	🖃 🛅 Library System Release 1.1	1.1.0.0			15-Oct-2004	27-Oct-2004	168.0h	86.0h	No	RL000004	► Edit
	Library System Release 1.1 SP1	1.1.1.0		No Tasks	1-Nov-2004	30-Nov-2004	336.0h		No	RL000005	► Edit
	Library System Release 1.1 SP2	1.1.2.0	No Tests	No Tasks	1-Dec-2004	31-Dec-2004	320.0h		No	RL000007	► Edit
	Library System Release 2005	1.2.0.0			1-Apr-2005	2-Apr-2005	16.0h	10.0h	No	RL000006	► Edit
how	15 Trows per page								🛯 🖛 Displayir	ig page 1	S of 1 ≥

To filter the list by any of the displayed columns, you either choose an item from the appropriate dropdown list or enter a free-text phrase (depending on the type of field) then click <Filter> or press the <ENTER> key to apply the different filters. Note that the name field is searched using a "LIKE" comparison, so that searching for "database" would include any item with the word database in the name. The other freetext fields need to be exact matches (e.g. dates, release numbers). In the screen-shot above, we are filtering on Iteration = No. Clicking on <Clear Filters> clears all the set filters and displays all the releases for the project.

In addition, if you have a set of filters that you plan on using on a regular basis, you can choose the option Filter > Save Filter to add the current filter to the list of saved filters that appear on your 'My Page'. The list of saved filters can also be retrieved by clicking Filter > Retrieve Filter:

P	iraTeam	Iv Page F	Project Hom		lanning	Testing Tr	racking Re	porting				
equire	ments Releases Iterations	ny Page P	roject non	18 19	lanning	resung	racking Re	porting			Role	: Mana
Inser	t 🗱 Delete 🔿 Indent 💠 Outd	ent Show I	Level 🔻	Refre	ish 🛛 🖓 Edit	Export Sh	ow/hide columns	T	Filter	_		
/ 8	Release Name	Version #	Test Sta				End Date	Plan Effc	Apply Filter	Iteration?	Release Id	Edit
			Any	Save F	ilter			8	Clear Filter	No 🔻	RL	► Filte
	🗉 🛅 Library System Release 1	1.0.0.0		Please c	hoose a name for	this filter:	12-Mar-2004	216.0h 🔿	Retrieve Filter	No	RL000001	► Edit
	🖃 🖺 Library System Release 1 SP1	1.0.1.0		All non-i	teration releases		30-Mar-2004	176.0h 💾	Save Filter	No	RL000002	► Edit
	🗉 🖲 Library System Release 1 SP2	1.0.2.0		Particiti			30-Apr-2004	352.0h		No	RL000003	► Edit
	E Library System Release 1.1	1.1.0.0				> <u>Save</u> <u>Cancel</u>	27-Oct-2004	168.0h	86.0h	No	RL000004	► Edit
	Library System Release 1.1 SP1	1.1.1.0			No Tasks	1-Nov-2004	30-Nov-2004	336.0h		No	RL000005	► Edit
	Library System Release 1.1 SP2	1.1.2.0	No Tests		No Tasks	1-Dec-2004	31-Dec-2004	320.0h		No	RL000007	► Edit
	Library System Release 2005	1.2.0.0				1-Apr-2005	2-Apr-2005	16.0h	10.0h	No	RL000006	► Edit
how	15 🔻 rows per page									i≪ ⊲ Displayir	ng page 1	s of 1 ⊧

7.1.2. Insert

Hovering over the <Insert> button brings up a secondary menu that allows you to choose whether to insert a release or iteration (if you just click Insert it defaults to inserting a release). In either case, it will insert the new release / iteration *above* the currently selected item – i.e. the one whose check-box has been selected, at the same level in the hierarchy. If you want to insert a release/iteration below a summary item, you need to insert it first, then indent it with the <Indent> button. If you insert a release without first selecting an existing release from the list, the new release will simply be inserted at the end of the list.

Once the new release has been inserted, the item is switched to "Edit" mode so that you can change the default name, active flag, version number and creator.

7.1.3. Delete

Clicking on the <Delete> button deletes all the releases whose check-boxes have been selected. If any of the items are summary items, then the child releases and iterations are also deleted. In addition, if all the children are deleted from a summary item, it changes back into a detail item.

7.1.4. Indent

Clicking on the <Indent> button indents all the releases whose check-boxes have been selected. If any of the items are made children of a release that had no previous children, it will be changed from a detail item into a summary item. Note: you cannot indent a release or iteration if it is *below* an iteration, as iterations are not allowed to have child items

7.1.5. Outdent

Clicking on the <Outdent> button de-indents all the releases whose check-boxes have been selected. If any of the items were the only children of a summary release item, then that item will be changed back from a summary item to a detail item.

7.1.6. Refresh

Clicking on the <Refresh> button simply reloads the release list. This is useful as other people may be modifying the list of releases at the same time as you, and after stepping away from the computer for a short-time, you should click this button to make sure you are viewing the most current release list for the project.

7.1.7. Edit

Each release/iteration in the list has an <Edit> button display in its right-most column. When you click this button or click on any of the cells in the row, you change the item from "View" mode to "Edit" mode. The various columns are made editable, and <Update> <Cancel> buttons are displayed in the last column:

sp	Welcome, Free	Bloggs <u>My Profile</u> Project Home		y Information System	king Reportin	na			Help?
Require	ments Releases Iterations			5	5			F	Role: Manag
lnser	t 🗱 Delete 💠 Indent 💠 Outdent Sho	w Level 💌 🔹 🧐	Refresh 🛛 🎝 Copy	y 🗗 Export 🦳 S	show/hide columns	V Y Clear F	ilters		
✓ 0	Release Name	Version #	Test Status	Task Progress	Start Date	End Date	Plan Effort	Release Id	Edit
			Any 🔻	Any 🔻				RL	► Filter
	🖻 🛅 Library System Release 1	1.0.0.0			1-Mar-2004	12-Mar-2004	216.0h	RL000001	► Edit
	Library System Release 1 SP1	1.0.1.0		No Tasks	3/13/2004 🔳 🗐	3/30/2004 🔳 🗐	176.0h		Update Cancel
	Library System Release 1 SP2	1.0.2.0		No Tasks	4/1/2004	4/30/2004	352.0h		
	Lteration 001	1.0.0.0001	No Tests		1-Mar-2004	4-Mar-2004	96.0h	RL000008	► Edit
	El Iteration 002	1.0.0.0002	No Tests		5-Mar-2004	8-Mar-2004	24.0h	RL000009	► Edit
	Lteration 003	1.0.0.00003	No Tests		9-Mar-2004	12-Mar-2004	72.0h	RL000010	► Edit
	🗉 🛅 Library System Release 1.1	1.1.0.0			15-Oct-2004	27-Oct-2004	168.0h	RL000004	► Edit
	Library System Release 1.1 SP1	1.1.1.0		No Tasks	1-Nov-2004	30-Nov-2004	336.0h	RL000005	► Edit
	Library System Release 1.1 SP2	1.1.2.0	No Tests	No Tasks	1-Dec-2004	31-Dec-2004	320.0h	RL000007	► Edit
	Lteration 001	1.1.0.0.0001			15-Oct-2004	18-Oct-2004	24.0h	RL000017	► Edit
	Lteration 002	1.1.0.0.0002			19-Oct-2004	23-Oct-2004	72.0h	RL000018	► Edit
	Lteration 003	1.1.0.0.0003			24-Oct-2004	27-Oct-2004	72.0h	RL000019	► Edit
	Library System Release 2005	1.2.0.0			1-Apr-2005	2-Apr-2005	16.0h	RL000006	► Edit
Show	15 Tows per page						阔 ৰ Disp	playing page 1	In of 1 ►
linser	t 🗱 Delete 🗇 Indent 🗇 Outdent								

If you click <Edit> on more than one row, the <Update> and <Cancel> buttons are only displayed on the first row, and you can make changes to all the editable rows and then update the changes by clicking the one <Update> button. Also, if you want to make the same change to multiple rows (e.g. to change five releases from "active" to "inactive"), you can click on the "fill" icon to the right of the editable item, which will propagate the new value to all editable items in the same column.

If you want to edit lots of items, first select their checkboxes and then click the [Edit] button on the same row as the Filters and it will switch all the selected items into edit mode.

When you have made your updates, you can either click <Update> to commit the changes, or <Cancel> to revert back to the original information. Alternatively, pressing the <ENTER> key will commit the changes and pressing the <ESCAPE> key will cancel the changes.

7.1.8. Show Level

Choosing an indent level from the 'Show Level' drop down box allows you to quickly and easily view the entire release list at a specific indent level. For example you may want to see all releases drilled-down to the *third* level of detail. To do this you would simply choose 'Level 3' from the list, and the releases will be expanded / collapsed accordingly.

7.1.9. Show / Hide Columns

This drop-down list allows you to change the fields that are displayed in the release list as columns for the current project. To show a column that is not already displayed, simply select that column from the list of "Show..." column names and to hide an existing column, simply select that column from the list of "Hide..." column names. This is stored on a per-project basis, so you can have different display settings for each project that you are a member of. The fields can be any of the built-in fields or any of the custom properties set up by the project owner.

7.1.10. Copying Releases/Iterations

To copy a release/iteration or set of releases/iterations, simply select the check-boxes of the release/iteration you want to copy and then select the Edit > Copy menu option. This will copy the current release/iteration selection to the clipboard. Then you should select the place where you want the releases/iterations to be inserted and choose the Edit > Paste option.

The releases/iterations will now be copied into the destination location you specified. The name of the copied releases/iterations will be prefixed with "Copy of..." to distinguish them from the originals. Note that copied releases/iterations will also include the test mapping information from the originals.

7.1.11. Moving Releases/Iterations

To move a release/iteration in the hierarchy, there are two options:

1. Click on the icon the release/iteration you want to move and then drag the icon to the location you want it moved. The border between the destination releases/iterations will change as the icon is dragged over it to illustrate where it will be inserted:

spi	Team	ne, System Admi	nistrator <u>My Profile</u>	Administration	Log Out Library	Information System	~			Help?
	My Page	e Project H	lome Planning	Testing	Tracking	Reporting			0.1.0	1
Requirem		Show Level	🗸 🖗 Refresh	Copy 🗗 Exp	ort Show/hide	columns 💌	Clear Filte		Role: Pi	roject Owner
-C- insen		Show Level	V S Keiresii		Show/hide	columns 💌		12		
✓ 8	Release Name	Version #	Test Status	Task Progress	Start Date	End Date	Plan Effort	Task Effort	Release Id	Edit
			Any 🔻	Any 🔻					RL	► Filter
	🗆 🛅 Library System Release 1	1.0.0.0			1-Mar-2004	12-Mar-2004	216.0h	94.0h	RL000001	► Edit
		1.0.1.0		No Tasks	13-Mar-2004	30-Mar-2004	176.0h		RL000002	► Edit
	🗉 🛅 Library System Release 1 SP2	1.0.2.0		No Tasks	1-Apr-2004	30-Apr-2004	352.0h		RL000003	► Edit
	Leration 001	1.0.0.00001	No Tests		1-Mar-2004	4-Mar-2004	96.0h	32.0h	RL000008	► Edit
	Lteration 002	1.0.0.0002	No Tests		5-Mar-2004	8-Mar-2004	24.0h	32.0h	RL000009	► Edit
	Lteration 003	1.0.0.0.0003	No Tests		9-Mar-2004	12-Mar-2004	72.0h	30.0h	RL000010	► Edit
	Company System Release 1.1	1.1.0.0			15-Oct-2004	27-Oct-2004	168.0h	86.0h	RL000004	► Edit
	Library System Release 1 SP2 Library System Release 1.1 SP1	1.1.1.0		No Tasks	1-Nov-2004	30-Nov-2004	336.0h		RL000005	► Edit
	Library System Release 1.1 SP2	1.1.2.0	No Tests	No Tasks	1-Dec-2004	31-Dec-2004	320.0h		RL000007	► Edit
	teration 001	1.1.0.0.0001			15-Oct-2004	18-Oct-2004	24.0h	29.0h	RL000017	► Edit
	teration 002	1.1.0.0.0002			19-Oct-2004	23-Oct-2004	72.0h	27.0h	RL000018	► Edit
	Lteration 003	1.1.0.0.0003			24-Oct-2004	27-Oct-2004	72.0h	30.0h	RL000019	► Edit
	Library System Release 2005	1.2.0.0			1-Apr-2005	2-Apr-2005	16.0h	10.0h	RL000006	► Edit
Show 1	5 v rows per page							🛯 🖛 Disp	blaying page 1	S of 1 ► ►
🕂 Insert	🗱 Delete 💠 Indent 💠 Outdent									

Once you have the release/iteration positioned at the correct place that you want it inserted, just release the mouse button and the release list will be refreshed, with the release/iteration moved to the desired location. To move multiple items simply select their checkboxes and then drag-and-drop one of the selected items.

 Alternatively you can simply select the check-boxes of the release/iteration you want to move and then select the Edit > Cut menu option. This will cut the current release/iteration selection to the clipboard. Then you should select the place where you want the release/iteration to be inserted and choose the Edit > Paste option. The release/iteration will now be moved into the destination location you specified.

7.1.12. Exporting Releases/Iterations

To export releases/iterations from the current project to another project in the system, all you need to do is select the check-boxes of the releases/iterations you want to export and then click the Tools > Export icon. This will then bring up a list of possible destination projects:

sp	piraTeam	ly Page Proj	ect Hon	ne Pla	nning Test	ing Trackin	ng	Reportir	Ig				
		anning Board						a dada a sa Risa a s				Role	: Manag
> Ins	ert 🗱 <u>Delete</u> 🚓 <u>Indent</u> ⇐ <u>Out</u> o	dent Show Leve	el 🔻	Refres	ih 🖓 Edit 🔅	Tools Show/hid	de c	olumns -	Filter				
1	Release Name	Version #	Te	Export Ite	ms			End Date	Plan Effort	Task Effort	Iteration?	ID	Edit
		ļ		Plassa sala	ct the project you w	ant to export to:	1				- Any - 🔻	RL	 Edit
8	E Library System Release 1	1.0.0.0	_			ant to export to.		12-Mar-2004	216.0h	94.0h	No	RL000001	► Edit
1	E Library System Release 1 SP1	1.0.1.0		Sample Appl	ication One	•		30-Mar-2004	176.0h	0.3h	No	RL000002	 Edit
-	Lteration 001	1.0.1.0.0001	No			1		20-Mar-2004	80.0h		Yes	RL000011	► Edi
	tteration 002	1.0.1.0.0002	No		> Exp	ort Cancel		24-Mar-2004	48.0h		Yes	RL000012	► Edit
	tteration 003	1.0.1.0.0003	No		- Micho			30-Mar-2004	64.0h		Yes	RL000013	 Edit
23	🖻 🛅 Library System Release 1 SP2	1.0.2.0			No Tasks	1-Apr-2004		30-Apr-2004	352.0h		No	RL000003	• Edit
	teration 001	1.0.2.0.0001	No	Tests	No Tasks	1-Apr-2004		10-Apr-2004	112.0h		Yes	RL000014	Edit
3	teration 002	1.0.2.0.0002	No	Tests	No Tasks	11-Apr-2004		20-Apr-2004	112.0h		Yes	RL000015	► Edit
	Iteration 003	1.0.2.0.0003	No	Tests	No Tasks	21-Apr-2004		30-Apr-2004	128.0h		Yes	RL000016	+ Edit
	Lteration 001	1.0.0.00001	No	Tests		1-Mar-2004		4-Mar-2004	96.0h	32.0h	Yes	RL000008	► Edit
8	Literation 002	1.0.0.00002	No	Tests		5-Mar-2004		8-Mar-2004	24.0h	32.0h	Yes	RL000009	► Edit
23	Literation 003	1.0.0.00003	No	Tests		9-Mar-2004		12-Mar-2004	72.0h	30.0h	Yes	RL000010	+ Edit
	E Library System Release 1.1	1.1.0.0				15-Oct-2004		27-Oct-2004	168.0h	86.0h	No	RL000004	► Edit
8	Library System Release 2005	1.2.0.0				1-Apr-2005		2-Apr-2005	16.0h	10.0h	No	RL000006	Edit

Once you have chosen the destination project and clicked the <Export> button, the releases/iterations will be exported from the current project to the destination project. Any file attachments will also be copied to the destination project along with the release/iteration.

7.1.13. Creating Test Sets from Releases

As a shortcut you can click the Tools > Create Test Sets option to create new test sets from the list of selected releases. The created test sets will include all of the test cases associated with this release. This is useful in regression testing when you have created a new release and want to be able to quickly assign a tester to ensure that all the functionality in the release works as expected.

7.1.14. Printing Items

To quickly print a single release/iteration or list of releases/iterations you can select the items' checkboxes and then click Tools > Print Items. This will display a popup window containing a printable version of the selected items.

7.1.15. Right-Click Context Menu

SpiraTeam® provides a shortcut – called the *context menu* - for accessing some of the most commonly used functions, so that you don't need to move your mouse up to the toolbar each time. To access the context menu, right-click on any of the rows in the release list and the following menu will be displayed:

Library System Release	<u>e 1 SP1</u> 1.0.1.0		No Tasks	13-Mar-2004	30-Mar-2004	176.0h
El Iteration 001	🖓 Open Item	No Tests	No Tasks	13-Mar-2004	20-Mar-2004	80.0h
tteration 002	🖓 Open in New Tab	No Tests	No Tasks	21-Mar-2004	24-Mar-2004	48.0h
El Iteration 003	📋 New Release	No Tests	No Tasks	25-Mar-2004	30-Mar-2004	64.0h
Library System Releas	New Iteration		No Tasks	1-Apr-2004	30-Apr-2004	352.0h
Lteration 001	Edit Items	No Tests	No Tasks	1-Apr-2004	10-Apr-2004	112.0h
tteration 002	🗱 Delete	No Tests	No Tasks	11-Apr-2004	20-Apr-2004	112.0h
tteration 003	➡ Indent	No Tests	No Tasks	21-Apr-2004	30-Apr-2004	128.0h
El Iteration 001	Outdent	No Tests		1-Mar-2004	4-Mar-2004	96.0h
El Iteration 002	Copy Items	No Tests		5-Mar-2004	8-Mar-2004	24.0h
El Iteration 003	Cut Items	No Tests		9-Mar-2004	12-Mar-2004	72.0h
Library System Release	-			15-Oct-2004	27-Oct-2004	168.0h
	1200			1 4== 2005	2 4 2005	10.05

You can now choose any of these options as an alternative to using the icons in the toolbar

7.2. Release Details

When you click on release item in the release list described in section 7.1, you are taken to the release details page illustrated below:

spiraTeam	Welcome, Fred Bloggs	brary Information System V <u>My Profil</u>	e <u>Administration</u> <u>Log Out</u> Se	earch 🕘	
Spild	My Page Projec	t Home Planning Testin	g Tracking Re	eporting	
Requirements Releases > Release Deta	ails <u>Iterations</u> <u>Plan</u>	ning Board			
<< Back to Release List	💾 Save 🖓 Copy	µ 🗞 <u>Refresh</u> │ 🗱 <u>Delete</u> │ 🚔	Print		
Display: Current Filter	Release: 🖻 Libra	ary System Release 1 [RL:00000	1]		
E Library System Release 1	Name*:	Library System Release 1			
Library System Release 1 SP1 Iteration 001	Description:	Font V Size V	B <i>I</i> <u>U</u> ≣ ≣ ≣ §≣ ⊞	幸幸 Ta 🎭 — 👄 🖬 🗖] ↔ 🛛
Iteration 002 Iteration 003		This is the initial release of the Library I	lanagement System		
□ □ Library System Release 1 SP2 □ Iteration 001					
Lteration 002	Version #*:	1.0.0.0	Creator*:	Fred Bloggs	▼
Lteration 003	Start/End Date*:	3/1/2004 📰 - 3/12/2004 📰	Creation Date:	15-Feb-2004	
🔛 Iteration 002	# Resources*:	3	Active*:	Yes 🔻	
Lteration 003	Non-Working*:	3 person days	Iteration*:	No 🔻	
⊞	Plan Effort:	216.0h	Available Effort:	121.3h	
	Incidents * Rec	qs & Tasks * Test Cases * Com	nents Custom Props * Te	est Runs * Builds	Attachments * History *

This page is made up of three areas; the left pane is the navigation window, the upper part of the right pane contains the release detailed information itself, and the bottom part of the right pane displays different information associated with the release.

The navigation pane consists of a link that will take you back to the release list, as well as a list of the other releases in the current project. This latter list is useful as a navigation shortcut; you can quickly view the test run information of all the other releases by clicking on the navigation links without having to first return to the release list page. The navigation list can be switched between two different modes:

- The list of releases matching the current filter
- The list of all releases, irrespective of the current filter

The top part of the right pane allows you to view and/or edit the details of the particular release. You can edit the various fields (name, description, etc.) and once you are satisfied with them, simply click either the <Save> or <Save and New> button at the top of the page to commit the changes. In addition you can delete the current artifact by choosing <Delete>, discard any changes made by clicking <Refresh> or print it by clicking <Print>.

When you make changes to the release/iteration's start-date, end-date, number of project personnel resources, or number of non-working *person* days, the system will automatically calculate how many hours of effort (planned effort) are available in the release/iteration for assigning tasks. As you begin assigning tasks – either through the Tasks tab or the Iteration Planning screen – the total estimated effort of the tasks is subtracted from this planned effort to give the "available effort".

The lower part of the right pane can be in one of eight possible modes that can be selected: "Incidents", "Reqs & Tasks", "Test Cases", "Comments", "Custom Properties", "Test Runs", "Builds", "Attachments", and "History". Each of the different views is described separately below.

7.2.1. Incidents

This is the default view for the release details page. It displays the incidents associated with the selected release. The incident list can be one of three modes:

- Detected in this Release this will display a list of all the incidents that were detected during the testing of the selected release. This is useful in determining if there are open incidents associated with a release that need to be dealt with.
- Resolved in this Release This will display a list of all the incidents that have been reportedly resolved in this release. This is useful for double-checking that all the resolved incidents for a release have indeed been fixed.
- Verified in this Release This will display a list of the incidents that have been verified as being fixed in this release. This is useful for generating release notes for a specific release indicating what changes and enhancements have been made in the release.

