



SpiraTest User Manual

Version 1.5.1

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1. Introduction

SpiraTest™ provides an integrated, holistic Quality Assurance (QA) management solution that manages requirements, tests and incidents in one environment, with complete traceability from inception to completion.

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?

This user manual outlines the features and functionality available in SpiraTest™, and demonstrates how to use the application for managing the QA processes on a typical project.

2. Functionality Overview

This section outlines the functionality provided by SpiraTest™ in the areas of requirements management, test management, incident tracking and project / user management.

2.1. Requirements Management

SpiraTest™ 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.

2.2. Test Management

SpiraTest™ 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.

2.3. Incident Tracking

SpiraTest™ 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’. SpiraTest™ 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.

2.4. Projects and Users

SpiraTest™ 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.

2.5. Release Management

SpiraTest™ 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.

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. In addition to high-level project releases, SpiraTest™ can also track the individual builds or iterations that comprise a release, giving the project manager the option to manage agile methodology projects within the SpiraTest™ environment.

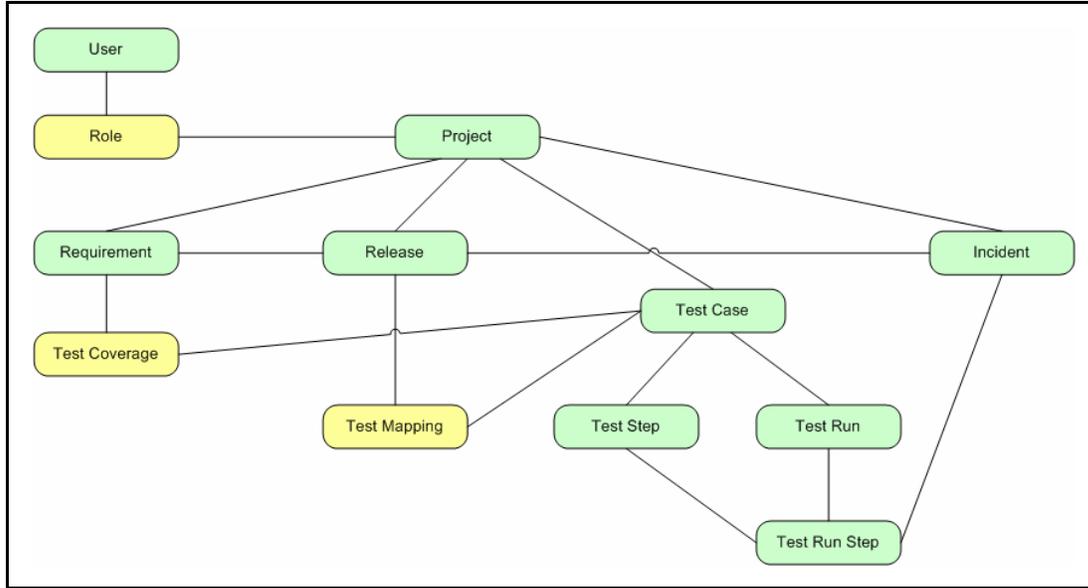
2.6. Task Management

In addition to storing the requirements for a project, SpiraTest™ 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. Miscellaneous

2.7.1. 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 diagram illustrates the relationships between the different artifacts and entities:



With these overall concepts in mind, the rest of this help manual will outline the functionality in each of the SpiraTest™ 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 *SpiraTest™ Administration Guide*.

2.7.2. 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, SpiraTest™ 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	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	TK
Incident Status	IS		

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:

Icon	Artifact Description
	Summary Requirement
	Detailed Requirement
	Test Folder
	Test Case with Test Steps

	Test Case without Test Steps
	Release
	Iteration / Build
	Task
	Incident
	Artifact has an Attachment

3. User/Project Management

This section outlines how you can log into SpiraTest™, 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 SpiraTest™ 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 SpiraTest™ regardless of browser window closing or inactivity, select the “Remember Me” 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 SpiraTest™ 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 SpiraTest™ 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 log-out. 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”:

The screenshot shows the SpiraTest web application interface. At the top, there is a user welcome message: "Welcome, Fred Bloggs | My Profile | Log Out | Library Information System". Below this is a navigation bar with tabs: "My Page", "Project Home", "Requirements", "Releases", "Test Cases", "Incidents", and "Reports". The "My Page" tab is active. The user's role is identified as "Manager".