Regardless of the mode, each incident is listed together with the type, status, priority, name, owner, detector, detection date and a link to the actual incident details (see section 6.2):

	Incid	lents *	Task	(S *	Test Ca	ises *	Custo	m Props *	т	est Runs *		Attachments		History *			
Dis	pla	y List of Inc	idents:	Detected in	This Releas	se 🔻	> <u>F</u>	Refresh Ap	ply Fi	<u>lter Clear </u>	llters	Show/	hide co	lumns 🔻 🔻			
~	Ű	Incident Na	ame ▲▼			Туре ▲▼		Status A	'	Priority A	•	Detected By	AV	Detected On ▲▼	Owned By ▲▼	Inc. # ▲ ▼	Edit
						Any	▼	Any	▼	Any	▼	Any	V		Any 🔻	IN	► Filter
	U	Cannot I	log into the	e application	1	Incident		New				Fred Bloggs		1-Nov-2003		IN000001	► Edit
		Not able	e to add ne	w author		Incident		New				Joe P Smith		1-Nov-2003		IN000002	► Edit
	U	Cannot :	add a new	book to the	e system	Bug		Assigned		1 - Critical		Joe P Smith		4-Nov-2003	Fred Bloggs	IN000007	► Edit
Sho	W [1	5 🔻 rows p	per page												🝽 ৰ Displayin	g page 1	S of 1 ► ►

To change between the three modes outlined above, simply select the desired mode from the drop-down list contained within the header of the incident list table.

You can perform the following actions:

- Refresh updates the list of incidents from the server, useful if other people are adding incidents to this release at the same time.
- > Apply Filter Applies the entries in the filter boxes to the list of incidents
- Clear Filters Clears the current filter, so that all incidents associated with the current release are shown.
- Edit Clicking the [Edit] button to the right of the incident allows you to edit the incident inline directly on this screen. This functionality is limited to project owners.
- Show/Hide Columns Allows you to choose which incident columns are visible

7.2.2. Reqs & Tasks

In this mode, the lower part of the right pane displays the list of requirements and their associated child tasks that need to be completed for the release/iteration to be completed:

Incidents *	Reqs & Tasks *	Test Cases *	Comments	Custom Prop	s *	Test Runs *	Attach	iments	History *	
> Insert Task Del	<u>ete Task Refresh</u>	Apply Filter Clear	Filters Sho	w Level 🔻	> E	st. Effort: 94.0h / A	ct. Effort: 61	1.0h / Proj. E	Effort: 95.8h	
✓ 🧶 Requireme	ent/Task Name		Importance	Progress		Owner	Est. Effort	Act. Effort	Proj. Effort	Edit
			Any 🔻	Any	•	Any 🔻 🔻				► Filter
□ 0 🗉 🛍 Abilit	y to add new book	s to the system	1 - Critical			Joe P Smith	16.0h	15.5h	16.0h	► Edit
□	y to edit existing b	ooks in the system	1 - Critical			Joe P Smith	16.0h	16.8h	16.0h	► Edit
□	y to delete existing	g books in the syster	1 - Critical			Fred Bloggs	16.0h	15.2h	16.0h	► Edit
□ □ 🛍 Abilit	y to create differer	nt editions	1 - Critical			Fred Bloggs	16.0h	10.3h	17.8h	► Edit
Deve	elop new edition entr	y screen	1 - Critical			Fred Bloggs	8.0h	7.0h	9.0h	► Edit
Crea	te edition object ins	ert method	1 - Critical			Fred Bloggs	5.0h	3.3h	5.8h	► Edit
Urit Write	e edition object inse	rt queries	1 - Critical			Fred Bloggs	3.0h		3.0h	► Edit
□ 0 🗉 🛍 <u>Abilit</u>	y to edit existing a	uthors in the system	2 - High			Fred Bloggs	16.0h		16.0h	► Edit
□ 0 🗉 🛍 <u>Abilit</u>	y to edit existing a	uthors in the system	2 - High			Fred Bloggs	16.0h		16.0h	► Edit
Show 15 🔻 rows p	oer page						×	🛯 🖛 Displayin	g page 1	S of 1 ► ►

Each of the requirements and associated tasks is displayed together with its name, description (by hovering the mouse over the name), priority, progress indicator, current owner, estimated effort, actual effort, projected effort and numeric task identifier. Clicking on the task name will bring up the Task Details page which is described in more detail in section 8.2. This allows you to edit the details of an existing task.

You can perform the following actions on a task from this screen:

- New Task inserts a new task in the task list under the specified requirement, with a default set of values. The task will be associated with the specified requirement and current release/iteration.
- > Delete Task deletes the task from the project.
- Refresh updates the list of requirements and tasks from the server, useful if other people are adding requirements and/or tasks to this release/iteration at the same time.
- Apply Filter Applies the entries in the filter boxes to the list of requirements and all their associated tasks (*it does not filter the tasks themselves*).
- Clear Filters Clears the current filter, so that all requirements associated with the current release/iteration are shown.
- Edit Clicking the [Edit] button to the right of the requirement or task allows you to edit the item inline directly on this screen. Only columns visible will be editable.
- > Show Level Allows you to quickly expand/collapse all the requirements in the list.

7.2.3. Test Case Mapping

This mode displays the test case mapping information for the release in question:

✓	able Test Cases: Name			V	Coverage: Test #	Name	Status
	Constant Tests	^			TC000004	Ability to create new author	N/A
	Ability to create new book				TC000002	Ability to create new book	N/A
	Ability to edit existing book		Add >		TC000005	Ability to edit existing autho	N/A
	Ability to create new author		Remove <		TC000003	Ability to edit existing book	N/A
	Ability to edit existing autho		Remove All		TC000006	Ability to reassign book to di	N/A
	Ability to reassign book to di		Active All		TC000009	Author management	N/A
	Regression Tests				TC000008	Book management	N/A
	🗉 💼 Scenario Tests						
_		\sim					

The pane consists of two lists of test cases, the one on the left being the hierarchical list of the test cases belonging to the project arranged in test folders. The right box (which will initially be empty) contains the list of test cases mapped to this release/iteration. The test cases in this box include columns for their ID and name. Hovering the mouse over the names of the test cases in either box will display a "tooltip" consisting of the test case name, place in the folder structure and a detailed description. Clicking on the hyperlinks in right-hand box will jump you to the test case details screen for the test case in question (see section 5.2.9).

To change the test case mapping for this release, you use the buttons (Add, Remove, Remove All) positioned between the two list-boxes. The <Add> button will move the selected test cases from the list of available on the left to the list of mapped on the right. Similarly the <Remove> and <Remove All> buttons will remove either the selected or all the test cases from the right list-box and add them back to the left list-box.

Finally, as a shortcut you can click the "Create Test Set from This Release" link to create a new test set from this release, that will include all of the test cases associated with this release. This is useful in regression testing when you have created a new release and want to be able to quickly assign a tester to ensure that all the functionality in the release works as expected.

7.2.4. Comments

The Comments tab shows the current discussion thread made on this release:

Incidents *	Reqs & Tasks	Test Cases *	Comments	Custom Props *	Test Runs	Attachments
To add a new comm	ent to this requireme	nt, please enter it bel	ow and click the [Sa	ve] button:		
Font	Size	▼ B <i>I</i> <u>U</u>	│≣≡≡ ≡ │ ⋸ Е	健健 %	æ 🔟 💙 💆 æ	
Existing Com	ments					

All existing comments are listed in order by entered date. To create a new comment, enter the text into the text box, and then click the Save button.

7.2.5. Custom Properties

In this mode, the main pane displays any custom properties that the project owner has defined for releases. To learn more about how to setup and configure custom properties for a project, please refer to the *SpiraTest Administration Guide*. Assuming that custom properties have been defined for your project, you will see a list of optional parameters that can be set on the release. These can be either freetext or drop-down-lists. In the example below, you can enter Notes and/or the Operating System that the release is intended for.

Incidents *	Tasks *	Test Cases *	Custom Props *	Test Runs *	Attachments	History *	
The following are the	custom properties o	f this artifact:					
Notes:	This is the first	version of the system	1		~		
Operating System	Windows Vista				V		

Once you are satisfied with the values for the custom properties, simply click [Save] or [Save and New] to commit the changes.

7.2.6. Test Runs

This view displays the list of all the test runs executed against the release. Each test run is listed together with the date of execution, the name of the test case, the name of the tester, the release/version of the system that the test was executed against, the name of the test set (if applicable), the overall execution status for the test case in that run and a link to the actual test run details (see section 5.6). In addition, you can choose to display any of the custom properties associated with the test run.

> <u>Re</u>	fresh Apply Filter Clear Filter	s - Show/hide colum	ns – 🔻 🔻							
1	Fest Run Name ▲▼	Execution Date AV	Test Set ▲▼	Release ▲▼	Status ▲▼	Est. Dur. ▲▼	Act. Dur. AV	Web Browser ▲▼	Operating System ▲▼	Run # A
			Any 🔻	1.0.0.0 - Librar, 🔻	- Any - 🔻			- Any - 🔻	- Any - 🔻	TR
	Ability to edit existing book	1-Dec-2003		1.0.0.0	Caution	0.1h	0.8h			TR000010
	Ability to create new author	1-Dec-2003	Testing Cycle for Release 1.0	<u>1.0.0.0</u>	Failed	0.1h	1.5h			TR000004
	Ability to edit existing book	1-Dec-2003	Testing Cycle for Release 1.0	<u>1.0.0.0</u>	Passed	0.1h	1.5h			TR000003
	Ability to create new book	1-Dec-2003		1.0.0.0	Failed	0.2h	1.2h	Opera	Windows 2003	TR000012
	Ability to create new book	1-Dec-2003	Testing Cycle for Release 1.0	<u>1.0.0.0</u>	Failed	0.2h	1.3h	Internet Explorer	Windows XP	TR000001

The "customize columns" drop-down list allows you to change the fields that are displayed in the test run list as columns. To show a column that is not already displayed, simply select that column from the list of "Show..." column names and to hide an existing column, simply select that column from the list of "Hide..." column names. The displayed columns can be any standard field or custom property.

You can also filter the results by choosing items from the filter options displayed in the sub-header row of each field and clicking the "Apply Filter" link. In addition, you can quickly sort the list by clicking on one of the directional arrow icons displayed in the header row of the appropriate field.

7.2.7. Builds

This view displays the list of builds associated with the current release/iteration. Each build is listed together with its name, creation date, status (whether the build succeeded or failed), and last updated date. Clicking on the hyperlink for the build name will open up the Build Details page which is described in section 7.5. of this manual.

Incidents * Reqs & Tasks *	* Test Cases *	Comments	Custom Props *	Test Runs *	Builds	Attachments *	History *	
> <u>Refresh</u> <u>Apply Filter</u> <u>Clea</u>	ar Filter							
Build Name ▲▼	Creat	tion Date ▲▼		Status ▲▼		Last Updated AV		ID ▲▼
	> 3/4/2	2004 🔳		Any 🔻 🔻				BL
Build 0015	12-Ma	ar-2004		Succeeded		12-Mar-2004		BL000015
Build 0014	11-Ma	ar-2004		Succeeded		11-Mar-2004		BL000014
Build 0013	10-Ma	ar-2004		Failed		10-Mar-2004		BL000013
Build 0012	9-Mar	-2004		Failed		9-Mar-2004		BL000012
🖺 <u>Build 0010</u>	8-Mar	-2004		Failed		8-Mar-2004		BL000010
Build 0011	8-Mar	-2004		Succeeded		8-Mar-2004		BL000011
🖺 <u>Build 0009</u>	7-Mar	-2004		Succeeded		7-Mar-2004		BL000009
Build 0008	6-Mar	-2004		Succeeded		6-Mar-2004		BL000008
🔁 <u>Build 0007</u>	5-Mar	-2004		Failed		5-Mar-2004		BL000007
Build 0005	4-Mar	-2004		Failed		4-Mar-2004		BL000005
1 Build 0006	4-Mar	-2004		Succeeded		4-Mar-2004		BL000006
Show 15 🔻 rows per page						н	 Displaying pa 	ge 1 🗳 of 1 🕨

You can also filter the results by choosing items from the filter options displayed in the sub-header row of each field and clicking the "Apply Filter" link. In addition, you can quickly sort the list by clicking on one of the directional arrow icons displayed in the header row of the appropriate field.

7.2.8. Attachments

In this mode, the lower section of the screen displays the list of documents that have been "attached" to the release. The documents can be in any format, though SpiraTeam® will only display the icon for certain known types.

In	cidents * Reqs & Tasks * Te	st Cases * Comments	Custom Props *	Test Runs *	Builds	Attachments	History *	
> <u>A</u>	dd New Add Existing <u>Remove</u>	Refresh Apply Filter C	Clear Filter 🔽 Inclue	le Source Code D	ocuments			
~	Document Name ▲▼	Type ▲▼	Size ▲▼	Edited	By▲▼	Edited On ▲▼	Author ▲▼	ID ▲▼
		Any 🔻		Any -	• 🔻		Any 🔻	DC
	Document Filename10.pptx	Source Code	105 KB	Fred B	loggs	19-Dec-2011	Fred Bloggs	DC-000009
	Bug Stack Trace.txt	Stack Trace	1 KB	Joe P	Smith	4-May-2006	Joe P Smith	DC000010
	Error Stacktrace.doc	Stack Trace	24 KB	Fred B	loggs	1-May-2006	Fred Bloggs	DC000004
Show	v 15 🔻 rows per page						 Displaying page 	1 S of 1 ► ►

The attachment list includes the filename that was originally uploaded together with the file-size (in KB), name of the person who attached it and the date uploaded. In addition, if you position the pointer over the filename and hold it there for a few seconds, a detailed description is displayed as a tooltip.

To actually view the document, simply click on the filename hyperlink and a new web browser window will open. Depending on the type of file, this window will either display the document or prompt you for a place to save it on your local computer. To remove an existing attachment from a release/iteration, simply click the <Remove> button and the attachment will be removed from the list.

If you are using SpiraPlan or SpiraTeam (but not SpiraTest) you can also choose to include file attachments stored in a linked version control system (e.g. Subversion, CVS, Perforce, etc.) by selecting the "Include Source Code Documents" option.

To attach a new document or web link to the release/iteration, you need to click on the "Add New" hyperlink to open the "Add Attachment" dialog box. There are three different types of item that can be attached to a release or iteration:

To upload a file, choose "File" as the type and then click the Browse button and select the file from your local computer, optionally enter a detailed description then click the <Upload> button. The document will be copied from your computer and attached to the artifact.

- To attach a web-link (URL) to the artifact, you need to choose "URL" as the type and then enter the fully qualified URL (e.g. <u>http://mywebsite.com?Document=1</u>), an optional description and then click the <Upload> button to attach the web-link.
- To attach a screenshot to the artifact, you need to choose "Screenshot" as the type and then copy the image to your computer's clipboard (e.g. on Windows computers, the PRINT SCREEN button captures the current page and adds to the clipboard). Once the image is in the clipboard, click on the "Paste image from clipboard" hyperlink and the item will appear in the preview window. You can then fill in the other fields and click <Upload> to attach the image.

Note: If you are using a non-Windows® computer (e.g. Macintosh®) that doesn't put file extensions on filenames (e.g. .xls for an Excel sheet) automatically, then you will need to manually add the file extension to the filename before uploading if you want it to be displayed with the correct icon in the attachment list.

You can also associate an existing document (that's already stored in SpiraTeam) with the release. To do that, click on the "Add Existing" hyperlink to bring up the add file association dialog box. You can then choose to either associate a document stored in the SpiraTeam Documents repository or (in the case of SpiraPlan/SpiraTeam but not SpiraTest) from the linked source code repository. In either case you first select the appropriate folder, and then pick the document(s) from the file list on the right. In the case of a source code file association you can also add a comment.

7.2.9. View History

In this mode, the main pane displays the list of changes that have been performed on the release artifact since its creation. An example release change history is depicted below:

Incidents *	Incidents * Reqs & Tasks * Test Cases *		Comments	Custom Props *	Test Runs *	Builds	Attachments *	History *	
> Refresh Apply	<u>y Filter Clear</u>	Filter Admin \	<u>/iew</u>						
Change ID ▲▼	Chan	ge Date ▲∇	Field Name 🔺 🔻	Old Valu	8 ▲▼	New Value ▲▼	Char	nged By ▲▼	Change Type ▲▼
							Any	/- 🔻	Any 🔻
<u>10</u>	2-Ma	/-2006	Name	Need to c	reate new book	Ability to create r	ew book Fred	Bloggs	Modified
1	4-Mai	-2005	Version #	1.0.0		1.0.0.0	Joe F	P Smith	Modified
Show 15 Trows	s per page						ŀ	ৰ Displaying p	oage 1 S of 1 ► ►

The change history displays the date that each change was made, together with the fields that were changed, the old and new values and the person who made the change. This allows a complete audit trail to be maintained of all changes in the system. In addition, if you are logged in as a project administrator you can also click on the "Admin View" hyperlink to revert any unwanted changes.

7.3. Iteration Planning

As well as being able to assign requirements, tasks and incidents to releases and iterations individually through the Release/Iteration details page (see above), you can also do this on the Iteration Planning screen. When you are first planning the iteration, and need to batch assign requirements, tasks and incidents from the backlog of unscheduled items to the iterations, it is usually more convenient to use the Iteration Planning screen. To access this screen, go to Planning > Iterations, choose the current release and the following screen will be displayed:

	2 (3/1/2004 - 3/12/2004) - <u>Re</u>							216.0h 95.8h	120.3h
	001 (3/1/2004 - 3/4/2004)			002 (3/5/2004 - 3/			1.0.0.0003 (3/9/2	004 - 3/12/2004)	
Available 96.0h	Utilized 32.0h	Remaining 64.0h	Availa 24.0		tilized 32.0h	Remaining -8.0h	Available 72.0h	Utilized 31.8h	Remaining 40.3h
Ability to ad	d new books to the system	16.0h	El 🏠 Abil	ity to delete existin	ng books in the sys	tem 16.0h	Ability to crea	te different editions	17.8
Ability to ed	it existing books in the syste	m 16.0h	🗆 🍟 Abil	ity to edit existing	authors in the syst	em 16.0h	Ability to delet	te existing authors in the sy	stem 13.9P
Develop new	book entry screen	8.0h	Ref:	ctor book screen	to include delete bu	tton 8.0h	Refactor autho	or screen to include delete l	outton 6.01
Create book	object insert method	5.0h	Crei	ate book object de	lete method	5.0h	Create author	object delete method	4.8
Write book	object insert queries	3.0h	II 🖄 Wei	e book object dele	te query	3.0h	Write author o	bject delete query	3.1
Develop edit	book details screen	8.0h	🗆 🏠 Dev	elop edit author de	tails screen	8.0h	Develop new e	dition entry screen	9.01
Create book	object update method	5.0h	Crea	ate author object u	pdate method	5.0h	Create edition	object insert method	5.81
Write book	object update queries	3.0h	🗆 🖄 Writ	e author object up	date queries	3.0h	Write edition of	bject insert queries	3.01
Contraction of the second	incidents ete Task <u>Refresh</u> nt/Task Name	now Level 🔻	Apply Filter	Clear Filters Progress	Owner	Est. Effort	Act. Effort	Proj. Effort	Edi
e Requireme	no rask name		- Any - V	- Any V	- Any -		ACL ENOIL	Proj. cilott	> Filt
	to edit existing subjects in	n the system	- Medium		Joe P Smith	3.0h		15.0h	► Edit
(F) Ability		and the second se	- Medium	No Tasks	Joe P Smith				► Edi
	to completely backup the				100000000000000000000000000000000000000				Annual Statement of the
🗉 🏝 Ability	to completely backup the		- Low	No Tasks	Fred Bloggs				► Edi
] ⊕ ⁴ Ability] ⊎ ⊕ ⁴ Ability	to completely backup the to import from legacy sys to create new users in the	tem x 4	- Low - Medium	No Tasks No Tasks	Fred Bloggs Fred Bloggs				 Edit Edit

This screen is divided into two sections:

- The top part of the screen displays the iterations contained within the current release (up-to three per page) together with the list of requirements, tasks and incidents currently assigned to the iteration. Also any of these item directly associated with the release itself are displayed in the first panel.
- The bottom part of the screen displays the list of accepted, unplanned (not started) requirements and tasks and unplanned, open incidents that need to be scheduled for a specific iteration. This is essentially the backlog of requirements and their associated tasks, together with any outstanding incidents that need to be scheduled. The requirements and tasks are shown in one tab and the incidents are shown in the other

To navigate around the release, you use the small black arrow buttons located at the top of the iteration panels. These allow you to quickly move to the previous/next iteration in the currently selected release. To change the release itself, you use the drop-down-list at the top-right of the page to change to a different release.

7.3.1. Scheduling Requirements / Tasks / Incidents to Iterations

To assign a new requirement, task, or incident to the iteration schedule, you either position the mouse pointer over a single item's icon, dragging it to the desired iteration or you select several checkboxes in the requirements / tasks / incident list and then drag all the selected items in one go. Once the requirement / task / incident(s) have been added to the iteration, the utilized effort for the iteration will increase, and the available effort will decrease by the same amount.

Release <u>1.0.0.0</u>	(3/1/2004 - 3/12/2004)) - <u>Refresh</u>						Available 216.0h	Utilized 95.8h	Remaining 120.3h
	01 (3/1/2004 - 3/4/2004		1.0.0.0002 (3/5/	2004 - 3/8/2004)			1.0.0.0003 (3/9	/2004 - 3/12/2004)		
Available 96.0h	Utilized 32.0h	Remaining 64.0h	Available 24.0h	Utilized 32.0h	Remaining -8.0h	1	Available 72.0h	Utilized 31.8h	R	emaining 40.3h
🍟 Ability to add	d new books to the sys	tem 16.0h	🗌 🛗 Ability to dele	ete existing books in t	he system	16.0h	🗌 🖄 Ability to cre	ate different editions		17.8
📸 Ability to edi	t existing books in the	system 16.0h	Ability to edit	existing authors in th	e system	16.0h	Ability to ed	it existing authors in	the system n	<u>13.9</u>
Develop new	book entry screen	8.0h	Refactor book	k screen to include de	lete button	8.0h	Refactor aut	hor screen to include	delete buttor	<u>n</u> 6.0
Create book	object insert method	5.0h	Create book	object delete method		5.0h	Create autho	or object delete meth	od	4.8
🖆 Write book o	bject insert queries	3.0h	🗌 🏠 Write book ol	bject delete query		3.0h	🗌 🖆 Write author	object delete query		3.1
Develop edit	book details screen	8.0h	🔲 🏠 Develop edit a	author details screen		8.0h	🗌 🖆 Develop new	edition entry screen		9.0
Create book	object update method	5.0h	Create author	r object update metho	<u>d</u>	5.0h	🔲 🖆 Create editio	on object insert meth	od	5.8
🖄 Write book o	bject update queries	3.0h	🔲 🎦 Write author	object update queries		3.0h	🔲 🎦 Write edition	object insert querie	5	3.0

If you schedule a requirement for a specific iteration, all the child tasks that have not yet been started, will follow the parent requirement in being associated with the iteration.

Note: The system will allow you to assign more tasks/incidents to an iteration than is possible to complete, however this will result in a negative value for 'available effort'. If this happens, the "Available Effort" value will be displayed in red, and you need to rebalance the items, extend the iteration length or add project personnel resources to the iteration.

7.3.2. Rescheduling Requirements / Tasks / Incidents

To move planned items from one iteration to another, you either position the mouse pointer over a single item's icon, dragging it to the desired new iteration or you select several checkboxes in the existing iteration and then drag all the selected items to the destination iteration in one go. To remove a requirement / task / incident from an iteration, you should just drag and drop it from the iteration panel back to the requirement / task / incident task list at the bottom of the page. This will return the item to the list of unplanned items at the bottom of the page.

If you reschedule a requirement to a new iteration, all the child tasks that have not yet been started, will follow the parent requirement in being associated with the new iteration. The tasks that have already started will remain associated to the old iteration.

Note: Once a task has changed status from 'not-started' to any of the other statuses, its checkbox will be disabled and you will need to return it to the 'not started' status before attempting to reassign it. This is a safety feature that prevents you from accidentally rescheduling a task that is currently being worked on.

7.3.3. Task Assignment Rules

When you move a task from one iteration to another or assign a new task to the iteration, the system makes the following changes to the task automatically:

- > The release/iteration that the task is assigned-to is updated
- The start-date and end-date of the task is changed to match that of the iteration if the dates lie outside the bounds of the iteration. This means that the task may change from being on-schedule to late-starting depending on whether the iteration is already in progress

7.3.4. Editing the Requirement / Task / Incident List

As well as being able to schedule the requirements, incidents and tasks with the various iterations in the upper portion of the screen, the incident and requirement / task lists displayed on the bottom half of the screen include the same editing functions found in the Requirements, Task, and Incident List pages.

7.4. Planning Board

The SpiraTeam Planning Board is a great way to visualize the requirements, tasks and incidents planned for each iteration in your project. Based on the principles of the Scrum and Kanban methodologies, the Planning Board lets you see each task, requirement or task as a virtual "card" that is grouped by the iteration it's been scheduled for:

	Planning Board					Role: Ma
laying the iteration plan for the selected	d release: (🗹 Include Tasks, 📝 Include Inc	cidents)	Sele	ected Release: 1.1.0.0 - Li	brary System Release 1.1	
Unassigned Items)						
R020 ility to add new subjects to the system wner: Joe P Smith stimated Effort: 3.0h rojected Effort: 15.0h	Ability to edit existing subjects in the s Owner: Joe P Smith Estimated Effort: 3.0h Projected Effort: 15.0h		er systems billity to Owner: Estimate Projecter			
I <u>IN30</u>	N21	1 IN40	N45		1 <u>N46</u>	E
nnot install system on Windows ME Release 1.1.0.0 (10/15/2004 - 10/27	Ability to associate multiple authors	Test Training Item	Test System Lin		Test System Limitation 85.7h / Remaining: 112.3h	-
Innot install system on Oracle 9i wmer: stimated Effort: origicated Effort: 	1 RQ8	different authors		ப <u>ாки</u>	d: 29.0h / Remaining: -5.0h	
	Owner:	Owner	Fred Bloggs	Create book-subject ma	Fred Bloggs	
stimated Effort. 18.0h rojected Effort 18.0h IK12 este book-subject manoion delete meth	Estimated Effort Projected Effort	Owner Estimated Effort Projected Effort	Fred Bloggs 8.0h 8.0h	Owner Estimated Effort Projected Effort	Fred Bloggs 5.0h 5.0h	
stimated Effort: 18.0h projected Effort: 18.0h I <u>IX12</u> Difference: The second secon	Estimated Effort Projected Effort D IK13 Create book subject manning quere 10/27004) <u>View</u>	11.0h Owner. 11.0h Projected Effort II.0h Projected Effort II.0h Refactor book details screen	Fred Bloggs 8.0h 8.0h	Owner Estimated Effort Projected Effort Modify book insert Available: 72.0h / Utilized	Fred Bloggs 5.0h 5.0h	
stimated Effort. 18.0h rojected Effort 18.0h IK12 este book-subject manoion delete meth	Estimated Effort Projected Effort: Display the subject mannion query 10/23/2004) <u>View</u> Display the subject mannion query 10/23/2004) <u>View</u> Display the subject mannion query Display t	11.0h Owner: 11.0h Projectad Effort 11.0h Projectad Effort 11.0h International State	Fred Bloggs 8.0h 8.0h	Owner Estimated Effort Projected Effort Motify book insert Available: 72.0h / Utilized	Fred Bioggs 5.0h 5.0h 2:26.7h / Remaining: 45.3h sert/lupdate queries to include a Fred Bioggs ort: 6.0h	de edition
stimated Effort: 18.0h INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2 INT2	Estimated Effort Projected Effort: Display the subject mannion query 10/23/2004) <u>View</u> Display the subject mannion query 10/23/2004) <u>View</u> Display the subject mannion query Display t	11.0h 11.0h 21.0 Projected Effort Projected Effort Commer Subjects Subjects Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Commer Co	Fred Bloggs 5.0h 8.0h n to include author dron-do creen to include edition drop Fred Bloggs 3.0h	Owner Estimated Effort Projected Effort Wolfly book insert Available: 72 0h / Utilized	Fred Bioggs 5.0h 5.0h 2:26.7h / Remaining: 45.3h sert/lupdate queries to include a Fred Bioggs ort: 6.0h	de edition
stimated Effort. 18.0h ISD IK12 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 IR03 I	Estimated Effort Projected Effort 10/23/2004) View dittons Ability to associate authors with Owner: Joe PS Estimated Effort 16 Oh Projected Effort 17 7b D TK34 Create authorswheet manning inser	11.0h Owner: 11.0h Projected Effort 11.0h Commercial Stress	Fred Bloggs 5.0h 8.0h n to include author dron-do creen to include edition drop Fred Bloggs 3.0h 3.0h	Owner Estimated Effort Projected Effort Motify book ingent Available: 72.0h / Unitized Unitized Podown Modify book in Owner: Estimated Eff Projected Effo	Fred Bioggs 5.0h 5.0h 2:26.7h / Remaining: 45.3h 2:26.7h / Remaining: 45.3h 5:21 5:21 2:25.7h / Remaining: 45.3h 5:21 2:21 2:21 2:21 2:21 2:21 2:21 2:21	de edition

When you first click on Planning > Planning Board the system will ask you to select a Release. Upon selecting a Release, the system will display all the requirements, tasks and incidents planned for the release, grouped by the iteration they've been assigned-to. Any items not assigned to any release or iteration will be listed in the (Unassigned Items) section. You can click on the expand/collapse icons to hide any releases/iterations that are not relevant.

Each item will be displayed with the name and ID of the artifact, together with the owner, estimated effort and projected effort. In addition, the left border will display a color based on the priority of the item and a progress bar will be displayed that illustrates the current progress of that item. You can easily move items from one iteration to another by simply drag and dropping them. To move multiple items, you just need to select their checkboxes and then drag one of the items.

To view the resource assignments of a particular iteration, click on the "View" hyperlink next to the iteration and the system will display the list of items in the iteration, grouped by the resource they are assigned to:

piraTear	ກ ໍ _		My Profile Administ		ary Information Syst					He
uirements Releas	ses Iterations F	My Page Project H Japping Board	ome Planning	Testing	Tracking	Reporting				Role: Ma
		elease: (🗹 Include Tasks,				5.0	elected Re	lease: 1.1.0.0.0001 - Iterati	ion 001	T
(Unassigned Items		elease: (🗷 Include Tasks,	. 🗵 Include Incidents)			36	nected Re	lease.		
Resource: Fred							Availa	ble: 16.0h / Utilized: 16.0	h / Romaining: 0.0h	
	T Dioggs [Dack]						Avalia	ble. 16.017 Oblized. 16.0	n / Remaining, U.Un	
<u>С) тк10</u>		의 <u>1K11</u>		1 <u>TK12</u>						
Develop book-subject	t association screen	Create book-subject ma	apping insert method	Create book-subject n	napping delete r	nethod				
Owner	Fred Bloggs	Owner	Fred Bloggs	Owner:	Fred Blogg	5				
Estimated Effort	8.0h	Estimated Effort:	5.0h	Estimated Effort	3.0h					
		Estimated Effort: Projected Effort	5.0h 5.0h	Estimated Effort Projected Effort	3.0h 3.0h					
Estimated Effort Projected Effort	8.0h 8.0h	Projected Effort		Projected Effort:			Availa	ble: 16.0h / Utilized: 13.0l	h / Remaining: 3.0h	
Estimated Effort Projected Effort Resource: Joe	8.0h 8.0h	Projected Effort	5.0h		3,0h	ude author dro		ப <u>тк15</u>	h / Remaining: 3.0h	uthor
Estimated Effort Projected Effort Resource: Joe	8.0h 8.0h P.Smith [Back]	Projected Effort		Projected Effort	3,0h	ude author dro		ப <u>тк15</u>		uthor
Estimated Effort Projected Effort Resource: Joe ROZ Ability to associate bo Owner Estimated Effort	8.0h 8.0h P.Smith [Bask] Docks with different sub Joe P.Smith 15.0h	Projected Effort D TK13 Create book-sub Owner Estimated Effort	5.0h ject mapping queries Joe P Smith 2.0h	Projected Effort:	3,0h	e P Smith		신 <u>TK15</u> Modify book insert/upd Owner Estimated Effort:	late queries to include at Joe P Smith 5.0h	uthor
Estimated Effort Projected Effort Resource: Joe ROT Ability to associate bo Owner	8.0h 8.0h P.Smith [Back]	Projected Effort DIK13 Create book-sub Owner	5.0h ject mapping queries Joe P Smith 2.0h	Projected Effort.	3.0h Is screen to incli	e P Smith 0h		신 <u>TK15</u> Modify book insert/upd Owner	late queries to include an Joe P Smith	uthor
Estimated Effort Projected Effort Projected Effort Resource: Joe Ability to associate bo Owner: Estimated Effort	8.0h 8.0h P.Smith [Bask] Docks with different sub Joe P.Smith 15.0h	Projected Effort D TK13 Create book-sub Owner Estimated Effort	5.0h ject mapping queries Joe P Smith 2.0h	Projected Effort:	3.0h Is screen to incl G	e P Smith 0h		신 <u>TK15</u> Modify book insert/upd Owner Estimated Effort:	late queries to include at Joe P Smith 5.0h	uthor

Any items not assigned to a resource will be listed in the (Unassigned Items) section. You can click on the expand/collapse icons to hide any resources that are not relevant. The system will display a progress bar for each resource to illustrate the allocation for that resource. Any resource that has a progress bar that is completely green has been fully scheduled and should not have any additional items assigned. If the progress bar for that resource turns red, it means that they have been over-scheduled and you need to reassign some of the items.

Each item will be displayed with the name and ID of the artifact, together with the owner, estimated effort and projected effort. In addition, the left border will display a color based on the priority of the item and a progress bar will be displayed that illustrates the current progress of that item.

You can easily move items from one resource to another by simply drag and dropping them. To move multiple items, you just need to select their checkboxes and then drag one of the items.

7.5. Build Details

When you click on a build entry in the build list, you are taken to the build details page illustrated below:

spiraTeam [°]	Welcome, Fred Bloggs Libra	ry Information System 🔻 🔻	<u>My Profile</u> <u>Administrati</u>	on Log Out Search	•
	My Page Project I	lome Planning	Testing Tra	cking Reporting	
Requirements Releases > Build Details	s <u>Iterations</u> <u>Planning I</u>	<u>Board</u>			
<< Back To Build List	Build: 🖺 Build 001	5 [BL:000015]			
Lteration 003 P Build 0015	Name: Build	0015			
Build 0014	Description:				
Build 0013 Build 0013					
Build 0012					
	Status: Suc	ceeded	Cre	ation Date:	3/12/2004 12:00:00 AM
			Las	t Updated:	3/12/2004 12:00:00 AM
	Incidents	Revisions *	Test Runs		

This page is made up of three areas; the left pane is the navigation window, the upper part of the right pane contains the build detailed information itself, and the bottom part of the right pane displays different information associated with the build.

The navigation pane consists of a link that will take you back to the build list, as well as a list of the other builds that belong to the same release/iteration as the current one. The top part of the right pane allows you to view the details of the build including a detailed description of why it succeeded or failed. Since builds are populated from an external Continuous Integration server the build information will always be read-only inside the SpiraTeam user interface.

The lower part of the right pane contains tabs that can display different information associated with the build. Each of the tabs - "Incidents", "Revisions", and "Test Runs" - is described separately below.

7.5.1. Incidents

This tab displays the list of incidents that have been fixed in the current build. The grid can be sorted and filtered by using the appropriate controls:

	Incidents *	Revisions *		Test	Runs										
> <u>F</u>	Refresh Apply Filter	Clear Filter	- Show/hide o	columns	- •]									
~	Incident Name	A V	Туре ▲▼		Status ▲▼		Priority ▲▼		Detected By ▲▼	Owner ▲▼		Closed On ▲▼	Operating	System ▲▼	ID ▲▼
			Any	▼	Any	▼	- Any -	•	Any 🔻 🔻	Any	▼		Any	•	IN
	Ability to be a	ccessed by Mozilla	Issue		Assigned		2 - High		Joe P Smith	Joe P Smith					IN000032
	Management		Issue		Assigned		3 - Medium		Joe P Smith	Joe P Smith					IN000033
Sho	w 15 🔻 rows per pa											þ	🛾 🖛 Displayii	ng page 1	¶a of 1 ► ►

7.5.2. Revisions

This tab displays a list of the source code revisions that were included in the current build. The grid can be sorted and filtered by using the appropriate controls:

	Incidents	Revisions *	Test Runs			
> <u>R</u>	efresh <u>Apply Filter</u>	Clear Filter				
~	Revision ▲▼	Author AV	Summary A V	Commit Date ▲▼	Content ∆ ▲▼	Properties ∆ ▲▼
					Any 🔻	Any 🔻
	A rev0016	Fred Bloggs	The artifact was changed in this version	n to fix th 20-Dec-2011	Yes	No
Show	w 15 🔻 rows per pa	ge			🝽 ৰ Displaying p	bage 1 S of 1 🕨 🕅

7.5.3. Test Runs

This tab displays a list of all the tests that have been executed against the current build. The grid can be sorted and filtered by using the appropriate controls:

	Incidents *	Revision	ns #	Test Runs 🕴															
> <u>R</u>	efresh Apply Filter	Clear Filter	- Show/hid	le columns		•													
~	Itest Run Name	▲▼	End Date	Test Set 🔺	•	Release AV		Execution	Status	AV	Est. Dur. ▲▼	Act. Dur. ▲▼	Build ▲▼		Web Brows	er▲▼	Operatin	g System 🔺	′ Test Run # ▲▼
				- Any	•	- Any -	•	- Any -	•				Build 0001	▼	- Any -	•	- Any -	•	TR
	Ability to crea	te new book	3-Dec-2003			<u>1.1.0.00002</u>		Passed			0.0h	1.2h	Build 0001						TR000015
	Ability to edit	existing book	2-Dec-2003			<u>1.1.0.0.0001</u>		Passed			0.1h	1.2h	Build 0001						TR000014
	Ability to crea	te new book	2-Dec-2003			<u>1.1.0.00001</u>		Passed			0.0h	1.2h	Build 0001						TR000013
Sho	w 15 🔻 rows per pa	ge															14 4	Displaying pag	le 1 S of 1 ► ►

8. Task Tracking

8.1. Task List

When you click on the Tracking > Tasks global navigation link, you will initially be taken to the tasks list screen illustrated below:

	My Page Project Homm	e Planning	Testing	acking Reporting				
ncidents	s Tasks <u>Resources</u> <u>Source Code</u>	antai an an Air ann a					F	Role: Manag
New	Task 🗱 Delete 🕏 Refresh 🛛 🖓 Copy 🌐 Tools 🕞	how/hide columns	Filter					
lisplayir	ng 16 - 30 out of 43 task(s) for this project							
1	🗧 Task Name 🔺 🔻	Progress	Status ▲▼	Priority AV	Owner ▲▼	Release △ ▼	ID AV	Edit
		- Any -	- Any - 🔻	- Any - 🔻	- Any - 🔻	- Any - 🔻	ТК	► Edit
	Mrite author object update queries		Not Started	2 - High	Joe P Smith	1.0.0.00002	TK000026	► Edit
8	C Refactor author screen to include delete button		Not Started	2 - High	Fred Bloggs	1.0.0.00003	TK000027	► Edit
	Write edition object insert queries		Not Started	1 - Critical	Fred Bloggs	1.0.0.00003	TK000023	► Edit
1	Create edition object insert method		In Progress	1 - Critical	Fred Bloggs	1.0.0.00003	TK000022	• Edit
	Develop new edition entry screen		In Progress	1 - Critical	Fred Bloggs	1.0.0.00003	TK000021	► Edit
23	Create author object delete method		In Progress	2 - High	Fred Bloggs	10.0.00003	TK000028	► Edit
1	Write author object delete query		In Progress	2 - High	Fred Bloggs	1.0.0.00003	TK000029	► Edit
	Modify book insert/update gueries to include autho		Completed	1 - Critical	Joe P Smith	1.1.0.0.0001	TK000015	► Edit
-	CREfactor book details screen to include author dro		Completed	1 - Critical	Joe P Smith	1.1.0.0.0001	TK000014	► Edit
	Create book-subject mapping queries		Completed	1 - Critical	Joe P Smith	1.1.0.0.0001	TK000013	► Edit
	Create book-subject mapping delete method		Completed	1 - Critical	Fred Bloggs	1.1.0.0.0001	TK000012	► Edit
23.	Create book-subject mapping insert method		Completed	1 - Critical	Fred Bloggs	1.1.0.0.0001	TK000011	► Edit
	Develop book-subject association screen		Completed	1 - Critical	Fred Bloggs	1.1.0.0.0001	TK000010	► Edit
	Modify book insert/update queries to include editi		Completed	1 - Critical	Fred Bloggs	1.1.0.0.0002	TK000017	• Edit
	Refactor book details screen to include edition dr		Completed	1 - Critical	Fred Bloggs	1.1.0.0.0002	TK000016	► Edit

The task list screen displays all the tasks entered for the current project, in a filterable, sortable grid. The grid displays the task number together with fields such as priority, name, assigned owner, start date, end date, scheduled release, etc. The choice of columns displayed is configurable per-user, per-project, giving extensive flexibility when it comes to viewing and searching tasks.

In addition, you can view a more detailed description of the task by positioning the mouse pointer over the task name hyperlink and waiting for the popup "tooltip" to appear. If you click on the task name hyperlink, you will be taken to the task details page described in section 8.2. Clicking on any of the pagination links at the bottom of the page will advance you to the next set of tasks in the list according to the applied filter and sort-order. There is also a drop-down-list at the bottom of the page which allows you to specify how many rows should be displayed in each page, helping accommodate different user preferences.

One special column that is unique to tasks is the 'progress indicator'. This illustrates graphically both the percentage completion of the task and also if the task is either starting late or finishing late. The following table illustrates the different type of status that can be conveyed by the indicator:

Indicator Display	Progress Description
	Task has not yet started, but the scheduled start date is still in the future.
	Task has not yet started, and the start date has elapsed. This is considered a 'Late Starting Task'
	Task has started, and is approximately 25% complete. The scheduled end date is still in the future.
	Task has started, and is approximately 25% complete. However the scheduled end date has elapsed already.

This is a considered a 'Late Finishing Task'.
Task has been 100% completed.

Essentially, the gray section of the bar indicates the % of the task yet to be completed, and the green/red section of the bar indicates the % of the task that has already been completed. If the bar changes from green to red it means that the end date has been reached and the task is not yet complete, and if the background changes from gray to yellow it means that the task has not yet started, but the scheduled start date has passed.

8.1.1. Sorting and Filtering

You can easily filter and sort the list of tasks as illustrated in the screen-shot below:

	My Page	Project Home Plan	ning Testing	Tracking	Reporting			
ncidents	Tasks Resources Source Code							Role: Mana
New T	ask 🗱 Delete 🗞 Refresh 🛛 🛄 Copy	Tools - Show/hide colur	nns – 🔻 🔻 🛛 🔻 Eilt	ter				
Displaying	1 - 4 out of 4 task(s) for this project							
1	Task Name ▲▼	Progress	Status ▲▼	Priority △ ▼	Owner ▲▼	Release AV	ID AV	Edit
1		Running Late 🔻	- Any 🔻	- Any - 🔻	- Any - 🔻	- Any - 🔻	ТК	► Edit
23	Create edition object insert method		In Progress	1 - Critical	Fred Bloggs	1.0.0.0.0003	TK000022	• Edit
	Develop new edition entry screen		In Progress	1 - Critical	Fred Bloggs	1.0.0.0003	TK000021	• Edit
20			In Progress	2 - High	Fred Bloggs	1.0.0.00003	TK000029	+ Edit
5	Write author object delete guery							

To filter the list by progress, status, priority, owner or release, you simply choose an item from the appropriate drop-down list, and for the other fields, you enter a free-text phrase then click <Filter> or press the <ENTER> key to apply the different filters. Note that the name field is searched using a "LIKE" comparison, so that searching for "database" would include any item with the word database in the name. The other freetext fields need to be exact matches (e.g. dates, task numbers).

To change the column that is sorted, or to change the direction of the current sort, simply click on the up/down arrow icon in the appropriate column. The currently sorted column is indicated by the larger, white arrow with the back-border. In the screen-shot above, we have filtered on tasks that are finishing late, sorted in order of decreasing priority.

Clicking on Filter > Clear Filter removes any set filters and expands the task list to display all tasks for the current project, and clicking on Filter > Save Filter allows you to save the filter to your 'My Page' for use in the future. The list of saved filters can also be retrieved by clicking Filter > Retrieve Filter.

8.1.2. New Task

Clicking on the <New Task> button creates a new task in the grid with an initial set of information. You can click on the name of the task to edit its information.