The main content area is divided into several sections:

- My Projects:** A table listing projects with columns for Project Name, Web Site, and Creation Date. The "Library Information System" project is highlighted in yellow, indicating it is the current project.
- My Assigned Tests:** A table listing tests with columns for Name, Project, Status, and Last Executed. Two tests are listed, one with a "Passed" status and one with a "Caution" status.
- My Pending Test Runs:** A table with columns for Paused On, Project, # Tests, and Operations.
- My Assigned Tasks:** A table listing tasks with columns for Name, Project, Status, and Due Date. Two tasks are listed, one "Not Started" and one "In Progress".
- My Assigned Incidents:** A table listing incidents with columns for Name, Project, Type, Priority, and Date Opened. It contains 10 incidents with various priorities and dates.
- My Detected Incidents:** A table listing detected incidents with columns for Name, Project, Type, Priority, and Date Opened. It contains 10 incidents with various priorities and dates.

Note that once you have successfully logged-in and chosen a project, SpiraTest™ 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. Each of the ‘widgets’ displayed on the page can be minimized by clicking on the arrow icon (▼) in the top-left of the window, or closed by clicking-on the cross icon (✕) 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 reset the page display by clicking the “Restore Display Settings” hyperlink at the bottom of the page.

When you load your ‘My Page’ for the first time it will consist of the following main elements:

3.2.1. My Projects

This section lists all the projects you have been given access to, together with the name, description, web-site 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 white 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 yellow 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-down-list of projects displayed on the global navigation bar to the right of the “Log Out” link.

3.2.2. My Assigned Tests

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 5.3) so that you can easily retest failed cases.

3.2.3. My Pending Test Runs

This section lists any test runs that you started executing in the test case module but were unable to finish in time and chose the option to 'Pause'. Once paused, they are stored in the system in a pending state so that you can continue executing them at a later date. Any pending test run can be either deleted or resumed by clicking on the appropriate link.

3.2.4. 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.

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.

3.2.5 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".

3.2.6. 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".

3.3. Global Navigation

Regardless of the page you are on, SpiraTest™ will always display the global navigation bar, consisting of seven section tabs (My Page, Project Home, Requirements, Releases, Test Cases, Incidents and Reports) that correspond to the main parts of the system, as well as three secondary links to “My Profile” and “Log Out” and “Help”. Each of the main sections is described separately in this manual; however, it is worth noting that the section you’re currently accessing will always be displayed in a darker color blue that matches the horizontal bar. 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. 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.

3.3.2. Help

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

The screenshot shows the SpiraTest™ Help Center interface. On the left is a 'Table of Contents' with a tree view. The main content area is titled '4.1. Requirements List' and contains a table of requirements. The table has the following columns: Requirement Name, Importance, Status, Test Coverage, Author, and Last Updated. The requirements listed include:

Requirement Name	Importance	Status	Test Coverage	Author	Last Updated
Functional System Requirements	In Progress	Not Covered	Not Covered	Fred Blagoev	1-Dec-2003
Online Library Management System	In Progress	Not Covered	Not Covered	Fred Blagoev	1-Dec-2003
Book Management	1 - Critical	Completed	100%	Fred Blagoev	1-Dec-2003
Ability to add new books to the system	1 - Critical	Completed	100%	Fred Blagoev	1-Dec-2003
Ability to update existing books in the system	1 - Critical	Completed	100%	Fred Blagoev	1-Dec-2003
Ability to remove books with different authors	1 - Critical	Completed	100%	Fred Blagoev	1-Dec-2003
Ability to associate books with different authors	1 - Critical	Completed	100%	Fred Blagoev	1-Dec-2003
Ability to associate books with different authors	1 - Critical	Completed	100%	Fred Blagoev	1-Dec-2003
Ability to associate books with different authors	1 - Critical	Completed	100%	Fred Blagoev	1-Dec-2003
Ability to complete view all books added to the system	1 - Critical	Completed	100%	Fred Blagoev	1-Dec-2003
Subject Management	1 - Critical	In Progress	Not Covered	Fred Blagoev	1-Dec-2003
Subject Management	2 - High	In Progress	Not Covered	Joe P Smith	1-Dec-2003
Subject Management	3 - Medium	Planned	Not Covered	Joe P Smith	1-Dec-2003
Subject Management	3 - Medium	Suspended	Not Covered	Joe P Smith	1-Dec-2003

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.

3.3.3. 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 home page for that project (which is described in section 3.4 below).