8.1.3. Delete

Clicking on the <Delete> button deletes the tasks whose check-boxes have been selected in the task list.

8.1.4. Refresh

Clicking on the <Refresh> button simply reloads the list of tasks; this is useful when new tasks are being added by other users, and you want to make sure you have the most up-to-date list displayed.

8.1.5. Show / Hide Columns

This drop-down list allows you to change the fields that are displayed in the task list as columns for the current project. To show a column that is not already displayed, simply select that column from the list of "Show..." column names and to hide an existing column, simply select that column from the list of "Hide..." column names. This is stored on a per-project basis, so you can have different display settings for each project that you are a member of. The fields can be any of the built-in fields or any of the custom properties set up by the project owner.

8.1.6. Edit

Each task in the list has an <Edit> button display in its right-most column. When you click this button or just click on any of the cells in the row, you change the item from "View" mode to "Edit" mode. The various columns are made editable, and <Update> <Cancel> buttons are displayed in the last column:

	piraTeam N	y Page	Project Home	Planning Te	sting Tracking	Reporting			
icider	its Tasks			CONTRACTOR OF					Role: Project Ow
Nev	v Task 🗱 Delete 🛛 🗟 Refresh 🕴 📮	Copy 🗗	Export - Show/hi	de columns 💌	Tilter				
isplay	ving 1 - 4 out of 4 task(s) for this project								
1	ਭ Task Name ▲▼		Progress	Status ▲▼	Priority △ ▼	Owner ▲▼	Release ▲▼	Task # ▲▼	Edit
			Running Late 🔻	Any 🔻	- Any 🔻	Any 🔻	Any 🔻	ТК	• Filter
	Create edition object insert method			In Progress	1 - Critical	Fred Bloggs	1.0.0.0003	TK000022	- Edit
	Develop new edition entry screen	=1		In Progress 🔻 🗐	1 - Critical 🔻 🖽	Fred Bloggs 🔻 🗐	1.0.0.0003		Update Cance
	Write author object delete query			In Progress 🔻	2 - High 🔻	Fred Bloggs 🔻	1.0.0.0003		
	Create author object delete method			In Progress	2 - High	Fred Bloggs	1.0.0.00003	TK000028	+ Edit

If you click <Edit> on more than one row, the <Update> and <Cancel> buttons are only displayed on the first row, and you can make changes to all the editable rows and then update the changes by clicking the one <Update> button. Also, if you want to make the same change to multiple rows (e.g. to change five tasks from "Not Started" status to "In Progress"), you can click on the "fill" icon to the right of the editable item, which will propagate the new value to all editable items in the same column.

If you want to edit lots of items, first select their checkboxes and then click the [Edit] button on the same row as the Filters and it will switch all the selected items into edit mode.

When you have made your updates, you can either click <Update> to commit the changes, or <Cancel> to revert back to the original information. Alternatively, pressing the <ENTER> key will commit the changes and pressing the <ESCAPE> key will cancel the changes.

8.1.7. Copying Tasks

To copy a task or set of tasks, simply select the check-boxes of the tasks you want to copy and then click <Copy>. This will make a copy of the current task with its name prefixed 'Copy of' to distinguish itself from the original. Any file attachments will also be copied along with the task itself.

8.1.8. Exporting Tasks

To export a task or set of tasks from the current project to another project in the system, all you need to do is select the check-boxes of the task(s) you want to export and then click Tools > Export. This will then bring up a list of possible destination projects:

spii	aTeam	(Help
	\sim	My Page	Project Ho	me Planning	Testing Tr	acking f	Reporting			
Incidents	Tasks Resources	Source Code								Role: Mana
A New T	ask 😫 Delete 🛛 🗞 Ref	resh 🖵 Copy 👸	Tools -	- Show/hide columns -	V Filter					
Displaying	1 - 4 out of 4 task(s) for this p	project		2 222 - 123		1				
1 6	Task Name ▲▼		Pro	Export Items		. ↓▲	Owner ▲▼	Release ▲▼	ID AV	Edit
			Run	Please select the pro	ect you want to export to:	T	- Arty - 🔻	- Any - 🔻	тк	► Edit
10	Create edition object in:	sert method		Sample Application One		cal	Fred Bloggs	1.0.0.00003	TK000022	+ Edit
	Develop new edition ent	ry screen				cal	Fred Bloggs	1.0.0.0003	TK000021	► Edit
ATT A	Write author object dele	te query				1	Fred Bloggs	1.0.0.00003	TK000029	► Edit
V		lete method		> Export Cancel			Fred Bloggs	1.0.0.00003	TK000028	► Edit

Once you have chosen the destination project and clicked the <Export> button, the tasks will be exported from the current project to the destination project. Any file attachments will also be copied to the destination project along with the tasks.

8.1.9. Printing Items

To quickly print a single task or list of tasks you can select the items' checkboxes and then click Tools > Print Items. This will display a popup window containing a printable version of the selected items.

8.2. Task Details

When you click on a task item in the lists displayed on either the main task list page or on the requirement / release details pages, you are taken to the task details page illustrated below:

<i>spira</i> Team		Library Information System		<u>Administration</u> <u>Log</u> Tracking	Out Search Reporting	•	
Incidents Tasks > Task Details Reso	urces Source Code	1					
<< Back to Task List	💾 <u>Save</u> 🖓 Co	opy 🗞 <u>Refresh</u>	🗱 <u>Delete</u> 🛛 🖨 P	rint 🛛 🖂 Email	1 Subscribe		
Display: All Items	Task: Refactor	r book details scree	n to include editio	on drop-down [TK:	000016]		
 □ □ Ability to associate books with diff □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □		Refactor book details s]
Modify book insert/update queries to	Description:	Font 🔻	- Size V B	Ι Π ≧≦≣ }	∃E⊈⊈⊈ T a∢	﴾ — ∞ 🗳 🗖 ↔ 🗖	
E Ability to associate authors with su							
Develop author-subject association Create author-subject mapping inse							
Create author-subject mapping dele	L						
Create author-subject mapping quer	Priority:	1 - Critical	•		Owner:	Fred Bloggs	•
	Requirement:	Ability to associate books wit	n different editions	▼	Last Updated:	12/1/2003 12:00:00 AM	
	10 C C C C C C C C C C C C C C C C C C C	1.1.0.0.0002 - Iteration 002 10/19/2004 - 10/23/2004)		▼	Creator*:	Fred Bloggs (12/1/2003 12:00:00 AM)	▼
	Schedule *	Comments	Custom Props	Attachments	History	Associations *	

This page is made up of three areas; the left pane is the navigation window, the upper part of the right pane contains the task detailed information itself, and the bottom part of the right pane displays different information associated with the task.

The navigation pane consists of a link that will take you back to the task list, as well as a list of the other related tasks, nested under their parent requirement. This latter list is useful as a navigation shortcut; you can quickly view the peer requirements or tasks by clicking on the navigation links without having to first return to the requirements or tasks list pages. The navigation list can be switched between three different modes:

- The list of tasks matching the current filter
- The list of all tasks, irrespective of the current filter, grouped by their parent requirement

• The list of tasks assigned to the current user

The top part of the right pane allows you to view and/or edit the details of the particular task. You can edit the various fields (name, description, etc.) and once you are satisfied with them, simply click either the <Save> or <Save and New> button at the top of the page to commit the changes. In addition you can delete the current artifact by choosing <Delete>, discard any changes made by clicking <Refresh> or print it by clicking <Print>.

Using the <Email> button on the toolbar, you can send an email containing details of the task to an email address or another user on the system:

Email this artifact t	0:	X
Project User:	Fred Bloggs	
Email Addresses:	Select a user in the project to send to.	
Maaaaa Cubiaati	A list of email addresses, separated by ;	
Message Subject:	Leave blank for default.	
		Send Cancel

You can specify the subject line for the email, and either a list of email addresses, separated by semicolons, or an existing project user .The content of the email is specified in the System Administration – Notification Templates.

The lower part of the right pane can be in one of five possible modes that can be selected: "Schedule", "Custom Properties", "Attachments", "History" and "Revision Associations". Each of the different views is described separately below.

8.2.1. Schedule

In this mode, the main pane displays the general schedule and completion status of the specific task. You can enter/edit the start-date, end-date (i.e. the due-date), estimated, actual and remaining effort. From this the system will calculate the progress, percentage complete and projected final effort.

Schedule *	Comments	Custom Properties	Attachments	History	Revision Associations
Status:*	Completed 🗸	Estimate	d Effort: 3.0	hours	
Progress:	(100%)	Actual Ef	fort: 2.8	hours	
Projected Effort:	3.0 hours	Remainin	g Effort: 0.0	hours	
Start Date:	10/19/2004	End Date	: 10/2	0/2004	

The different effort values mean the following:

- **Estimated Effort** This is the original estimate for how long the task would take to complete.
- Actual Effort This is the current amount of effort that has been expended in completing the task. This does not indicate the completion progress
- Remaining Effort This is the estimate for how it will take from the current state to complete the task. The % complete is calculated from this value in conjunction with the estimated effort:

% Complete = 100% - (Remaining Effort / Estimated Effort)

Projected Effort – This is value that the system is projecting it will take to complete the task. This is calculated from the Actual Effort and Remaining Effort:

Projected Effort = (Actual Effort + Remaining Effort)

If the actual effort is not specified, the projected effort will be the same as the estimated effort.

Note that if this task is currently assigned to a release or iteration, the start-date and end-date of the task must lie within the date-range of the parent release/iteration. If your task looks like it will not be completed in the available timeframe, you will need to contact the project manager to get them to either extend the date-range of the task, or consider moving the task to the next iteration.

8.2.2. Comments

The comments tab will display the comments associated with the task:

Schedule *	Comments	Custom Properties	Attachments	History	Revision Associa
To add a new comment to	this requirement, please	enter it below and click the	e [Save] button:		
Font 🔻	Size 🔻	B <i>I</i> <u>U</u> ≣ ≣ ≡ ∯	目目信信│℡へ」	ce 🔟 🗔 <> 🔟	
Evision Comment	-				
Existing Comment	IS				

All existing comments are displayed in date entered underneath the textbox. To enter a new comment, enter the text into the textbox, and then click the Save button.

8.2.3. Custom Properties

In this mode, the main pane displays any custom properties that the project owner has defined for tasks. To learn more about how to setup and configure custom properties for a project, please refer to the *SpiraTest Administration Guide*. Assuming that custom properties have been defined for your project, you will see a list of optional parameters that can be set on the task. These can be either freetext or drop-down-lists. In the example below, you can enter Notes and/or the project track that the task is associated with.

Schedule *	Custom Properties *	Attachments	History	Revision Associations *	
The following are the	e custom properties of this artifa	act:			
Notes:			<		
Track: Nor	e		▼		

Once you are satisfied with the values for the custom properties, simply click [Save] or [Save and New] to commit the changes.

8.2.4. Attachments

In this mode, the lower section of the screen displays the list of documents that have been "attached" to the task. The documents can be in any format, though SpiraTeam® will only display the icon for certain known types.

S	chedule *	Comments	Custom Props	Attachments	History	Associ	ations			
> <u>Ad</u>	> Add New Add Existing Remove Refresh Apply Filter Clear Filter 🗹 Include Source Code Documents									
~	Document N	ame ▲▼	Туре ▲▼	Size ▲▼	Edited	By▲▼	Edited On AV	7 Author ▲▼	ID ▲▼	
			Any 🔻 🔻		- Any	- •		- Any 🔻	DC	
	Document	Filename22.vb	Source Code	150 KB	Fred E	loggs	19-Dec-2011	Fred Bloggs	DC-000010	
	Document	t Filename24.java	Source Code	100 KB	Fred E	loggs	19-Dec-2011	Fred Bloggs	DC-000011	
Show	15 🔻 rows	per page		·				🛯 🖛 Displaying pag	ge 1 Sof 1 ► ►	

The attachment list includes the filename that was originally uploaded together with the file-size (in KB), name of the person who attached it and the date uploaded. In addition, if you position the pointer over the filename and hold it there for a few seconds, a detailed description is displayed as a tooltip.

To actually view the document, simply click on the filename hyperlink and a new web browser window will open. Depending on the type of file, this window will either display the document or prompt you for a place to save it on your local computer. To remove an existing attachment from a task, simply click the <Remove> button and the attachment will be removed from the list.

If you are using SpiraPlan or SpiraTeam (but not SpiraTest) you can also choose to include file attachments stored in a linked version control system (e.g. Subversion, CVS, Perforce, etc.) by selecting the "Include Source Code Documents" option.

To attach a new document or web link to the task, you need to click on the "Add New" hyperlink to open the "Add Attachment" dialog box. There are three different types of item that can be attached to a task:

- To upload a file, choose "File" as the type and then click the Browse button and select the file from your local computer, optionally enter a detailed description then click the <Upload> button. The document will be copied from your computer and attached to the artifact.
- To attach a web-link (URL) to the artifact, you need to choose "URL" as the type and then enter the fully qualified URL (e.g. <u>http://mywebsite.com?Document=1</u>), an optional description and then click the <Upload> button to attach the web-link.
- To attach a screenshot to the artifact, you need to choose "Screenshot" as the type and then copy the image to your computer's clipboard (e.g. on Windows computers, the PRINT SCREEN button captures the current page and adds to the clipboard). Once the image is in the clipboard, click on the "Paste image from clipboard" hyperlink and the item will appear in the preview window. You can then fill in the other fields and click <Upload> to attach the image.

Note: If you are using a non-Windows® computer (e.g. Macintosh®) that doesn't put file extensions on filenames (e.g. .xls for an Excel sheet) automatically, then you will need to manually add the file extension to the filename before uploading if you want it to be displayed with the correct icon in the attachment list.

You can also associate an existing document (that's already stored in SpiraTeam) with the task. To do that, click on the "Add Existing" hyperlink to bring up the add file association dialog box. You can then choose to either associate a document stored in the SpiraTeam Documents repository or (in the case of SpiraPlan/SpiraTeam but not SpiraTest) from the linked source code repository. In either case you first select the appropriate folder, and then pick the document(s) from the file list on the right. In the case of a source code file association you can also add a comment.

8.2.5. View History

In this mode, the main pane displays the list of changes that have been performed on the task artifact since its creation. An example task change history is depicted below:

Comments Cu	stom Props Attachme	ents History *	Associations *		
er <u>Clear Filter</u> Admin					
Change Date ▲▼	Field Name ▲▼	Old Value ▲▼	New Value ▲▼	Changed By ▲▼	Change Type ▲▼
				Any 🔻	Any 🔻 🔻
19-Dec-2011	Actual Effort	438	420	Fred Bloggs	Modified
19-Dec-2011	Projected Effort	438	420	Fred Bloggs	Modified
19-Dec-2011	Priority	1 - Critical	2 - High	Fred Bloggs	Modified
19-Dec-2011	Release	1.0.0.0001	1.0.0.0002	Fred Bloggs	Modified
19-Dec-2011	Start Date	3/1/2004 12:00:00 AM	3/5/2004 12:00:00 AM	Fred Bloggs	Modified
19-Dec-2011	End Date	3/2/2004 12:00:00 AM	3/6/2004 12:00:00 AM	Fred Bloggs	Modified
19-Dec-2011	Actual Effort	440	438	Fred Bloggs	Modified
19-Dec-2011	Projected Effort	480	438	Fred Bloggs	Modified
	Clear Filter Advisor Change Date ▼ 19-Dec-2011 19-Dec-2011 19-Dec-2011 19-Dec-2011	Clear Filter Actual View Change Date ▲♥ Field Name ▲♥ 19-Dec-2011 Actual Effort 19-Dec-2011 Projected Effort 19-Dec-2011 Priority 19-Dec-2011 Release 19-Dec-2011 Start Date 19-Dec-2011 Start Date 19-Dec-2011 Actual Effort 19-Dec-2011 Release 19-Dec-2011 Start Date 19-Dec-2011 End Date 19-Dec-2011 Actual Effort	Clear Filter Actual Effort Old Value ▲▼ Change Date ▲▼ Field Name ▲▼ Old Value ▲▼ 19-Dec-2011 Actual Effort 438 19-Dec-2011 Projected Effort 438 19-Dec-2011 Projected Effort 438 19-Dec-2011 Priority 1 - Critical 19-Dec-2011 Release 1.0.0.0001 19-Dec-2011 Start Date 3/1/2004 12:00:00 AM 19-Dec-2011 End Date 3/2/2004 12:00:00 AM 19-Dec-2011 Actual Effort 440	Clear Filter Admin View Change Date ▲▼ Field Name ▲▼ Old Value ▲▼ New Value ▲▼ 19-Dec-2011 Actual Effort 438 420 19-Dec-2011 Projected Effort 438 420 19-Dec-2011 Projected Effort 438 420 19-Dec-2011 Projected Effort 438 420 19-Dec-2011 Priority 1 - Critical 2 - High 19-Dec-2011 Release 1.0.0.0001 1.0.0.0002 19-Dec-2011 Start Date 3/1/2004 12:00:00 AM 3/5/2004 12:00:00 AM 19-Dec-2011 End Date 3/2/2004 12:00:00 AM 3/6/2004 12:00:00 AM 19-Dec-2011 Actual Effort 440 438	Clear Filter Mode View Change Date ▲▼ Field Name ▲▼ Old Value ▲▼ New Value ▲▼ Changed By ▲▼ 19-Dec-2011 Actual Effort 438 420 Fred Bloggs 19-Dec-2011 Projected Effort 438 420 Fred Bloggs 19-Dec-2011 Projected Effort 438 420 Fred Bloggs 19-Dec-2011 Projected Effort 438 420 Fred Bloggs 19-Dec-2011 Priority 1 - Critical 2 - High Fred Bloggs 19-Dec-2011 Release 1.0.0.00001 1.0.0.0002 Fred Bloggs 19-Dec-2011 Start Date 3/1/2004 12:00:00 AM 3/5/2004 12:00:00 AM Fred Bloggs 19-Dec-2011 End Date 3/2/2004 12:00:00 AM S/6/2004 12:00:00 AM Fred Bloggs 19-Dec-2011 End Date 3/2/2004 12:00:00 AM S/6/2004 12:00:00 AM Fred Bloggs 19-Dec-2011 Actual Effort 440 438 Fred Bloggs

The change history displays the date that each change was made, together with the fields that were changed, the old and new values and the person who made the change. This allows a complete audit trail to be maintained of all changes in the system. In addition, if you are logged in as a project administrator you can also click on the "Admin View" hyperlink to revert any unwanted changes.

8.2.6. Associations

In this mode, the main pane displays a list of any source code revisions that are associated with this task:

s	Schedule *	Comments	Custom	Props	Attachments	History	Associations *	
> Ad	ld Delete <u>R</u>	efresh Apply Filter	r <u>Clear Filt</u>	er 🔽 In	clude Source Code Re	visions		
~	Artifact Nam	e ▲▼ Art	tifact Type	▲▼ (Creation Date ▲▼	Creator ▲▼	Comment ▲▼	ID ▲▼
		-/	Any - 🔰	7 [Any 🔻		
	A rev0012	Re	vision		19-Dec-2011	Fred Bloggs	The artifact was changed in this version to fix th	-
Show	15 Trows	per page					l≪ ≪ Displaying page 1	S of 1 ► ►

This feature allows you to display the list of any changes in the source code repository that were the result of implementing the functionality described in the task. Clicking on the revision name takes you to the revision details page which is described in more detail in the "Source Code" section of this guide.

You can perform the following actions:

- Refresh updates the list of revisions from the server, useful if other people are adding revisions connected to this task at the same time.
- > Apply Filter Applies the entries in the filter boxes to the list of revisions.
- > Clear Filters Clears the current filter, so that all revisions for the current task are shown.

9. Resource Tracking

This section outlines how you can use the Resource Tracking features of SpiraPlan® and SpiraTeam® to view the total workload for each of the project personnel resources assigned to a specific project. This allows you to verify that the work is evenly distributed amongst the project members and that no individual resource is overloaded.

When you click on the Tracking > Resources link on the global navigation bar, you will initially be taken to the project resources list screen illustrated below:

spiraTeam									
\sim	My P	age F	Project Ho	me Planning	Testing Trac	king Reporting			
icidents <u>Tasks</u> Reso	arces Source Code								Role: Manag
Refresh Y Filter									
isplaying the resource usag	e for the current project	or selected	release:			D	isplay data for: 1.0.0.0-1	Library System Release 1	•
✓ Resource Name Δ▼	Role ▲▼	Allocatio	n	Available Effort A V	Task Effort ▲▼	Incident Effort A V	Total Effort ▲▼	Remaining Effort A V	ID AV
	- Any - 🔻	- Any -							US
E A Fred Bloggs	Manager		10	80.0h	54.0h	0.0h	54.0h	26.0h	US00000
Joe P Smith	Observer			80.0h	40.0h	0.0h	40.0h	40.0h	US00000
System Administrat	or Project Owner			80.0h	0.0h	0.0h	0.0h	80.0h	US0000

This screen lists all the personnel (project resources) that belong to the current project together with the total value of the projected effort of all the work assigned to them, the available effort based on the length of the current release/iteration, and the remaining effort (the difference between the previous two values). The effort is shown for tasks and incidents as well as a total of the two together. You can display the workload for the project as a whole, for a specific release (including all child iterations) or for a specific iteration.

There is a colored progress bar column called "Allocation" that graphically illustrates the % of the person's available effort that has been scheduled. If a person is over-scheduled, this bar will turn red. In addition, if any project resources have been assigned more work that they have time to complete during the length of the release/iteration, the background color of the remaining effort value will be also be colored in red, indicating that you need to offload some of the work to other project resources.

Clicking on a resource name will take you to the Resource Details page.

9.1 Resource Details

The resource details page will show you what a resource has been assigned, and time values for the items. A small table on the left will show current configured values for the project for # of hours per workday, # of days per week, and how many non-work hours per month there are.

Resource Details	:				
Name:	System Administrate	or	Current Project	Planning Setti	ngs
E-Mail:	administrator@myco	ompany.com	Hours / Day:		8
Department:			Days / Week:		5
Project Role:	Project Owner		Non-Work Hours	/ Month:	0
Reqs & Tasks	Incidents *	Test Cases *	Test Sets		
✓ Ø Requirement □ □ □ Show 15 ▼	- Ar	ortance Progre		Est. Effor	t

Tabs along the bottom will show assigned requirements and tasks, incidents, test cases and test sets. The views for each item are a subset of available columns, to show progress and completion information for all items listed. Clicking on an artifact's name will take you to the artifact details page:

9.1.1. Reqs & Tasks

This tab displays the list of requirements and child tasks that are assigned to the current resource:

	Reqs	a & Tasks ≭	Incidents *	Test Cases *	Test Sets	*							
~	U	Requiremen	t/Task Name		Importance		Progress		Owner	Est. Effort	Act. Effort	Proj. Effort	Edit
					Any	•	Any	•	Any 🔻 🔻				► Filter
	1	⊕ 🛍 Ability	to delete existing bool	ks in the system	1 - Critical				Fred Bloggs	16.0h	15.2h	16.0h	► Edit
	1	⊕ 🛗 Ability	to completely erase al	I books stored in th	1 - Critical				Fred Bloggs	10.0h	9.5h	9.5h	► Edit
	1	🗆 🛍 Ability	to create different edit	ions	1 - Critical				Fred Bloggs	16.0h	10.3h	17.8h	► Edit
		Develo	p new edition entry scre	en	1 - Critical				Fred Bloggs	8.0h	7.0h	9.0h	► Edit
		Create	edition object insert me	ethod	1 - Critical				Fred Bloggs	5.0h	3.3h	5.8h	► Edit
		Mrite	edition object insert que	ries	1 - Critical				Fred Bloggs	3.0h		3.0h	► Edit

9.1.2. Incidents

This tab displays the list of incidents that are assigned to the current resource:

	Reqs & Tasks *	Incidents *	Test Case	s *	Те	st Sets *					
ID /	Name			Date Ope	ened	Status	Priority	Severity	% Complete	Est. Effort (hrs)	Projected Effort (hrs)
×	Cannot add a new	v book to the system	[IN:000007]	4-Nov-200	3	Assigned	1 - Critical	3 - Medium	0%	0.3	0.3
×	Ability to associate	te multiple authors	[IN:000021]	17-Nov-20	03	Assigned	1 - Critical	1 - Critical	25%	0.3	0.4
×	Test System Limi	tation	[IN:000046]	4-Dec-200)3	Assigned	1 - Critical		75%	0.7	0.8
×	Test Training Item		[IN:000040]	3-Dec-200)3	Assigned	1 - Critical	2 - High	25%	0.5	0.5
×	Editing the date of	n a book is clunky	[IN:000008]	4-Nov-200	3	Assigned	2 - High	4 - Low	50%	0.4	0.4
×	Test Training Item		[IN:000041]	3-Dec-200)3	Assigned	2 - High		50%	0.7	0.7
×	Test Change Req	uest	[IN:000053]	7-Dec-200)3	Assigned	3 - Medium		25%	0.5	0.5
×	Ability to import d	ata from excel	[IN:000023]	25-Nov-20	03	Assigned	3 - Medium	2 - High	75%	0.5	0.5
×	Test System Limi	tation	[IN:000048]	4-Dec-200)3	Assigned	3 - Medium	3 - Medium	90%	1.3	1.5
×	Sample Risk 3		[IN:000061]	10-Dec-20	003	Assigned	4 - Low	4 - Low	90%	0.7	0.9

9.1.3. Test Cases

This tab displays the list of test cases that are assigned to the current resource:

R	leqs & Tasks *	Incidents *	Test Cases *	Test Sets *			
ID / I	Name			Last Executed	Last Execution Status	Priority	Estimated Duration
F	Ability to create	new book	[TC:000002]	1-Dec-2003	Passed	1 - Critical	0.2h
Ð	Ability to edit ex	isting book	[TC:000003]	1-Dec-2003	Caution	1 - Critical	0.1h

9.1.4. Test Sets

This tab displays the list of test sets that are assigned to the current resource:

	Reqs & Tasks *	Incidents *	Test Cases	* 1	est Sets *				
ID /	Name			Status	Planned Date	Execution Status	Last Executed	Est. Duration	Act. Duration
	Testing New Fund	ctionality	[TX:000005]	In Progress	10-Feb-2007		28-Sep-2010	0.3h	0.8h
	Exploratory Testi	ng	[TX:000006]	Deferred				0.0h	0.0h
	Regression Testi	ng for Windows XP	[TX:000003]	Completed				0.3h	0.0h

10. Document Management

This section outlines the document management features of SpiraTeam® that can be used to upload, manage and share documents between the different members of the project. This module includes support for uploading files and URLs, versioning of documents, the ability to organize into folders and categorize and search using meta-tags.

In addition the document management features are fully integrated into the rest of the system, so that documents attached to other artifacts (e.g. requirements, test cases, etc.) are automatically connected to the project documentation repository.

10.1. Document List

When you click on the Project Home > Documents link on the global navigation bar, you will initially be taken to the project documents list screen illustrated below:

spiraTeam	Welcome, Fred Bloggs <u>My Profile</u> <u>Administration</u> My Page Project Home Planning 1	Log Out Library Info	rmation System				Help?
Project Group Home Project Home D	ocuments	eating Traci	ting Reporting			F	tole: Manager
Document Folders Refresh	Add Document 🗱 Delete 🗞 Refresh 👌	Export Y Filter	Items in Current Folder	V			
E Prot Folder	✓ Document Name ▲▼	Type ▲▼	Size ▲▼	Edited By ▲▼	Edited On ▲∇	Author ▲▼	ID ▲▼
🖻 🗁 Design Documents		- Any 🔻		- Any 🔻		Any 🔻	DC
<u>Misc Documents</u>	Sequence Diagram for Book Mgt.pdf	UML Diagram	35 KB	Joe P Smith	10-May-2006	Fred Bloggs	DC000007
E Creen Captures	Graphical Design Mockups.psd	Screen Layout	1009 KB	Joe P Smith	1-May-2006	Joe P Smith	DC000013
Specifications <u>Test Results</u>	Use Case Diagram.vsd	UML Diagram	43 KB	Fred Bloggs	23-Apr-2006	Fred Bloggs	DC000012
	Author Management Screen Wireframe.vsd	Screen Layout	533 KB	Fred Bloggs	2-Apr-2006	Joe P Smith	DC000008
	Book Management Screen Wireframe.ai	Screen Layout	392 KB	Fred Bloggs	1-Apr-2006	Joe P Smith	DC000011
	Show 15 V rows per page					Displaying page 1	Sof1⊳⊨
Tag Cloud And the rest of the second book management error functional specification libraries stack trace testing user interface wireframe							

This screen consists of three main sections:

- The top left-hand pane displays a hierarchical list of the various folders that have been setup for the current project. Clicking on the [+] expand icon will expand the child folders and clicking on the name of the folder will display the list of documents in the folder in the main pane to the right.
- The main right-hand pane displays a list of all the documents contained within the currently selected folder. This list can be filtered and sorted, and you can choose how many rows of documents to display on the page at one time.
- The bottom left-hand pane contains the "Tag Cloud". This is a list of all the tag names associated with documents in the project. The size of the font is proportional to the number of documents associated with the tag. Clicking on a tag name will automatically filter the list of documents to find items that contain the selected tag.

The main toolbar contains icons for all the operations that can be performed on the document list. You can add documents to the current folder, delete existing documents from the project, refresh the list of documents, export documents to another project, apply a filter, and clear the current filter. In addition there is the option to either display just the documents in the current folder or all documents in all folders. The latter is useful when you want to search for a specific document by keyword or tag name.

10.1.1. Add New Document

To add a new document to the project, you just need to click on the <Add Document> icon in the toolbar, and the 'Add New Document' dialog box will be displayed:

\mathbf{X}	\boxtimes
Add New Document	Add New Document
Type* ● File ◎ URL ◎ Screenshot	Type* ◎ File ◎ URL ● Screenshot
Filename*: Browse_	Screenshot*:
Description:	
Document Type*: Functional Specification	
Version: 1.0	> Paste image from clipboard
Tags:	Description:
> Upload Cancel	
	Document Type*: Functional Specification
	Version: 1.0
	Tags:
	> <u>Upload</u> <u>Cancel</u>

There are three different types of item that can be uploaded into the document repository:

- To upload a file, choose "File" as the type and then click the Browse button and select the file from your local computer, optionally enter a detailed description then click the <Upload> button. The document will be copied from your computer and added to the current folder.
- To add a web-link (URL) to the current folder, you need to choose "URL" as the type and then enter the fully qualified URL (e.g. <u>http://mywebsite.com?Document=1</u>), an optional description and then click the <Upload> button to add the web-link.
- To add a screenshot to the current folder, you need to choose "Screenshot" as the type and then copy the image to your computer's clipboard (e.g. on Windows computers, the PRINT SCREEN button captures the current page and adds to the clipboard). Once the image is in the clipboard, click on the "Paste image from clipboard" hyperlink and the item will appear in the preview window. You can then fill in the other fields and click <Upload> to upload the image.

10.1.2. View Document Information

When you hover the mouse pointer over any of the documents displayed in the document list, an information panel will be displayed that contains the name, description, version, document type and meta-tags of the document:

spiraTeam	Welcome, Fred Bloggs My Profile ;			rmation System 🔻					Help?
Project Group Home Project Home D	My Page Project Home Pla ocuments	anning Tes	ting Trac	king Reporting				F	Role: Manage
Document Folders <u>Refresh</u>	슈 Add Document 🗱 Delete 턪	हे Refresh 🛛 🛃	Export Y Filter	Items in Current Folder	T				
E Proot Folder	✓ Document Name ▲▼		Type ▲▼	Size ▲▼	Edited	By▲▼	Edited On ▲▼	Author A V	ID ▲▼
🗆 🗁 Design Documents			Any 🔻 🔻		- Any -	•		- Any - 🔻	DC
Misc Documents	Sequence Diagram for B			25.1/0		mith	10-May-2006	Fred Bloggs	DC00000
Screen Captures	Graphical Design Mockur Se	equence Diagrar	n for Book Mgt.	odf		nith	1-May-2006	Joe P Smith	DC00001
Specifications Test Results	Use Case Diagram.vsd	ilename:		for Deals Material Bit		ggs	23-Apr-2006	Fred Bloggs	DC00001
	C C Author Management Cor		<u>Sequence Diagran</u> UML Diagram	for Book Mgt.pdf 🖻		ggs	2-Apr-2006	Joe P Smith	DC00000
			Acrobat.png 📆			ggs	1-Apr-2006	Joe P Smith	DC00001
				in UML format that provide rrounding the book managa e			H 4	Displaying page 1	Sof 1 ⊫
ag Cloud				book management					
hook		0	Fred Bloggs (5/3/2						
				2006 12:00:00 AM)					
management	ID):	[DC:000007]	,					
specification libraries				> <u>View Details</u>	<u>Cancel</u>				
stack trace testing user interface wireframe									

You can click on the document URL to actually open the document itself in a new window, click on the meta-tag links to find related documents that contain the same meta-tag, or click on "View Details" to see more information regarding the document, including an ability to edit its meta-information and see the different versions of the document.

10.2. Document Details

When you click on an item in the document list described above, you are taken to the document details page illustrated below:

spiraTeam	Welcome, Fred Bloggs Library	Information System	Administration Log Ou	ıt Search 🌖	
spirarean	My Page Project He	ome Planning Testing	Tracking	Reporting	
Project Group Home Project Home	Documents > Document Deta	ils			
<< Back to Document List	🖹 Save 🗱 Delete	Refresh			
Display: Current Filter	Document: Sequen	ce Diagram for Book Mgt.pdf (DC000007)		
Design Documents Sequence Diagram for Book Mgt	Filename:*	Sequence Diagram for Book Mgt.pd	f		
Graphical Design Mockups.psd	Description:	Font V Size V	BIU≣≣≣	■ 毎日健健 ℡& -	- 🍩 🔝 🗔 <> 🗖
텔 Use Case Diagram.vsd 텔 Author Management Screen Wirefra 宣 Book Management Screen Wirefran		Sequence diagram in UML format that case	t provides additional deta	ail surrounding the book mana	igament use-case / test
	Document Folder*:	Design Documents	▼ Creator	*: Fred Bloggs	V
	Document Type*:	UML Diagram	Edited I	By*: Joe P Smith	•
	Tags:	sequence diagram, book managen	ent Creation	Date: 5/3/2006 12:00:00 Al	М
	File Type (Size):	Acrobat 🔁 (35 KB)	Last Edi	ited: 5/10/2006 12:00:00 A	AM
			Current Version:	1.2	
	Versions * A	Associations #			

This page is made up of three areas; the left pane is for navigation, the upper part of the main pane contains the details of the document, and the bottom part of the right pane contains the list of document versions and the list of artifacts that the document is associated with.

The navigation pane consists of a link that will take you back to the project document list, as well as a list of other documents in the current folder. This latter list is useful as a navigation shortcut; you can quickly

view the detailed information of all the peer documents by clicking on the navigation links without having to first return to the main document list page.

The top part of the main pane allows you to view and/or edit the details of the particular document. You can edit the various fields (name, description, etc.) and once you are satisfied with them, simply click the <Save> button at the top of the page to commit the changes. In addition you can delete the current document by choosing <Delete>, or discard any changes made by clicking <Refresh>.

The lower part of the main pane can be switched between two different views by clicking the appropriate tab. Initially the pane will be in "Versions" mode, but it can be switched to "Association" as well. The functionality in each of these two views is described below:

10.2.1. Edit Document Versions

This view displays the list of different versions that exist for the current document. When you initially create a new document there will be only a single version (e.g. v1.0), however as revisions are made to the document, rather than having to create a whole new document, you can just upload the new revision as a new version (e.g. v1.1) and it will be added to the list of versions.

Each version in the list is displayed with its name, a description of what changed in the version, the version number assigned to the revision, the file-size, who uploaded the new version and a link to actually open the new version:

Ve	rsions *	Associations *					
Active	Version	Version Comme	nts	Size	Uploaded By	Uploaded On 🔻	Operations
~	Version 1.3		n in UML format that provides additional the book managament use-case / test	35 KB	Fred Bloggs	10-May-2006	
	Version 1.		n in UML format that provides additional the book managament use-case / test	30 KB	Fred Bloggs	5-May-2006	> <u>Make Active</u> <u>Delete</u>
	Version 1.		n in UML format that provides additional the book managament use-case / test	28 KB	Joe P Smith	3-May-2006	> <u>Make Active</u> <u>Delete</u>
Upload Filena	New Version		owse				
Descri				: (≣ T ₂ -	🍇 — ce 🖪 🛙	• • 🖉	
Versio	on:*	Ma	ke this the active version				
						► Upload	

On this page, you have the option to delete an existing version, make a different version the active one (the one that users see when they view the document list and click on the link) and upload a new revision. If you upload a new version, you need to provide a description of the changes made, a new version number and whether the new version should be made the active one. *Note: If the original document was a file (instead of a URL) then all revisions will need to be files, similarly if the original document was a URL, all revisions will need to be URLs.*

10.2.2. Edit Document Associations

This view displays a list of the artifacts in the current project that are associated with the current document. If you originally uploaded the document as an attachment to a requirement, test case, etc. then an initial association will be already listed, otherwise it will be empty.

Versions *	Associations *				
Date	Artifact Name	Created By	Artifact Type	Artifact #	Operations
1-Dec-2003	Ability to create new book2	Fred Bloggs	Test Case	TC000002	> Delete
Add New Associa Please choose the a	ation rtifact that you want to add an association to:				
Artifact Type:*	Requirement				
Artifact ID:*					
	► Add				

From this screen you can either delete an existing artifact association or add a new association from the current document to a pre-existing artifact in the system. To add the association, you just need to select the type of artifact being associated (requirement, test case, incident, etc.) and the numeric ID of the artifact.

For example to add an association to Requirement RQ00005 you would choose Artifact Type = Requirement and Artifact ID = 5.

11. Reports Center

This section describes the reporting features of SpiraTeam®, including an overview of each of the report types that are available. When you click on the "Reports" tab on the global navigation bar, you will initially be taken to the reports home page illustrated below:



This page consists of three main areas:

- The top left hand pane displays a list of any reports that have either been saved by the currently logged in user, or those reports created by other members of the project, that have been marked (by that user) as 'shareable'.
- The bottom left-hand main pane displays a list of the printable reports available in the system, categorized by the artifact they primarily relate to (requirements, test cases, incidents and

releases). Clicking on any of the report hyperlinks will take you to the configuration page for the report in question (see section 11.1 below for details).

The right-hand pane is a dashboard that contains the set of graph widgets configured by the current user. By default the dashboard will display: the Incident Progress Rate, Test Run Progress Rate, Requirement Summary, Test Case Summary, Incident Aging and Task Burndown.

In addition to the graphs displayed by default, you can click on the "Add Items" hyperlink to add additional graphs to the reporting dashboard:

Add/Remove Items Close
Choose which items you'd like to add:
Closed Widgets (0) Available Widgets (11)
Available Widgets
Incident Date Range Graphs
Testing Date Range Graphs
Requirement Summary Graph
Test Case Summary Graph
Test Run Summary Graph
Test Set Summary Graph
Task Summary Graph
Incident Summary Graph
Requirement Graphs
Incident Graphs
Task Graphs
Add to: Side Bar 🕒 Add Close

Each of the graphs is described in more detail in sections 11.7 – 11.9.

11.1. Reports Configuration

The configuration page for each report differs slightly, but the general format is illustrated below:

Welcome, Fred B	oggs My Profile Administration Log Out Ubrary Information System 🔻
My Page Pr	pject Home Planning Testing Tracking Reporting
etailed Report	Role: Man
Requirements Deta	led Penort
Please choose from the v You can filter the results	arious options below to specify how you would like this report to appear. isplayed by various parameters as well as choose which elements of the report are displayed.
Report Format	
Format:	💿 HTML 🔊
	O MS-Word 2003+ 🕙
	O XML 🖻
Report Elements	
Requirements Details:	Artifact Change History
	Associated Tasks
	Linked Incidents
	Linked Requirements
	List of Attached Documents
	Test Case Coverage
Requirements Details	- Standard Field Filters
Author:	- Al V
Importance:	- Al 🔻
Owner:	- Al - 🔍
Status:	- Al 🔻
Created On:	
Last Modified:	
Requirement #:	
Task Progress:	- Al V
Test Coverage:	- Al V
Requirement Name:	
Actual Effort:	
Plan Effort:	
Task Effort:	
Release:	- Al V
Requirements Details	- Custom Property Filters
URL:	
Difficulty:	- Al V
Requirement Type:	- Al V
	port for future use, please give it a name below before clicking the [Create Report] button:
Report Name:	
	I would like to share this report with other members of the project
	Create Report Scancel

You can configure the reports in the following ways:

- Report Format This allows you to specify the display format of the report. Depending on the specific report, they can be displayed as a web-page (HTML), downloaded as a Microsoft Word document, downloaded as a Microsoft Excel spreadsheet or downloaded as a Microsoft Project file. In addition there is a raw-XML format that allows you to export the underlying report data into any external reporting system that supports XML import.
- Report Elements This allows you to determine which types of information to include in the report. This varies by report type, but includes the dependent items related to the artifact being reported on (attachments, test steps, coverage, history, etc.)
- Standard Field Filters This allows you to constrain the range of data being reported on, based on the various fields associated with the artifact in question. These filters are typically selections from multi-valued-dropdown lists and date-ranges.
- Custom Property Filters This allows you to constrain the range of data being reported on, based on the custom fields associated with the artifact by your project administrator. These filters can be either freetext or drop-down lists.
- Sort Options This option is only available for the non-hierarchical data reports (i.e. for test runs, incidents and tasks only) and allows you to specify the sort order of the results returned in the report. For the hierarchical-data based reports the sort order is always the order of the hierarchy.

Report Name – If you would like to save the report configuration so that you can quickly re-run it at a later date, you just need to enter a name for the report and indicate (by selecting the checkbox or not) whether you want this report to be private or shared by all members of the project.

Once you have selected the format, elements and filters, clicking the <Create Report> button launches the report in a new window. Each of the reports is described in sections 11.2 – 11.6 below:

11.2. Requirement Reports

11.2.1. Requirements Summary Report

This report displays all of the requirements defined for the current project in the order they appear in the requirements list. The requirement's details and coverage status are displayed in a summary list form:

	_{Report} Jirements S	ummary I	Repor	t											
is rep	ort displays all of the	e requirements o	defined for	the current p	roject in t	he order	they appear in t	he requirements	list. The require	ment's details a	and coverag	e status are dis	played in a s	summary list f	orm.
ample	ect 1: Librar application that allo	-			d lending	records f	or a typical brar	ich library							
Req #	Name	Description	Priority	Status	Author	Owner	Creation Date	Test Coverage		Last Modified	Release #	Planned Effort	Task Effort	Actual Effort	URL
1	Functional System Requirements			In Progress	Fred Bloggs		01-Dec-2003	0 Covering, 0 Failed, 0 Passed, 0 Blocked, 0 Caution	42 Tasks; 60% On Schedule, 6% Running Late, 4% Starting Late, 29% Not Started	01-Dec-2003		145 hours 0 mins	190 hours 0 mins	188 hours 40 mins	
2	Online Library Management System			In Progress	Fred Bloggs		01-Dec-2003	0 Covering, 0 Failed, 0 Passed, 0 Blocked, 0 Caution	42 Tasks; 60% On Schedule, 6% Running Late, 4% Starting Late, 29% Not Started	01-Dec-2003		145 hours 0 mins	190 hours 0 mins	188 hours 40 mins	

11.2.2. Requirements Detailed Report

This printable report displays all of the requirements defined for the current project in the order they appear in the requirements list. For each individual requirement, the name, priority, author, status and coverage status are displayed, along with tables containing the list of covering test cases, linked incidents/requirements, associated tasks, attached documents, and the change history:

Reg #4 - Abi	lity to add new books to the system								
	d new books into the system, complete with ISBN, publish	her and other re	elated information						
Priority:	1 - Critical			Status:	Completed				
Author:	Fred Bloggs			Creation Date:	01-Dec-2003				
Coverage:	3 Covering, 1 Failed, 1 Passed 0 Blocked 0 Ca	aution		Last Modified:	01-Dec-2003				
Owner:	Joe P Smith			Planned Effort:	15 hours 0 mins				
Release #:	1.0.0.0			Task Est. Effort:	16 hours 0 mins				
				Task Actual Effo	rt: 15 hours 30 mins				
URL:	http://www.libraries.org								
Difficulty:	Moderate								
Requirement	Туре:								
Test Coverage:	<u>i</u>								
Test #	Test # Name				Est. Duration		Last Execution Date		
TC2	Ability to create new book		F	ailed	0 hours 10 mins	04-Dec	-2003		
TC8	Book management		F	assed	0 hours 4 mins	01-Dec	-2003		
TC13	Adding new book and author to library		1	lot Run					
Linked Require	amonte								
Linked Require	smenta								
Name			eated By	Comment			Date	Req Id	
Ability to dele	ete existing books in the system	Fi	red Bloggs	These two requ	uirements are related		12-Mar-2004	RQ6	
Associated Inc	idents								
Name		Created B	y Co	omment			Date	Inc Id	
Cannot instal	I system on Oracle 9i	Fred Blog	gs T	his bug affects the r	equirement		14-Mar-2004	IN5	
Cannot add a	new book to the system	Joe P Smi	ith T	est Run: Ability to c	reate new book		04-Nov-2003	IN7	
Associated Tas	ive.								
Haaverateu Taa	ma.								