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:

The screenshot shows the SpiraTest Project Home page for the 'Library Information System (PR000001)'. The page is organized into several sections:

- Project Overview:** Provides a brief description of the project and its owner (System Administrator).
- Requirements Summary:** A table showing the status of requirements across different priority levels (Critical, High, Medium, Low, None).
- Requirements Coverage:** A bar chart showing the distribution of requirements across various states: Passed, Failed, Blocked, Caution, Not Run, and Not Covered.
- Requirement Incident Count:** A table listing specific requirements and their associated open and total incident counts.
- Top Open Issues:** A table listing the most critical open issues, including their descriptions, priorities, and dates.
- Top Open Risks:** A table listing the most significant open risks, including their descriptions, priorities, and dates.
- Incident Summary:** A table providing a detailed overview of incident statuses, including Assigned, Closed, Duplicate, New, Not Reproducible, Open, Reopen, and Resolved, categorized by priority.
- Test Execution Status:** A bar chart showing the results of test executions, including Failed, Passed, Not Run, Blocked, and Caution, along with the total number of runs and the daily run count.

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.*

In a similar manner to the ‘My Page’, each of the ‘widgets’ displayed on the project homepage can be minimized by clicking on the arrow icon (▼) in the top-left of the window, or closed by clicking-on the cross icon (✕) in the top-right of the window. 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 reset the page display by clicking the “Restore Display Settings” hyperlink at the top of the page.

Each of the sections that make up the homepage is described 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 allow 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 "View Details" link at the top of the table simply brings up the project requirements list (see section 4.1).

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, displayed in an indented list. 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).

3.4.5. Top Open Issues

This section displays a breakdown of the *top five* 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).

3.4.6. Top Open Risks

This section displays a breakdown of the *top five* 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).

3.4.7. 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 by 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.

3.4.8. Test Execution Status

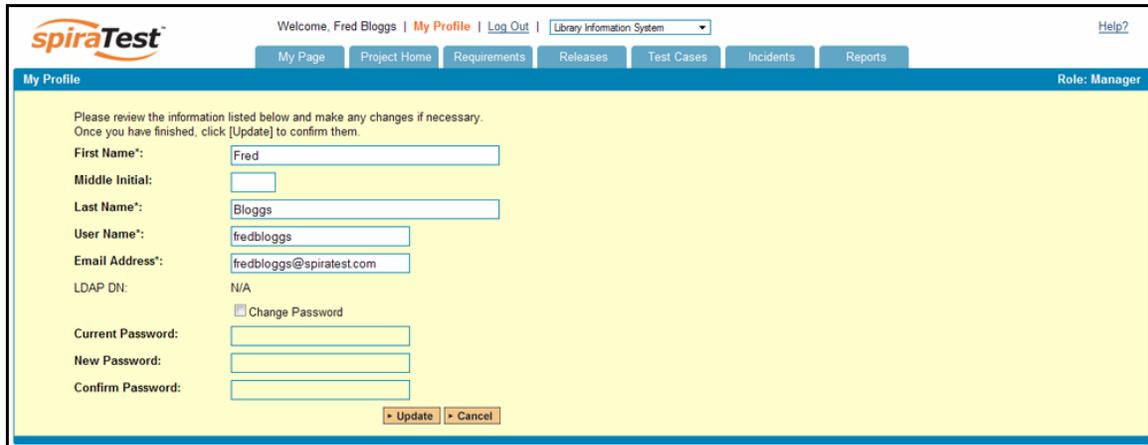
This section consists of a bar graph that displays the aggregated count of test cases in each execution status for the project. Note that this graph does not consider past test-runs when calculating the totals in each status (Passed, Failed or Not Run), it simply looks at each test-case and uses the 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 three 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 “View Details” link at the top of the table simply brings up the project test case list (see section 5.1).

In addition to the bar-chart, there is a 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.

3.5. 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:



The screenshot shows the SpiraTest user interface. At the top, there is a navigation bar with the SpiraTest logo, a welcome message for Fred Bloggs, and links for 'My Profile', 'Log Out', and 'Library Information System'. Below the navigation bar, there are tabs for 'My Page', 'Project Home', 'Requirements', 'Releases', 'Test Cases', 'Incidents', and 'Reports'. The main content area is titled 'My Profile' and shows the user's role as 'Manager'. The profile information is displayed in a form with the following fields:

- First Name*: Fred
- Middle Initial: [Empty]
- Last Name*: Bloggs
- User Name*: fredbloggs
- Email Address*: fredbloggs@spiratest.com
- LDAP DN: N/A
- Change Password:
- Current Password: [Empty]
- New Password: [Empty]
- Confirm Password: [Empty]

At the bottom of the form, there are two buttons: 'Update' and 'Cancel'.