11.2.3. Requirements Plan

This report displays a complete work breakdown structure of the project from a requirements perspective, including all requirements and tasks organized by schedule:

1310	port displays a complete work breakdown structure o	of the project, inc	luding all requ	iirements an	d tasks organ	ized by sche	dule.					
roj	ect 1: Library Information Syst	em										
ample	e application that allows users to manage books, aut	hors and lending	records for a	typical bran	ch library							
ID #	Name	Туре	Status	Priority	Owner	Start Date	End Date	Release #	% Complete	Plan Effort	Est. Effort	Actual Effor
1	Functional System Requirements	Requirement	In Progress							145 hours 0 mins	190 hours 0 mins	188 hours 4 mins
2	Online Library Management System	Requirement	In Progress						145 hours mins	145 hours 0 mins	190 hours 0 mins	188 hours 40 mins
3	Book Management	Requirement	Completed	1 - Critical						90 hours 0 mins	96 hours 0 mins	95 hours 0 mins
4	Ability to add new books to the system	Requirement	Completed	1 - Critical	Joe P Smith			1.0.0.0		15 hours 0 mins	16 hours 0 mins	15 hours 30 mins
1	Develop new book entry screen	Task	Completed	1 - Critical	Fred Bloggs	01-Mar-2004	02-Mar-2004	1.0.0.00001	100 %		8 hours 0 mins	7 hours 20 m
2	Create book object insert method	Task	Completed	1 - Critical	Fred Bloggs	01-Mar-2004	02-Mar-2004	1.0.0.00001	100 %		5 hours 0 mins	5 hours 20 mi
3	Write book object insert queries	Task	Completed	1 - Critical	Fred Bloggs	01-Mar-2004	02-Mar-2004	1.0.0.00001	100 %		3 hours 0 mins	2 hours 50 mi
5	Ability to edit existing books in the system	Requirement	Completed	1 - Critical	Joe P Smith			1.0.0.0		15 hours 0 mins	16 hours 0 mins	16 hours 50 mins
4	Develop edit book details screen	Task	Completed	1 - Critical	Fred Bloggs	03-Mar-2004	04-Mar-2004	1.0.0.00001	100 %		8 hours 0 mins	7 hours 20 mi
5	Create book object update method	Task	Completed	1 - Critical	Joe P Smith	03-Mar-2004	04-Mar-2004	1.0.0.00001	100 %		5 hours 0 mins	6 hours 0 min
6	Write book object update queries	Task	Completed	1 - Critical	Joe P Smith	03-Mar-2004	04-Mar-2004	1.0.0.00001	100 %		3 hours 0 mins	3 hours 30 mi
6	Ability to delete existing books in the system	Requirement	Completed	1 - Critical	Fred Bloggs			1.0.0.0		14 hours 0 mins	16 hours 0 mins	15 hours 10 mins

11.2.4. Requirements Traceability Matrix

This report displays a matrix of the requirements in the system with their list of covering test cases and associated, mapped requirements:

Projec	t 1: Library Information System					
ample ap	plication that allows users to manage books, authors and lending records for a typical	al branch library				
Require	ments Forward Traceability					
nis sectio	n displays a list of all the requirements with the associated test cases/requirements.					
Req #	Name	Importance	Status	Release #	Test Traceability	Requirements Traceability
RQ1	Functional System Requirements		In Progress			
RQ2	Online Library Management System		In Progress			
RQ3	Book Management	1 - Critical	Completed			
RQ4	Ability to add new books to the system	1 - Critical	Completed	1.0.0.0	TC2, TC8, TC13	RQ6
RQ5	Ability to edit existing books in the system	1 - Critical	Completed	1.0.0.0	TC3, TC8	RQ7
RQ6	Ability to delete existing books in the system	1 - Critical	Completed	1.0.0.0	TC8, TC12	RQ4
RQ7	Ability to associate books with different subjects	1 - Critical	Completed	1.1.0.0	TC4, TC8	RQ5
RQ8	Ability to associate books with different authors	1 - Critical	Completed	1.1.0.0	TC6, TC13	
RQ9	Ability to associate books with different editions	1 - Critical	Completed	1.1.0.0	TC4, TC8, TC12	
RQ10	Ability to completely erase all books stored in the system with one click	1 - Critical	Completed	1.2.0.0	TC4, TC8, TC12	
RQ11	Edition Management	1 - Critical	In Progress			
RQ12	Ability to create different editions	1 - Critical	In Progress	1.0.0.0		

11.3. Test Case Reports

11.3.1. Test Case Summary Report

This report displays all of the test cases defined for the current project in the order they appear in the test case list. The test case's details and execution status are displayed in a summary grid form with the test steps optionally displayed:

[est	# Name	Description	Priority	Test Step	Test Step Description	Test Step Expected Result	Test Step Sample Data	Status	Author	Owner	Est. Duration	Created On	Last Modifie
1	Functional Tests							N/A	Fred Bloggs	Fred Bloggs		01-Dec- 2003	13-Oct-2009 15:07:47
2	Ability to create new book	Tests that the user can create a new book in the system	1 - Critical					Failed	Fred Bloggs	Fred Bloggs	10	01-Dec- 2003	13-Oct-2009 15:07:47
				1	Call Login to Application			Not Run					
				2	User clicks link to create book	User taken to first screen in wizard		Not Run					
				3	User enters books name and author, then clicks Next	User taken to next screen in wizard	Macbeth, William Shakespeare	Not Run					
				4	User chooses book's genre and sub-genre from list	User sees screen displaying all entered information	Play, Tragedy	Not Run					
				5	User clicks submit button	Confirmation screen is displayed		Not Run					

11.3.2. Test Case Detailed Report

This report displays all of the test cases defined for the current project in the order they appear in the test case list. The test case's details and execution status are displayed, along with sub-tables containing the list of test steps, test runs, attached documents, the change history, and a list of any associated open incidents:

		ate a new book in the system				4.0.2				
Status: Author:		Failed		Priority: 1 - Critical						
		Fred Bloggs		Creation Date: 01-Dec-2003						
Owner:		Fred Bloggs		L	ast Execution:	04-Dec-2003				
URL:		http://www.libraryreferences.org Functional Test								
Test Ty	pe:	Functional Test								
Step	Description			Expected Result	Sample Da	Sample Data				
1	Call Login to Appl	lication								Not Run
2				User taken to first screen	ser taken to first screen in wizard					
3	User enters book	s name and author, then clicks Next	User taken to next screen	Macbeth, V	Macbeth, William Shakespeare					
4	User chooses boo	ok's genre and sub-genre from list	User sees screen display	Play, Trage	Play, Tragedy					
5	User clicks subm	it button		Confirmation screen is dis	splayed					Not Run
Run #	Tester	Test Set	Release		Version	Status	Est. Duration	Actual Du	iration	Execution Date
TR18	Fred Bloggs		Iteration	003	1.1.0.0.0003	Failed	2 mins	70 mins		04-Dec-2003
TR15	Joe P Smith		Iteration	002	1.1.0.0.0002	Passed	2 mins	70 mins		03-Dec-2003
TR13	Fred Bloggs		Iteration	001	1.1.0.0.0001	Passed	2 mins	70 mins		02-Dec-2003
TR12	Fred Bloggs		Library S	ystem Release 1	1.0.0.0	Failed	10 mins	70 mins		01-Dec-2003
TR2	Fred Bloggs	Testing Cycle for Release 1.1	Library S	ystem Release 1 SP1	1.0.1.0	Passed	10 mins	90 mins		01-Dec-2003
TR1	Joe P Smith	Testing Cycle for Release 1.0	Library S	ystem Release 1	ease 1 1.0.0.0 Failed 10 mi			mins 75 mins		
lequire	ments Coverage:									
Reg #	Name	e				State	us		Priority	
noq "		y to add new books to the system		Completed 1 - Critic				A Original		

11.3.3. Test Set Summary Report

This report displays all of the test sets defined for the current project in the order they appear in the test set list. The test set's details and execution status are displayed in a summary list form:

				sument pro	jeet in th	e older ti	ley appear i	n the test set list	. The test sets	details and exe	cution sta	tus ale ui:	splayeu in a	a summary	not tonn.	
rojec	t 1: Librar	y Inform	ation S	ystem	1											
imple app	lication that allow	ws users to ma	anage books	s, authors	and lendi	ng record	ds for a typic	al branch library								
Test Set	#Name	Description	Status	Release	Creator	Owner	Created O	n Planned Date	Last Modified	Last Executed	# Passed	# Failed	# Caution	# Blocked	# Not Rur	n Note
TX8	Functional Test Sets		In Progress		Fred Bloggs		02-Jan- 2007	05-Feb-2007	13-Oct-2009	-	0	0	0	0	0	
TX1	Testing Cycle for Release 1.0	This tests the functionality introduced in release 1.0 of the library system	In Progress	1.0.0.0	Fred Bloggs	Joe P Smith	02-Jan- 2007	05-Feb-2007	13-Oct-2009	01-Dec-2003	1	2	0	0	4	
TX2	Testing Cycle for Release 1.1	This tests the functionality introduced in release 2.0 of the library system	Not Started	1.1.0.0	Fred Bloggs	Joe P Smith	03-Jan- 2007	07-Feb-2007	13-Oct-2009	01-Dec-2003	3	0	0	0	6	

11.3.4. Test Set Detailed Report

This report displays all of the test sets defined for the current project in the order they appear in the test set list. The test set's details and execution status are displayed, along with sub-tables containing the list of test cases, test runs, attached documents, and the change history:

wner: elease:		Oneith		Constant	East Disease		
	Joe P			Creator:	Fred Bloggs		
	1.0.0.	-		Creation Da			
tatus:	In Pro	5		Last Execut		-	
lanned Dat	te: 05-Fe	5-2007		Last Update	d: 13-Oct-200	9	
lotes:							
perating S	system:						
est Cases	5:						
Test #	Name		Р	riority	Est. Duration	Status	Last Execution Date
TC2	Ability to create n	ew book		- Critical	10 mins	Failed	01-Dec-2003
TC3	Ability to edit exis	ting book	1	- Critical	5 mins	Passed	01-Dec-2003
TC4	Ability to create n	ew author	1	- Critical	8 mins	Failed	01-Dec-2003
TC5	Ability to edit exis	sting author	2	2 - High	5 mins	Not Run	
TC6	Ability to reassign	book to different author	2	? - High	8 mins	Not Run	
TC8	Book managemer	nt	2	? - High	4 mins	Not Run	
TC9	Author manageme	ent	2	2 - High	4 mins	Not Run	

11.3.5. Printable Test Scripts

This printable report is useful when you want to be able to conduct the testing activities offline on paper, or when testers need paper copies of the test script in addition to using the online test execution wizard.

In either case, this report simply displays all of the test cases defined for the current project in the order they appear in the test case list together with their detailed test steps and a list of any attached documents.

	t #2 - Ability to create n						
	Steps:						
Ste	p Description		Expected Result	Sample Data	Status	Actual Result	
1	User opens up browser and enters http://www.libraryinformationsystem		The browser loads the login web page	http://www.libraryinformationsystem.com/beta	Passed Failed Blocked Caution		
2	User logs in to application		User taken to main menu screen	Login=librarian, Password=password1	Passed Failed Blocked Caution		
2	User clicks link to create book		User taken to first screen in wizard		Passed Failed Blocked Caution		
3	User enters books name and auth	or, then clicks Next	User taken to next screen in wizard	Macbeth, William Shakespeare	Passed Failed Blocked Caution		
4	User chooses book's genre and su	ib-genre from list	User sees screen displaying all entered information	Play, Tragedy	Passed Failed Blocked Caution		
5	User clicks submit button		Confirmation screen is displayed		Passed Failed Blocked Caution		
ile /	Attachments:						
File	ename	Description				Author	Date Uploa
	guence Diagram for Book Mgt.pdf		IMI format that provides additional	detail surrounding the book managament use-ca	no (tost sasa	Fred Bloggs	03-May-200

11.3.6. Test Run Summary Report

This report displays all of the test runs defined for the current project. The test run's details and execution status are displayed in a summary grid form:

							,	The test run's deta								
•	t 1: Librar plication that allo	•	-		nd lending re	cords for	a typical brand	ch library								
Test Rur	#Name	Test Case	# Release	Test Set	Туре	Tester	Est. Duration	Actual Duration	Start Date	End Date	Status	Runner	Message	Notes	Web Browser	Operating Sys
TR10	Ability to edit existing book	тсз	1.0.0.0		Manual	Fred Bloggs	0 hours 5 mins	0 hours 50 mins	01-Dec- 2003	01-Dec- 2003	Caution					
TR12	Ability to create new book	TC2	1.0.0.0		Automated	Fred Bloggs	0 hours 10 mins	1 hours 10 mins	01-Dec- 2003	01-Dec- 2003	Failed	NUnit	Expected 1 but 2 was found		Opera	Windows 2003
TR13	Ability to create new book	TC2	1.1.0.0.0001		Automated	Fred Bloggs	0 hours 2 mins	1 hours 10 mins	02-Dec- 2003	02-Dec- 2003	Passed	JUnit	Expected 1 but 2 was found			
TR14	Ability to edit existing book	тсз	1.1.0.0.0001		Automated	Fred Bloggs	0 hours 5 mins	1 hours 10 mins	02-Dec- 2003	02-Dec- 2003	Passed	JUnit	Expected 1 but 2 was found			

11.3.7. Test Run Detailed Report

This report displays all of the test runs defined for the current project in date order (most recent first). The test run's details and execution status are displayed, along with sub-tables containing the list of test run steps, and a list of any associated open incidents:

				eate new boo	k							
Tests	s tha	it the user ca	n create a new bo	ok in the system								
Tes	t Ca	ise #:	TC2									
Rel	eas	e #:	1.0.0.0				Status:	Failed				
Tes	ter:		Joe P Smith	1			Execution Date:	01-Dec-2003				
Тур	e:		Manual				Test Set:	Testing Cycle for Release 1.	0			
Est.	Du	ration:	0 hours 10 r	nins			Actual Duration:	1 hours 15 mins				
Not	es:											
We	b Bi	owser:	Internet Exp	lorer								
Оре	erat	ing System:	Windows XF)								
Ste	ep D	escription			Expected Result		Sample Data	ActualResult				Status
1	I	Jser logs in t	application		User taken to main menu se	creen						Passed
2	l	Jser clicks lir	k to create book		User taken to first screen in wizard	I						Passed
3		Jser enters b Vext	ooks name and au	thor, then clicks	User taken to next screen in wizard	n	Macbeth, William Shakespeare	An error page is displayed - "No 473"	such object	or with block v	variable at line	Failed
Acc	00	ated Incid	ante:									
Inc	:#	Туре	Status	Priority	Severity	Name			Owned By		Detected On	
7		Bug	Assigned	1 - Critical	3 - Medium	Canno	ot add a new book to the system		Joe P Smi	th	04-Nov-2003	
File	At	achments	:									
Fil	ena	me		Description						Author	Date Uplo	aded
Er	ror l	.ogging-in Sc	reen-shot.gif	Captured scree	en-shot of the error that was r	aised w	when attempting to log in to the lib	orary application		Fred Bloggs	24-Apr-200	06

11.3.8. Test Case Traceability

This report displays a matrix of the test cases in the system with the list of mapped releases, incidents and test sets:

est Ca	ase Traceability Matrix				
	-				
nis report	displays a matrix of the test cases in the system with the list of mapped releas	es, incidents and test sets.			
est Cas	e Forward Traceability				
his sectior	displays a list of all the test cases with the associated releases, incidents and	d test sets.			
Test #	Name	Priority	Releases	Test Sets	Incidents
TC1	Functional Tests				
TC2	Ability to create new book	1 - Critical	RL1, RL2, RL3, RL4, RL17, RL18, RL19	TX1, TX2	IN7
TC3	Ability to edit existing book	1 - Critical	RL1, RL2, RL3, RL4, RL17, RL18, RL19, RL6	TX1, TX2	
TC4	Ability to create new author	1 - Critical	RL1, RL2, RL3, RL4, RL5, RL18, RL19, RL6	TX1, TX2, TX5	IN2
TC5	Ability to edit existing author	2 - High	RL1, RL2, RL3, RL4, RL5, RL19, RL6	TX1, TX2	
TC6	Ability to reassign book to different author	2 - High	RL1, RL2, RL3, RL4, RL5, RL6	TX1, TX2, TX5	
TC7	Regression Tests				
TC8	Book management	2 - High	RL1, RL2, RL3, RL4, RL5	TX1, TX2, TX3, TX4	
TC9	Author management	2 - High	RL1, RL2, RL3, RL4, RL5, RL6	TX1, TX2, TX3, TX4	
TC10	Scenario Tests				
TC11	Exception Scenario Tests	3 - Medium			
TC12	Person loses book and needs to report loss	3 - Medium	RL4, RL5, RL6	TX2, TX5, TX6	
TC13	Adding new book and author to library	3 - Medium	RL4, RL5, RL6	TX2, TX5, TX6	
TC15	Common Tests				
TC16	Open Up Web Browser				
TC17	Login to Application				
TC18	New Test Case (Ability to add new books to the system)				
TC19	New Test Case (Ability to edit existing books in the system)				
TC20	New Test Case (Ability to delete existing books in the system)				

11.4. Incident Reports

11.4.1. Incident Summary Report

This report displays all of the incidents tracked for the current project. The incident's details are displayed in a summary list form:

		mmary Repo		ment enginet. Th	e incident's data	ile ere die.	deved in a	augusta a lat	form					
nis re	eport displays a	all of the incidents tr	acked for the cu	rrent project. In	e incident's deta	ails are dis	played in a	summary list	torm.					
ro	ject 1: Li	brary Inforn	nation Sys	stem										
ampl	- le application th	hat allows users to r	nanage books, a	uthors and lend	ling records for a	a typical br	anch librar	У						
Inc	#Name	Description	Resolution	Туре	Status	Priority	Couoritu	Detected Pu	Owned Bu	Detected On	Last Madified	Closed On	Detected Release	Peeebood Dale
1	Cannot log into the application	When trying to log into the application with a valid username and password, the system throws a fatal exception		Incident	New	ritority	Sevency	Fred Bloggs	Owned by	01-Nov- 2003	01-Dec-2003		1.0.0.0	1.0.1.0
2	Not able to add new author	When I try and click on the button to add a new author the system simply displays the main screen and does nothing		Incident	New			Joe P Smith		01-Nov- 2003	01-Dec-2003		1.0.0.0	1.0.1.0
3	Clicking on link throws fatal error	When I click on the logout link, instead of logging out, I get an ASP session not valid error		Incident	New			Fred Bloggs		01-Nov- 2003	01-Dec-2003		1.0.1.0	1.0.2.0

11.4.2. Incident Detailed Report

This printable report displays all of the incidents tracked for the current project sorted by incident number. For each individual incident, the name, type, priority, status, opener, owner and close date are displayed, along with tables containing the detailed description and resolutions as well as a tabular list of attached documents, linked requirements/incidents and the change history:

	ary Information	tion System				
Sample application that	allows users to man	age books, authors and lending records fo	r a typical branch library			
nc #1 - Cannot	log into the a	polication				
		valid username and password, the system	n throws a fatal exception			
Type:	Incident		Prior	ity:		
Status:	New		Seve	,		
Opened By:	Fred Bloggs		Oper	ed On: 01-Nov-2003		
Assigned To:			Last	Modified: 01-Dec-2003		
Detected In Release:	1.0.0.0		Close	ed On:		
Resolved In Release:	1.0.1.0		Verif	ied In Release: 1.0.1.0		
Notes:						
Operating System:						
operating system:						
Associations:						
Associations: Artifact Type	Name		Created By	Comment	Date	Artifact Id
Associations:	Sample Test		Fred Bloggs	Comment Test Run: Sample Test	01-Nov-2006	TR 9
Associations: Artifact Type		rreen doesn't sort				
Associations: Artifact Type Test Run	Sample Test The book listing so	reen doesn't sort w users in the system	Fred Bloggs	Test Run: Sample Test	01-Nov-2006	TR 9
Associations: Artifact Type Test Run Incident Requirement	Sample Test The book listing so		Fred Bloggs Joe P Smith	Test Run: Sample Test This incident and bug are related	01-Nov-2006 16-Mar-2004	TR 9 IN 6
Associations: Artifact Type Test Run Incident	Sample Test The book listing so		Fred Bloggs Joe P Smith	Test Run: Sample Test This incident and bug are related	01-Nov-2006 16-Mar-2004	TR 9 IN 6
Associations: Artifact Type Test Run Incident Requirement	Sample Test The book listing so		Fred Bloggs Joe P Smith	Test Run: Sample Test This incident and bug are related	01-Nov-2006 16-Mar-2004	TR 9 IN 6
Associations: Artifact Type Test Run Incident Requirement File Attachments:	Sample Test The book listing so	w users in the system	Fred Bloggs Joe P Smith	Test Run: Sample Test This incident and bug are related	01-Nov-2006 16-Mar-2004 01-Dec-2003	TR 9 IN 6 RQ 26

11.5. Task Reports

11.5.1. Task Summary Report

This report displays all of the tasks tracked for the current project. The task's details are displayed in a summary list form:

Task #	Name	Description	Status	Priority	Owned By	Created On	Last Modified	Release #	Requirement #	Start Date	End Date	% Complete	Est. Effort	Actual Effor
23	Write edition object insert queries		Not Started	1 - Critical	Fred Bloggs	01-Dec- 2003	01-Dec-2003	1.0.0.00003	RQ12	11-Mar- 2004	12-Mar- 2004	0%	3 hours 0 mins	-
24	Develop edit author details screen		Not Started	2 - High	Joe P Smith	01-Dec- 2003	01-Dec-2003	1.0.0.0002	RQ15	07-Mar- 2004	08-Mar- 2004	0%	8 hours 0 mins	
25	Create author object update method		Not Started	2 - High	Joe P Smith	01-Dec- 2003	01-Dec-2003	1.0.0.0.0002	RQ15	07-Mar- 2004	08-Mar- 2004	0%	5 hours 0 mins	
26	Write author object update queries		Not Started	2 - High	Joe P Smith	01-Dec- 2003	01-Dec-2003	1.0.0.0002	RQ15	07-Mar- 2004	08-Mar- 2004	0%	3 hours 0 mins	-
27	Refactor author screen to include delete button		Not Started	2 - High	Fred Bloggs	01-Dec- 2003	01-Dec-2003	1.0.0.0.0003	RQ16	09-Mar- 2004	10-Mar- 2004	0%	6 hours 0 mins	

11.5.2. Task Detailed Report

This report displays all of the tasks tracked for the current project. The task's details are displayed, along with a tabular list of attached documents and the change history:

Task Detailed This report displays all o	•	k's details are displayed, along with a tabular list of attac	hed documents and the change history
Project 1: Lib	rary Information System		
Sample application that	allows users to manage books, authors and lendi	ng records for a typical branch library	
Task #23 - Writ	e edition object insert queries		
Task #23 - Writ Requirement ID:	e edition object insert queries RQ 12	Status:	Not Started
	, ,	Status: Priority:	Not Started 1 - Critical
Requirement ID:	RQ 12		
Requirement ID: Release #:	RQ 12 1.0.0.0003	Priority:	1 - Critical
Requirement ID: Release #: Assigned To:	RQ 12 1.0.0.0.0003 Fred Bloggs	Priority: Created On:	1 - Critical 01-Dec-2003

11.6. Release Reports

11.6.1. Release Summary Report

This report displays all of the releases and iterations defined for the current project in the order they appear in the release/iteration hierarchy. The release's details are displayed in a summary list form:

		mmary Rep		defined fo		ala at in th		ab	s in the set	64	tion biom	abu. Tha as	la ancia dat	eile ere die	deved in a sum	man link form
Proj	ect 1: L	all of the releases ibrary Infoi that allows users t	mation \$	Syste	m					ease/itera	ation nierar	cny. The re	iease's det	alis are dis	played in a sum	mary list form.
				Genera	al						Tes	ting Inform	nation			
Rel #	#Name	Version Number	Description	Creator	Creation Date	Iteration	Active	Start Date	End Date	# Failed	# Passed	# Blocked	# Caution	# Not Run	Task Progress	Planned Eff
1	Library System Release 1	1.0.0.0	This is the initial release of the Library Management System	Fred Bloggs	15-Feb-2004	N	Y	01-Mar- 2004	12-Mar- 2004	2	0	0	1	4	18 Tasks; 50% On Schedule, 12% Running Late, 9% Starting Late, 26% Not Started	216 hours 0 mins
2	Library System Release 1 SP1	1.0.1.0	This service pack fixes identified bugs and a small security vulnerability	Joe P Smith	05-May-2004	N	Y	13-Mar- 2004	30-Mar- 2004	0	3	1	0	3	0 Tasks; 0% On Schedule, 0% Running Late, 0% Starting Late, 0% Not Started	176 hours 0 mins

11.6.2. Release Detailed Report

This report displays all of the releases and iterations defined for the current project in the order they appear in the release/iteration hierarchy. The release's details are displayed, along with sub-tables containing the list of requirements added, mapped test cases, test runs executed, incidents resolved, attached documents, scheduled tasks and the change history:

ersion #:	1.1.0.0	Active:	Y		
Creator:	Fred Bloggs	Creation Date:	15-Oct-2004		
Start Date:	15-Oct-2004	Planned Effort:	168 hours 0 mins		
End Date:	27-Oct-2004	Available Effort:	82 hours 0 mins		
# Resources	3	Task Est. Effort:	86 hours 0 mins		
Non-Working	g Davs: 6	Actual Effort:	85 hours 40 mins		
Notes:					
Operating S	vstem:				
Requireme	nts Added:				
Req #	Name		SI	tatus	Priority
RQ1	Functional System Requirements		In	n Progress	
RQ2	Online Library Management System		In	Progress	
				5	1 - Critical
RQ2	Online Library Management System		C	n Progress	1 - Critical 1 - Critical
RQ2 RQ3	Online Library Management System Book Management		C	n Progress Completed	
RQ2 RQ3 RQ7	Online Library Management System Book Management Ability to associate books with different subjects		0 0 0	n Progress Completed Completed	1 - Critical
RQ2 RQ3 RQ7 RQ8	Online Library Management System Book Management Ability to associate books with different subjects Ability to associate books with different authors		0 0 0 0	n Progress Completed Completed Completed	1 - Critical 1 - Critical
RQ2 RQ3 RQ7 RQ8 RQ9	Online Library Management System Book Management Ability to associate books with different subjects Ability to associate books with different authors Ability to associate books with different editions		C C C C I I I	n Progress Completed Completed Completed Completed	1 - Critical 1 - Critical 1 - Critical
RQ2 RQ3 RQ7 RQ8 RQ9 RQ13	Online Library Management System Book Management Ability to associate books with different subjects Ability to associate books with different authors Ability to associate books with different editions Author Management		C C C C I I I	n Progress Completed Completed Completed Completed n Progress	1 - Critical 1 - Critical 1 - Critical 2 - High
RQ2 RQ3 RQ7 RQ8 RQ9 RQ13 RQ17	Online Library Management System Book Management Ability to associate books with different subjects Ability to associate books with different authors Ability to associate books with different editions Author Management Ability to link authors to their contact information		C C C C I I I	n Progress Completed Completed Completed Completed n Progress	1 - Critical 1 - Critical 1 - Critical 2 - High
RQ2 RQ3 RQ7 RQ8 RQ9 RQ13 RQ17	Online Library Management System Book Management Ability to associate books with different subjects Ability to associate books with different authors Ability to associate books with different editions Author Management Ability to link authors to their contact information		C C C C I I I	n Progress Completed Completed Completed Completed n Progress	1 - Critical 1 - Critical 1 - Critical 2 - High
RQ2 RQ3 RQ7 RQ8 RQ9 RQ13 RQ17	Online Library Management System Book Management Ability to associate books with different subjects Ability to associate books with different authors Ability to associate books with different editions Author Management Ability to link authors to their contact information		C C C C I I I	n Progress Completed Completed Completed Completed n Progress	1 - Critical 1 - Critical 1 - Critical 2 - High 2 - High
RQ2 RQ3 RQ7 RQ8 RQ9 RQ13 RQ17 Mapped Te	Online Library Management System Book Management Ability to associate books with different subjects Ability to associate books with different authors Ability to associate books with different editions Author Management Ability to link authors to their contact information		C C C C C R R	n Progress Completed Completed Completed Completed n Progress Requested	1 - Critical 1 - Critical 1 - Critical 2 - High 2 - High
RQ2 RQ3 RQ7 RQ8 RQ9 RQ13 RQ17 Mapped Te. Test #	Online Library Management System Book Management Ability to associate books with different subjects Ability to associate books with different authors Ability to associate books with different editions Author Management Ability to link authors to their contact information st Cases: Name		C C C I I R Status	n Progress Completed Completed Completed Completed Completed Norpess Requested Last Execution I	1 - Critical 1 - Critical 1 - Critical 2 - High 2 - High

11.6.3. Release Plan Report

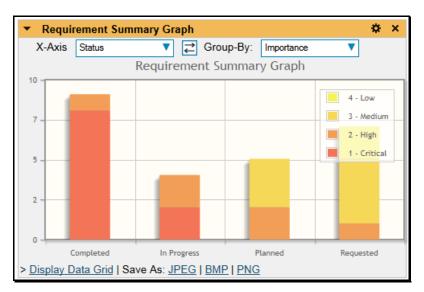
This report displays a complete work breakdown structure of the project from a release perspective, including all releases, iterations, requirements, tasks and incidents organized by schedule:

D #	Name		Туре	Status	Priority	Owner	Start Date	End Date	% Complete	Plan Effort	Est. Effort	Actual Effort
RL1	1.0.0.0	Library System Release 1	Release				01-Mar- 2004	12-Mar- 2004		216 hours 0 mins	94 hours 0 mins	93 hours 30 mins
RQ4		Ability to add new books to the system	Requirement	Completed	1 - Critical	Joe P Smith				15 hours 0 mins	16 hours 0 mins	15 hours 30 min
RQ5		Ability to edit existing books in the system	Requirement	Completed	1 - Critical	Joe P Smith				15 hours 0 mins	16 hours 0 mins	16 hours 50 min
RQ6		Ability to delete existing books in the system	Requirement	Completed	1 - Critical	Fred Bloggs				14 hours 0 mins	16 hours 0 mins	15 hours 10 min
RQ12		Ability to create different editions	Requirement	In Progress	1 - Critical	Fred Bloggs				-	16 hours 0 mins	16 hours 0 mins
RQ15		Ability to edit existing authors in the system	Requirement	Planned	2 - High	Fred Bloggs				15 hours 0 mins	16 hours 0 mins	16 hours 0 mins
RQ16		Ability to delete existing authors in the system	Requirement	in Progress	2 - High	Fred Bloggs				10 hours 0 mins	14 hours 0 mins	14 hours 0 mins
RL2	1.0.1.0	0 - Library System Release 1 SP1	Release				13-Mar- 2004	30-Mar- 2004		176 hours 0 mins		-
IN1		Cannot log into the application	Incident	New					0 %		-	-
IN2		Not able to add new author	Incident	New					0 %		-	-
IN7		Cannot add a new book to the system	Bug	Assigned	1 - Critical	Joe P Smith	06-Nov-2003	-	25 %		0 hours 20 mins	-
RL11	1.0.	1.0.0001 - Iteration 001	Iteration				13-Mar- 2004	20-Mar- 2004		80 hours 0 mins	-	-
RL12	1.0.	1.0.0002 - Iteration 002	Iteration				21-Mar- 2004	24-Mar- 2004		48 hours 0 mins		-
RL13	1.0.	1.0.0003 - Iteration 003	Iteration				25-Mar- 2004	30-Mar- 2004		64 hours 0 mins	-	-
DI 3	400	0 . Library System Release 1 SP2	Release				01-Apr-	30-Apr-		352 hours 0		

11.7. Summary Graphs

11.7.1. Requirements Summary Graph

The requirements summary graph shows how many requirements are currently in a project. The number of requirements is displayed according to the criteria that you specify. You can specify the type of data displayed along the x-axis, and the requirement information which is used to group the data. When you first open the graph you will be asked to pick the field that you would like to display on the x-axis and the field that you would like to group the data by. Once you have chosen the appropriate fields the graph will be displayed:



In this version of the report, the x-axis represents the requirements' status, and the individual bars are grouped by requirement importance. Each data-value can be viewed by positioning the mouse pointer over the bar, and a "tooltip" will pop-up listing the actual data value.

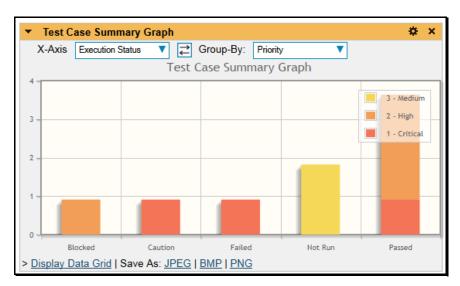
Clicking on the "Display Data Grid" link will display the underlying data that is being used to generate the graph:

	Requirement Summary Graph								
Status	1 - Critical	2 - High	3 - Medium	4 - Low					
Completed	8	1	0	0					
In Progress	2	2	0	0					
Planned	0	2	3	0					
Requested	0	1	4	2					
> Download Data As CSV									

Clicking on the Download Data as CSV link will export the datagrid into Comma Separated Values (CSV) format that can be opened in MS-Excel. Some browsers also support the ability to save the graph as an image file (JPEG, PNG and GIF formats).

11.7.2. Test Case Summary Graph

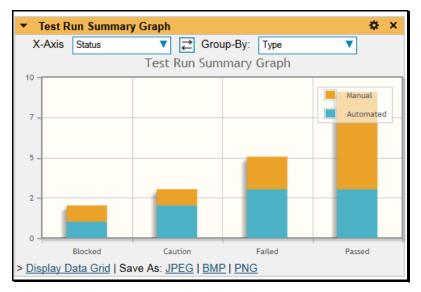
The test case summary graph shows how many test cases are currently in a project. The number of test cases is displayed according to the criteria that you specify. You can specify the type of data displayed along the x-axis, and the test case information which is used to group the data. When you first open the graph you will be asked to pick the field that you would like to display on the x-axis and the field that you would like to group the data by. Once you have chosen the appropriate fields the graph will be displayed:



In this version of the report, the x-axis represents the test case execution status, and the individual bars are grouped by test case priority. Each data-value can be viewed by positioning the mouse pointer over the bar, and a "tooltip" will pop-up listing the actual data value. Clicking on the "Display Data Grid" link will display the underlying data that is being used to generate the graph. In addition, clicking on the Download Data as CSV link will export the datagrid into Comma Separated Values (CSV) format that can be opened in MS-Excel. Some browsers also support the ability to save the graph as an image file (JPEG, PNG and GIF formats).

11.7.3. Test Run Summary Graph

The test run summary graph shows how many test runs are currently in a project. The number of test runs is displayed according to the criteria that you specify. You can specify the type of data displayed along the x-axis, and the test run information which is used to group the data. When you first open the graph you will be asked to pick the field that you would like to display on the x-axis and the field that you would like to group the data by. Once you have chosen the appropriate fields the graph will be displayed:

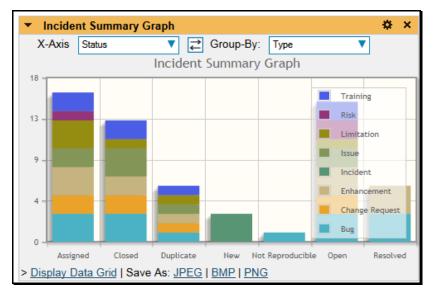


In this version of the report, the x-axis represents the test run execution status, and the individual bars are grouped by test run type. Each data-value can be viewed by positioning the mouse pointer over the bar, and a "tooltip" will pop-up listing the actual data value. Clicking on the "Display Data Grid" link will display

the underlying data that is being used to generate the graph. In addition, clicking on the Download Data as CSV link will export the datagrid into Comma Separated Values (CSV) format that can be opened in MS-Excel. Some browsers also support the ability to save the graph as an image file (JPEG, PNG and GIF formats).

11.7.4. Incident Summary Graph

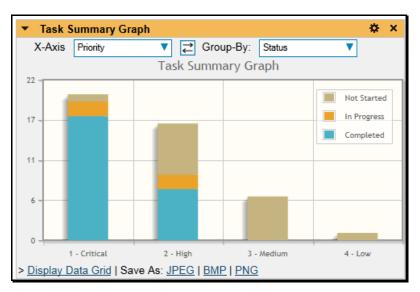
The incident summary graph shows how many incidents are currently in a project. The number of incidents is displayed according to the criteria that you specify. You can specify the type of data displayed along the x-axis, and the incident information which is used to group the data. When you first open the graph you will be asked to pick the field that you would like to display on the x-axis and the field that you would like to group the data by. Once you have chosen the appropriate fields the graph will be displayed:



In this version of the report, the x-axis represents the incidents' status, and the individual bars are grouped by the type of incident. Each data-value can be viewed by positioning the mouse pointer over the bar, and a "tooltip" will pop-up listing the actual data value. Clicking on the "Display Data Grid" link will display the underlying data that is being used to generate the graph. In addition, clicking on the Download Data as CSV link will export the datagrid into Comma Separated Values (CSV) format that can be opened in MS-Excel. Some browsers also support the ability to save the graph as an image file (JPEG, PNG and GIF formats).

11.7.5. Task Summary Chart

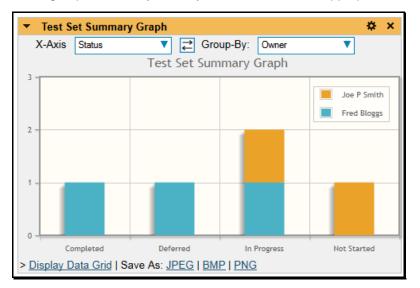
The task summary graph shows how many tasks are currently in a project. The number of tasks is displayed according to the criteria that you specify. You can specify the type of data displayed along the x-axis, and the task information which is used to group the data. When you first open the graph you will be asked to pick the field that you would like to display on the x-axis and the field that you would like to group the data by. Once you have chosen the appropriate fields the graph will be displayed:



In this version of the report, the x-axis represents the tasks' priority, and the individual bars are grouped by the status of task. Each data-value can be viewed by positioning the mouse pointer over the bar, and a "tooltip" will pop-up listing the actual data value. Clicking on the "Display Data Grid" link will display the underlying data that is being used to generate the graph. In addition, clicking on the Download Data as CSV link will export the datagrid into Comma Separated Values (CSV) format that can be opened in MS-Excel. Some browsers also support the ability to save the graph as an image file (JPEG, PNG and GIF formats).

11.7.6. Test Set Summary Graph

The test set summary graph shows how many test set are currently in a project. The number of test sets is displayed according to the criteria that you specify. You can specify the type of data displayed along the x-axis, and the test set information which is used to group the data. When you first open the graph you will be asked to pick the field that you would like to display on the x-axis and the field that you would like to group the data by. Once you have chosen the appropriate fields the graph will be displayed:

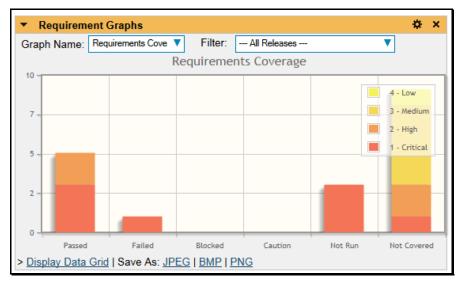


In this version of the report, the x-axis represents the test set status, and the individual bars are grouped by the name of the tester (owner). Each data-value can be viewed by positioning the mouse pointer over the bar, and a "tooltip" will pop-up listing the actual data value. Clicking on the "Display Data Grid" link will display the underlying data that is being used to generate the graph. In addition, clicking on the Download Data as CSV link will export the datagrid into Comma Separated Values (CSV) format that can be opened in MS-Excel. Some browsers also support the ability to save the graph as an image file (JPEG, PNG and GIF formats).

11.8. Snapshot Graphs

11.8.1. Requirements Coverage Graph

The requirements coverage graph shows how many requirements are currently in a project, according to their test coverage status.

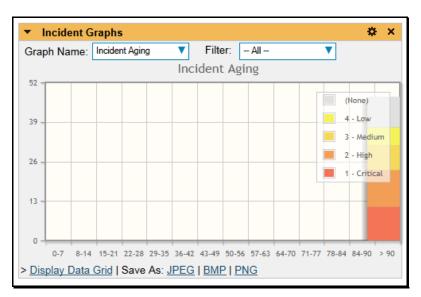


The x-axis of the report represents the various test execution statuses that a requirement can have as its coverage status (plus the Not-Covered status), and the individual bars are grouped by the requirements importance. Each data-value can be viewed by positioning the mouse pointer over the bar, and a "tooltip" will pop-up listing the actual data value.

Clicking on the "Display Data Grid" link will display the underlying data that is being used to generate the graph. You can also filter the graph to just display data for a specific release/iteration as well as for the project as a whole. In addition, clicking on the Download Data as CSV link will export the datagrid into Comma Separated Values (CSV) format that can be opened in MS-Excel. Some browsers also support the ability to save the graph as an image file (JPEG, PNG and GIF formats).

11.8.2. Incident Aging Graph

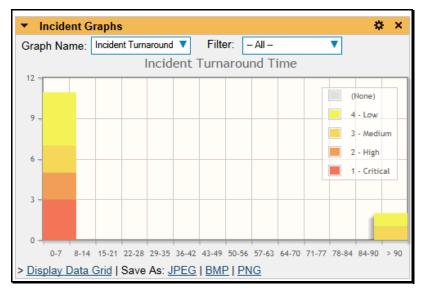
The incident aging chart displays the number of days incidents have been left open in the system. The chart is organized as a stacked histogram, with the count of incidents on the y-axis and different age intervals on the x-axis. Each bar-chart color represents a different incident priority, giving a project manager a snapshot view of the age of open project incidents by priority.



This report can be filtered by the type of incident, so for example you can see the aging of just bugs, or just issues for the project in question. Clicking on the "Display Data Grid" link will display the underlying data that is being used to generate the graph. In addition, clicking on the Download Data as CSV link will export the datagrid into Comma Separated Values (CSV) format that can be opened in MS-Excel. Some browsers also support the ability to save the graph as an image file (JPEG, PNG and GIF formats).

11.8.3. Incident Turnaround Time Graph

The incident turnaround time chart displays the number of days incidents have taken to be closed (from the time they were first raised) in the system. The chart is organized as a stacked histogram, with the count of incidents on the y-axis and different turnaround time intervals on the x-axis. Each bar-chart color represents a different incident priority, giving a project manager a snapshot view of the turnaround time of project incidents by priority.



This report can be filtered by the type of incident, so for example you can see the turnaround time of just bugs, or just issues for the project in question. Clicking on the "Display Data Grid" link will display the underlying data that is being used to generate the graph. In addition, clicking on the Download Data as CSV link will export the datagrid into Comma Separated Values (CSV) format that can be opened in MS-

Excel. Some browsers also support the ability to save the graph as an image file (JPEG, PNG and GIF formats).

11.8.4. Task Velocity Chart

The Task Velocity graph shows the total estimated and actual effort delivered in each project release and/or iteration:

▼ Task Grap	hs			☆ ×
Graph Name:	Task Velocity	Filter: 1	.1.0.0 - Library Sy	stem Release 1.1 🔻
		Task Ve	elocity	
79 - 59 -				Actual Velocity Expected Velocity
40				
20	•			
	I.1.0.0.0001 <u>Grid</u> Save As: <u>JP</u>		0.0002 IG	1.1.0.0.0003

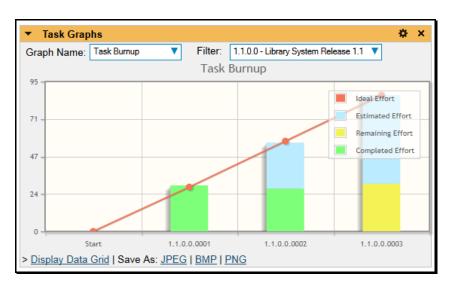
The y-axis of the graph displays the total estimated and actual effort delivered, and the x-axis can be configured to display three different levels of granularity:

- All Releases This shows the total estimated and actual effort for each of the releases in the project
- Specific Release This shows the total estimated and actual effort for each of the iterations in the selected release
- Specific Iteration This shows the total estimated actual effort for each working day in the daterange covered by the selected iteration.