You can change your user information including your first-name, last-name, middle-initial and user-name. The system will check to make sure that the user-name is not already in use, and warn you if this is the case. 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.

3.5.1. Change Password

In addition to being able to update your user information, you can optionally change your password at the same time. If you check the “Change Password” box, when the <Update> button is clicked, the system will expect you to have entered your old password and two instances of your new proposed password. If the old password matches the one stored in the system, and the two entries of the new password match, then the system will update your password, otherwise you will simply get a warning message indicating what needs to be corrected.

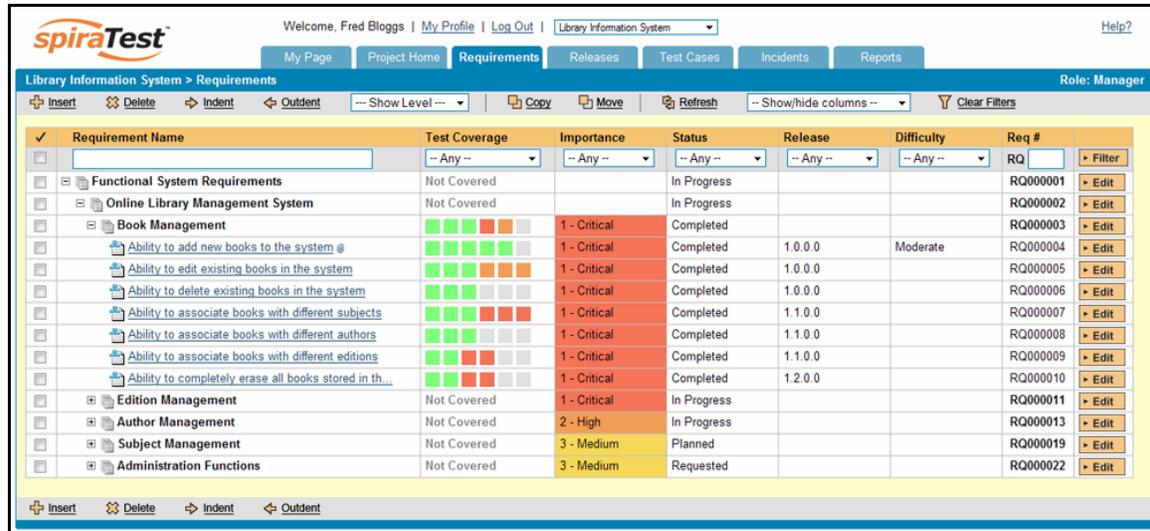
Note: If your SpiraTest user profile is linked to an account stored in an external LDAP server, you may find the change password option is disabled. This is because the system uses the password held in the external server. To change the password in this case, please contact your system administrator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

4. Requirements Management

This section outlines how the requirements management features of SpiraTest™ 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 “Requirements” tab on the global navigation bar, you will initially be taken to the requirements list screen illustrated below:



Requirement Name	Test Coverage	Importance	Status	Release	Difficulty	Req #
Functional System Requirements	Not Covered		In Progress			RQ000001
Online Library Management System	Not Covered		In Progress			RQ000002
Book Management	██████████	1 - Critical	Completed			RQ000003
Ability to add new books to the system @	██████████	1 - Critical	Completed	1.0.0.0	Moderate	RQ000004
Ability to edit existing books in the system	██████████	1 - Critical	Completed	1.0.0.0		RQ000005
Ability to delete existing books in the system	██████████	1 - Critical	Completed	1.0.0.0		RQ000006
Ability to associate books with different subjects	██████████	1 - Critical	Completed	1.1.0.0		RQ000007
Ability to associate books with different authors	██████████	1 - Critical	Completed	1.1.0.0		RQ000008
Ability to associate books with different editions	██████████	1 - Critical	Completed	1.1.0.0		RQ000009
Ability to completely erase all books stored in th...	██████████	1 - Critical	Completed	1.2.0.0		RQ000010
Edition Management	Not Covered	1 - Critical	In Progress			RQ000011
Author Management	Not Covered	2 - High	In Progress			RQ000013
Subject Management	Not Covered	3 - Medium	Planned			RQ000019
Administration Functions	Not Covered	3 - Medium	Requested			RQ000022

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 a graphical indicator that represents its coverage status. For those requirements that have no test-cases covering them (i.e. validating that the requirement works as expected) the indicator consists of a yellow 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 have three green bars (50% passed) and three gray bars (50% not run). *Note: The number of bars has no relation to the number of tests.*

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/not-run breakdown will be displayed as a "tooltip".

4.1.1. Insert

Clicking on the <Insert> button 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 a summary item, you need to insert it first, then indent it with the <Indent> button. If you insert a requirement without first selected an existing requirement from the list, the new requirement will simply be inserted 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, then: if the item is expanded and the children are visible, the children are simply made children of the item above it in the list, however if the item is not expanded and the children are hidden, then the children are all deleted. This behavior is similar to that found in project planning tools like Microsoft Project®. In addition, if all the children are deleted from a summary item, it changes back into a detail 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-indent 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

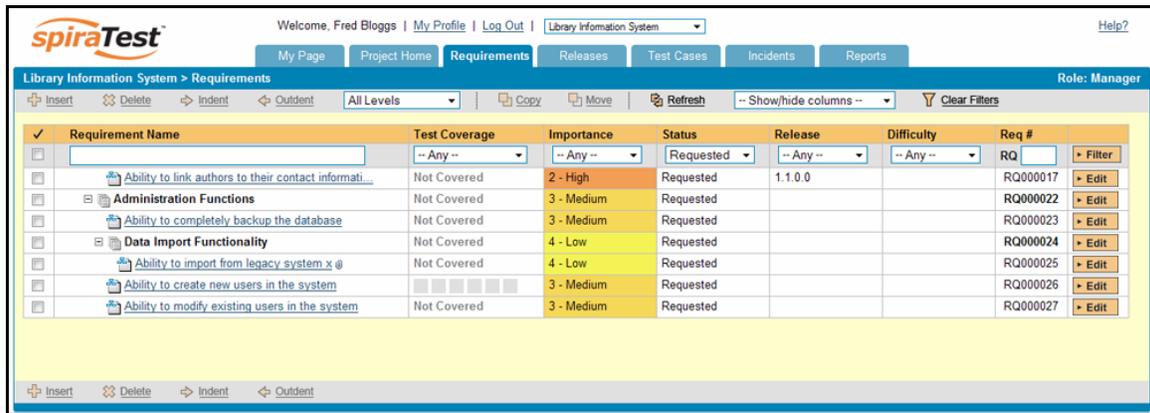
Each requirement in the list has an <Edit> button display in its right-most column. When you click this button, you change the item from "View" mode to "Edit" mode. The various columns are made editable, and <Update> <Cancel> buttons are displayed in the last column. When you have made your updates, you can either click <Update> to commit the changes, or <Cancel> to revert back to the original information.

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:



To filter the list by any of the displayed columns, you either choose an item from the appropriate drop-down list or enter a free-text phrase (depending on the type of field) then click <Filter> 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.

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 and Moving

To copy or move a requirement or set of requirements, simply select the check-boxes of the requirements you want to copy or move and then click either <Copy> or <Move> as appropriate. Upon clicking the button, the rows you selected will be marked in bold with a light yellow background and the screen will prompt you to choose the destination for the copy/move:

Requirement Name	Test Coverage	Importance	Status	Release	Difficulty	Req #
Functional System Requirements	-- Any --	-- Any --	-- Any --	-- Any --	-- Any --	RQ000001
Online Library Management System			In Progress			RQ000002
Book Management		1 - Critical	Completed			RQ000003
Ability to add new books to the system		1 - Critical	Completed	1.0.0.0	Moderate	RQ000004
Ability to edit existing books in the system		1 - Critical	Completed	1.0.0.0		RQ000005
Ability to delete existing books in the system		1 - Critical	Completed	1.0.0.0		RQ000006
Ability to associate books with different subjects		1 - Critical	Completed	1.1.0.0		RQ000007
Ability to associate books with different authors		1 - Critical	Completed	1.1.0.0		RQ000008
Ability to associate books with different editions		1 - Critical	Completed	1.1.0.0		RQ000009
Ability to completely erase all books stored in th...		1 - Critical	Completed	1.2.0.0		RQ000010
Edition Management		1 - Critical	In Progress			RQ000011
Author Management		2 - High	In Progress			RQ000013
Subject Management		3 - Medium	Planned			RQ000019
Administration Functions		3 - Medium	Requested			RQ000022

Choose the destination location for the copied/moved requirements by selecting the checkbox of the requirement you want to copy/move in front of and then clicking the “Paste Requirements” link. If you want to copy/move the requirements to the *end of the list*, you just click the link *without* selecting a destination. To abort the copy or move, all you need to do is click the “Cancel” link and the operation will be aborted. Note that copied requirements will also include the test coverage information from the originals.