Clicking on the "Display Data Grid" link will display the underlying data that is being used to generate the graph. In addition, clicking on the Download Data as CSV link will export the datagrid into Comma Separated Values (CSV) format that can be opened in MS-Excel. Some browsers also support the ability to save the graph as an image file (JPEG, PNG and GIF formats).

11.8.5. Task Burnup Chart

The Task Burnup graph shows the cumulative amount of work outstanding for each release/iteration in the project with separate lines for the estimated, remaining and completed effort:



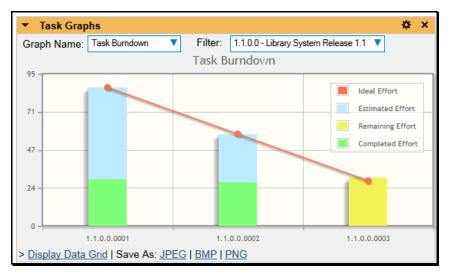
The y-axis of the graph displays the cumulative increase in work for the project, broken down by effort (estimated, remaining and completed) with a red line indicating the ideal burnup. The x-axis can be configured to display two different levels of granularity:

- Specific Release This shows the increase in work for each of the iterations in the selected release
- Specific Iteration This shows the increase in work for each working day in the date-range covered by the selected iteration.

Clicking on the "Display Data Grid" link will display the underlying data that is being used to generate the graph. In addition, clicking on the Download Data as CSV link will export the datagrid into Comma Separated Values (CSV) format that can be opened in MS-Excel. Some browsers also support the ability to save the graph as an image file (JPEG, PNG and GIF formats).

11.8.6. Task Burndown Chart

The Task Burndown graph shows the remaining work that needs to be done for each release/iteration in the project with separate lines for the estimated, remaining and completed effort:



The y-axis of the graph displays the total remaining work that needs to be done, broken down by effort (estimated, remaining and completed) with a red line indicating the ideal burndown. The x-axis can be configured to display two different levels of granularity:

- Specific Release This shows the total remaining work that needs to be done for each of the iterations in the selected release
- Specific Iteration This shows the total remaining work that needs to be done for each working day in the date-range covered by the selected iteration.

Clicking on the "Display Data Grid" link will display the underlying data that is being used to generate the graph. In addition, clicking on the Download Data as CSV link will export the datagrid into Comma Separated Values (CSV) format that can be opened in MS-Excel. Some browsers also support the ability to save the graph as an image file (JPEG, PNG and GIF formats).

11.9. Date-Range Graphs

11.9.1. Test Run Progress Rate Graph

The test run progress rate graph shows how many tests have been executed during a period of time, and what execution status was recorded. The report can be displayed for a specific date-range and for the entire project or for a specific release/iteration:

▼ Testing Date Range Gra	aphs			¢ ×
Graph Name: Test Run Progre	ess Rate 🔹 🔻	Filter: All Releases	•	Date Range: 9/1/2 - 12/31 🥅
		Test Run Pro	ogress Rate	<u> </u>
6 Passed				
Not Run N/A				
Blocked Caution				
0				
Sep 1, 03 > <u>Display Data Grid</u> <u>Reset Z</u>	Oct 1, 03 Coom Save As: JPEG BMP	Nov 1	I, 03	Dec 1, 03 Jan 1, 04

In this version of the report, the y-axis represents the number of test runs executed in each 24 hour period, and the x-axis represents a specific week in the time-span. Each data-bar can be viewed by positioning the mouse pointer over the point, and a "tooltip" will pop-up listing the actual data value. You can filter the report by the release/iteration that the test run was executed against, and also change the date range. If you choose a smaller date-range, the x-axis will switch from weekly to daily and if you choose a larger date-range, the x-axis will switch to monthly.

Clicking on the "Display Data Grid" link will display the underlying data that is being used to generate the graph. In addition, clicking on the Download Data as CSV link will export the datagrid into Comma Separated Values (CSV) format that can be opened in MS-Excel. Some browsers also support the ability to save the graph as an image file (JPEG, PNG and GIF formats).

11.9.2. Incident Progress Rate Graph

The incident progress rate chart displays the total number of incidents created and closed over a particular date-range, either for all incident types or for a specific incident type:

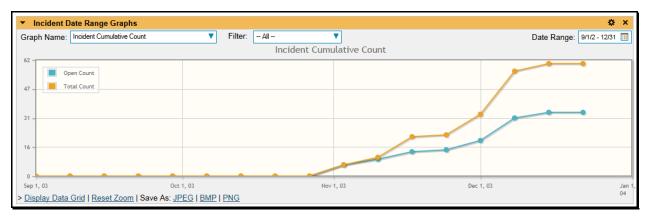
▼ Incident Date Range Graphs		¢ ×
Graph Name: Incident Progress Rate	Filter: - All 🔻	Date Range: 9/1/2 - 12/31
24 -	Incident Progress Rate	
Discovered Count		\land
12		
6 -	~/	
0		
Sep 1, 03 Oct 1, 03 > <u>Display Data Grid</u> <u>Reset Zoom</u> Save As: <u>JPEG</u> <u>BMF</u>	Nov 1, 03	Dec 1, 03 Jan 1, 04

In this version of the report, the y-axis represents the number of incidents (either created or closed in a 24 hour period), and the x-axis represents a specific day in the time-span. Each data-point can be viewed by positioning the mouse pointer over the point, and a "tooltip" will pop-up listing the actual data value. You can filter the report by the type of incident, and also change the date range (e.g. displaying only the bugs for the date range). If you choose a smaller date-range, the x-axis will switch from weekly to daily and if you choose a larger date-range, the x-axis will switch to monthly.

Clicking on the "Display Data Grid" link will display the underlying data that is being used to generate the graph. In addition, clicking on the Download Data as CSV link will export the datagrid into Comma Separated Values (CSV) format that can be opened in MS-Excel. Some browsers also support the ability to save the graph as an image file (JPEG, PNG and GIF formats).

11.9.3. Cumulative Incident Count Graph

The cumulative incident count chart displays the cumulative total number of incidents logged in the system for the current project over a particular date-range, either for all incident types or for a specific incident type. The report displays two data series, one illustrating the total count of all incidents, the other the total count of all *open incidents* (i.e. with status not set to fixed or closed):



In this version of the report, the y-axis represents the number of incidents, and the x-axis represents a specific week in the time-span. Each data-point can be viewed by positioning the mouse pointer over the point, and a "tooltip" will pop-up listing the actual data value. You can also filter the type of incident being reported, as well as change the date interval. If you choose a smaller date-range, the x-axis will switch from weekly to daily and if you choose a larger date-range, the x-axis will switch to monthly.

Clicking on the "Display Data Grid" link will display the underlying data that is being used to generate the graph. In addition, clicking on the Download Data as CSV link will export the datagrid into Comma Separated Values (CSV) format that can be opened in MS-Excel. Some browsers also support the ability to save the graph as an image file (JPEG, PNG and GIF formats).

11.9.4. Open Incident Count Graph

The open incident count chart displays the net number of open incidents in the system for the current project over a particular date-range categorized by incident priority, either for all incident types or for a specific incident type:



In this version of the report, the y-axis represents the number of incidents, and the x-axis represents a specific week in the time-span. The exact count of each bar in the stacked histogram can be viewed by positioning the mouse pointer over the bar, and a "tooltip" will pop-up listing the actual data value. You can also filter the type of incident being reported, as well as change the date interval. If you choose a smaller date-range, the x-axis will switch from weekly to daily and if you choose a larger date-range, the x-axis will switch to monthly.

Clicking on the "Display Data Grid" link will display the underlying data that is being used to generate the graph. In addition, clicking on the Download Data as CSV link will export the datagrid into Comma Separated Values (CSV) format that can be opened in MS-Excel. Some browsers also support the ability to save the graph as an image file (JPEG, PNG and GIF formats).

12. Source Code

This section outlines the source code integration features of SpiraPlan® and SpiraTeam® that can be used to browse the source code repository associated with a particular project and link artifacts in SpiraTeam to revisions / commits made in the source code repository. This functionality allows project members to quickly view files in the repository through a convenient web interface and also to see the end-to-end traceability from requirements, tasks and incidents to the code changes that addressed the requirement, fulfilled the task or resolved the incident

The software can be integrated with a variety of different version control / Software Configuration Management (SCM) systems by means of different plug-ins. This section will outline the general features irrespective of the type of version control provider being used. For details on using a specific provider (e.g. Subversion) please refer to the separate *SpiraPlan/Team Version Control Integration Guide*. This section also assumes that an administrator has already configured the project to be integrated with the version control provider. The steps for using the administrative interface are described in the separate *SpiraTeam Administration Guide*.

12.1. Source Code File List

When you click on the Tracking > Source Code link on the global navigation bar, you will initially be taken to the source code repository file list screen illustrated below:

spiraTeam [*]	Welcome, System Ad	ministrator My Profile Administration	Log Out Library	Information System	▼	Help?
spirarcain	My Page Projec	t Home Planning Testing	Tracking	Reporting		
Incidents Tasks Resources So	ource Code					Role: Project Owner
Repository Browser Refresh	Bus	iness Design > Refresh Apply Filter Clea	ar Filters			
test://MyRepository	V	File Name ∆ ▼	Size ▲▼	Author ▲▼	Latest Revision ▲▼	Last Edited ▲▼
E Business Design						
🗉 🗖 Technical Design		Document Filename1.doc	100 KB	Fred Bloggs	rev0001	17-Jan-2010
🗉 🗀 Development		Document Filename10.pptx	105 KB	Fred Bloggs	rev0005	17-Jan-2010
🗉 🧰 Test		Document Filename11.htm	75 KB	Fred Bloggs	rev0006	17-Jan-2010
Documentation Training		Document Filename2.xls	150 KB	Fred Bloggs	rev0002	17-Jan-2010
		Document Filename21.cs	100 KB	Fred Bloggs	rev0001	17-Jan-2010
		Document Filename22.vb	150 KB	Fred Bloggs	rev0002	17-Jan-2010
Other Operations		Document Filename23.cpp	180 KB	Fred Bloggs	rev0001	17-Jan-2010
> View Revision Log		Document Filename24.java	100 KB	Fred Bloggs	rev0004	17-Jan-2010
		Document Filename25.pl	125 KB	Fred Bloggs	rev0001	17-Jan-2010
		Document Filename26.php	20 KB	Fred Bloggs	rev0002	17-Jan-2010
		Document Filename27.exe	1005 KB	Fred Bloggs	rev0001	17-Jan-2010
		Document Filename28.rb	87 KB	Fred Bloggs	rev0003	17-Jan-2010
		Document Filename29.aspx	100 KB	Fred Bloggs	rev0001	17-Jan-2010
		Document Filename3.docx	180 KB	Fred Bloggs	rev0001	17-Jan-2010
		Document Filename30.asp	105 KB	Fred Bloggs	rev0005	17-Jan-2010
	Show	v 15 V rows per page			i⊲ ⊲ Di	isplaying page 1 🗳 of 2 🕨 🍽

This screen consists of three main sections:

- The top left-hand pane displays a hierarchical list of the various folders that exist in the source code repository. Clicking on the [+] expand icon will expand the child folders and clicking on the name of the folder will display the list of files in the folder in the main pane to the right.
- The main right-hand pane displays a list of all the files contained within the currently selected folder. This list can be filtered and sorted, and you can choose how many rows of documents to display on the page at one time.
- The bottom left-hand pane contains the option to view the overall revision log for the project, clicking on that will display the revision log page (see section 12.3 for details).

12.2. Source Code File Details

When you click on a file in the source code file list described above, you are taken to the file details page illustrated below:

spiraTeam	Welcome, Fred Bloggs Ubrary Information System 🔻 My Profile Administration Log Out Search 🏵								
Spira	My Page Project I	Home Planning	Testing	Tracking	Reporting				
Incidents Tasks Resources Source Code > File Details									
<< Back to File List	< Back to File List Source Code File: Document Filename1 doc								
Files	File Path:	test://Server/Root/File	es/Filename1.ext ⁶	6					
Document Filename10.pptx	File Type (Size):	Word Document 👜 ((100 KB)	Las	st Edited:	12/20/2011 12:42:06 PM			
Document Filename11.htm	Author:	Fred Bloggs		Lat	est Revision:	<u>rev0001</u>			
Document Filename2.xls Cocument Filename21.cs	Revisions *	Associations *							

This page is made up of three areas; the left pane is for navigation, the upper part of the main pane contains the details of the file, and the bottom part of the right pane contains the list of file revisions stored in the version control system.

The navigation pane consists of a link that will take you back to the source code file list, as well as a list of other files in the current folder. This latter list is useful as a navigation shortcut; you can quickly view the detailed information of all the peer files by clicking on the navigation links without having to first return to the main file list page.

The top part of the main pane allows you to view the details of the particular file in the version control system. Clicking on the "File Path" hyperlink will actually open the file in a separate window, and depending on the type of file, it may display in the page or prompt you to download it to your local computer. The "Latest Revision" hyperlink allows you to view details of the latest revision (see section 12.4 below).

The lower part of the main pane can be switched between two different views by clicking the appropriate tab. Initially the pane will be in "Revisions" mode, but it can be switched to "Associations" as well. The functionality in each of these two views is described below:

12.2.1. Revisions

This view displays the list of revisions that have been committed for the current file:

	Revisions *	Associations *							
> Refresh Apply Filter Clear Filter									
~	Revision ▲▼	Author ▲▼	Summary A V	Commit Date ▲▼	Content ∆ ▲▼	Properties ∆ ▲▼			
					Any 🔻	- Any 🔻			
	🖄 <u>rev0012</u>	Fred Bloggs	The artifact was changed in this version to fix th	20-Dec-2011	Yes	No			
	🖄 <u>rev0009</u>	Fred Bloggs	The artifact was changed in this version to fix th	20-Dec-2011	Yes	Yes			
	🖄 <u>rev0010</u>	Fred Bloggs	The artifact was changed in this version to fix th	20-Dec-2011	Yes	Yes			
	🖄 <u>rev0015</u>	Fred Bloggs	The artifact was changed in this version to fix th	20-Dec-2011	Yes	No			
	🖄 <u>rev0016</u>	Fred Bloggs	The artifact was changed in this version to fix th	20-Dec-2011	Yes	No			
	🖄 <u>rev0013</u>	Fred Bloggs	The artifact was changed in this version to fix th	20-Dec-2011	No	Yes			

Each revision in the list is displayed with its name, the name of the person who made the revision, a description of what was changed, the date the change was made and two flags that denote whether the content was changed and/or if any of the properties of the file were changed. Clicking on the revision name will take you to the appropriate revision details page (see section 12.4).

12.2.2. Associations

This view displays a list of the SpiraTeam artifacts in the current project that are associated with the current file. This allows you to see which requirements, test cases, incidents, tasks, etc. are linked to the current file. Clicking on the hyperlink for the artifact will take you to the appropriate artifact page inside the project (assuming your user has permissions to access that information).

Revisions	* Associa	tions *						
Date	Artifact Name			Creator	Comment	Artifact Type	ID	Operations
1-Sep-2010	Ability to add new b	books to the	<u>system</u>	Fred Bloggs		Requirement	RQ000004	> Remove
25-May-2010	Cannot add a new	book to the s	ystem	Joe P Smith		Incident	IN000007	> <u>Remove</u>
6-May-2005	Create book object	insert metho	<u>od</u>	Fred Bloggs	Take a look at this document and see if it clarifi	. Task	TK000002	> <u>Remove</u>
Add New As: Please choose Artifact Type Artifact ID*: Comment:	the artifact that you wan		ssociation tr	D:]				

In addition, you can use the "Add New Association" section to add a new association from the current source code file to an existing artifact in SpiraTeam. To add the association, you just need to select the type of artifact being associated (requirement, test case, incident, etc.) and the numeric ID of the artifact. For example to add an association to Requirement RQ00005 you would choose Artifact Type = Requirement and Artifact ID = 5.

12.3. Source Code Revision List

If you click on the "View Revision Log" hyperlink on the main Source Code page, it will take you to the Revision List page that displays all the revisions made to the project in a sortable, filterable list:

śp	iraTean	ຳ	Welcome, System Administrator <u>My Profile</u> <u>Administration</u> <u>L</u> My Page Project Home Planning Testing	Og Out Library Information System	•	Help
nciden	ts <u>Tasks</u> <u>Res</u>		Code > Revisions	reporting		Role: Project Ow
< <u>Bac</u>	k to Source Code Re	pository				
> Re	fresh Apply Filter	Clear Filters				
~	Revision ▲▼	Author ▲▼	Summary AV	Commit Date ▲▼	Content ∆ ▲▼	Properties ∆ ▲▼
					Any 🔻	Any 🔻
	A rev0011	Fred Bloggs	The artifact was changed in this version to fix th	18-Jan-2010	Yes	No
	A rev0012	Fred Bloggs	The artifact was changed in this version to fix th	18-Jan-2010	Yes	No
	A rev0009	Fred Bloggs	The artifact was changed in this version to fix th	18-Jan-2010	Yes	Yes
	A rev0010	Fred Bloggs	The artifact was changed in this version to fix th	18-Jan-2010	Yes	Yes
	A rev0015	Fred Bloggs	The artifact was changed in this version to fix th	18-Jan-2010	Yes	No
	A rev0016	Fred Bloggs	The artifact was changed in this version to fix th	18-Jan-2010	Yes	No
	A rev0013	Fred Bloggs	The artifact was changed in this version to fix th	18-Jan-2010	No	Yes
	A rev0014	Fred Bloggs	The artifact was changed in this version to fix th	18-Jan-2010	No	Yes
	A rev0003	Fred Bloggs	The artifact was changed in this version to fix th	18-Jan-2010	No	No
	A rev0004	Fred Bloggs	The artifact was changed in this version to fix th	18-Jan-2010	Yes	No
	A rev0001	Fred Bloggs	The artifact was changed in this version to fix th	18-Jan-2010	Yes	Yes
	A rev0002	Fred Bloggs	The artifact was changed in this version to fix th	18-Jan-2010	Yes	No
	A rev0007	Fred Bloggs	The artifact was changed in this version to fix th	18-Jan-2010	Yes	Yes
	A rev0008	Fred Bloggs	The artifact was changed in this version to fix th	18-Jan-2010	Yes	Yes
	rev0005	Fred Bloggs	The artifact was changed in this version to fix th	18-Jan-2010	No	No

Each revision in the list is displayed with its name, a description of what changed in the revision, the name of the person who committed the revision, and whether the revision was a change of the actual

content, or just a change of the properties of the content. Clicking on the hyperlink for the revision name will take you to the Revision Details page for that revision (see section 12.4 below).

12.4. Source Code Revision Details

When you click on a revision hyperlink in either the project revision log or the file revisions tab described above, you are taken to the revision details page illustrated below:

spiraTeam	Welcome, Fred Bloggs Library	y Information System V <u>My Profile</u> <u>Admin</u>	istration Log Out Search 🌖	
Spile	My Page Project H	lome Planning Testing	Tracking Reporting	
Incidents Tasks Resources So	urce Code > Revision Details	i		
<< Back to Revision List	Source Code Revi	sion: 🖄 rev0012		
 rev0011 rev0012 rev0009 rev0010 rev0010 rev0015 	Notes:	The artifact was changed in this v	ersion to fix the issue with the data access com	iponent .::
A rev0016	Edited By:	Fred Bloggs	Content Δ:	Yes
له rev0013	Build:	🖺 <u>Build 0011</u>	Properties Δ:	No
실) rev0014 실) rev0003	Last Edited:	12/20/2011 1:43:55 PM		
▲) rev0004	Files *	Associations *		

This page is made up of three areas; the left pane is for navigation, the upper part of the main pane contains the details of the revision, and the bottom part of the right pane contains the list of files that were changed in this revision and the list of artifacts that the revision is associated with.

The navigation pane consists of a link that will take you back to the source code revision list, as well as a list of other revisions associated with the current file. This latter list is useful as a navigation shortcut; you can quickly view the detailed information of all the peer revisions by clicking on the navigation links without having to first return to the main revision list page.

The top part of the main pane allows you to view the details of this revision in the version control system, including the description of what was changed, the date that the change was made, and the name of the person who made the change.

The lower part of the main pane can be switched between two different views by clicking the appropriate tab. Initially the pane will be in "Files" mode, but it can be switched to "Associations" as well. The functionality in each of these two views is described below:

12.4.1. Revision Files

This view displays the list of files that were changed in the current revision:

	Files * Associations *									
> <u>Ref</u>	> Refresh Apply Filter Clear Filters									
 Image: A second s	File Name ∆ ▼	Size ▲▼	Author ▲▼	Latest Revision AV	Action ▲▼	Last Edited ▲▼				
	Document Filename1.doc	100 KB	Fred Bloggs	rev0001	Added	18-Jan-2010				
	Document Filename10.pptx	105 KB	Fred Bloggs	rev0005	Deleted	18-Jan-2010				
	Document Filename11.htm	75 KB	Fred Bloggs	rev0006	Replaced	18-Jan-2010				
	Document Filename2.xls	150 KB	Fred Bloggs	rev0002	Added	18-Jan-2010				
	Document Filename21.cs	100 KB	Fred Bloggs	rev0001	Undefined	18-Jan-2010				

Each file in the list is displayed with its name, the file-size, who made changes to the file, what action was performed on the file (added, deleted, replaced, updated, etc.) and the most revision that exists for that file. Clicking on the filename will take you to the appropriate file details page (see section 12.2), and clicking on the revision hyperlink will take you the appropriate revision.

12.4.2. Revision Associations

This view displays a list of the SpiraTeam artifacts in the current project that are associated with the current revision. This allows you to see which requirements, incidents or tasks were affected by this specific change to the source code:

Files *	Associations *					
Date	Artifact Name		Created By	Comment	Artifact Type	Artifact #
18-Jan-2010	Ability to edit existing books in the system		Fred Bloggs	This requirement was implemented in this revision	Requirement	RQ000005
18-Jan-2010	Develop new book entry screen		n/a	This task was completed in this revision	Task	TK000001
-						

Clicking on the hyperlink for the artifact will take you to the appropriate artifact page inside the project (assuming your user has permissions to access that information). Note that these associations cannot be modified in SpiraTeam as they are creating directly inside the version control system. If you want to change/add associations, please refer to the appropriate section of the *SpiraPlan/Team Version Control Integration Guide*.

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