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:

Requirement: Ability to add new books to the system (RQ000004)

Name: Ability to add new books to the system

Description: The ability to add new books into the system, complete with ISBN, publisher and other related information

Importance: 1 - Critical Author: Fred Bloggs

Status: Completed Release: Library System Release 1

Last Updated: 1-Dec-2003 Created On: 1-Dec-2003

Buttons: Update, Cancel

Test Coverage * Tasks * Custom Props * Attachments * 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.

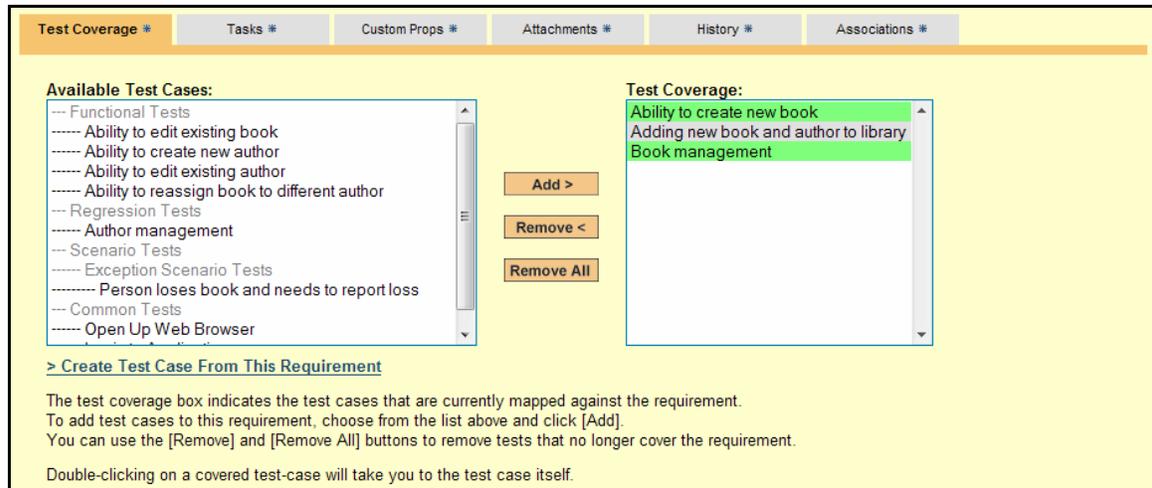
The navigation pane consists of a link that will take you back to the requirements list, as well as a list of the peer requirements to the one selected. This latter list is useful as a navigation shortcut; you can quickly view the coverage information of all the peer requirements by clicking on the navigation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

The 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 the <Update> button just below the fields to commit the changes.

In addition, the bottom part of the right pane can be switched between six views: “Test Coverage”, “Tasks”, “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:



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 (denoted by their gray color). The right box (which will initially be empty) contains the list of test cases mapped to this requirement. The test cases in this box are color-coded according to their most recent execution status – red for failed, green for passed and gray for not-run. Double-clicking on items in this box will jump you to the test case details screen for this test case (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 #	Custom Props #	Attachments #	History #	Associations #		
✓	Task Name	Status	Priority	Start Date	End Date	Owned By	Task #
<input type="checkbox"/>	New Task Delete Refresh						
<input type="checkbox"/>	Develop new book entry screen	Completed	1 - Critical	1-Mar-2004	2-Mar-2004	Fred Bloggs	TK000001
<input type="checkbox"/>	Create book object insert method	Completed	1 - Critical	1-Mar-2004	2-Mar-2004	Fred Bloggs	TK000002
<input type="checkbox"/>	Write book object insert queries	Completed	1 - Critical	1-Mar-2004	2-Mar-2004	Fred Bloggs	TK000003

Each of the tasks is displayed together with its name, description (by hovering the mouse over the name), completion status, priority, start-date, end-date (i.e. due-date), current owner and numeric task identifier. Clicking on the task name will bring up the Task Details page which is described in more detail in section 7.3. This allows you to edit the details of an existing task.

To add a new task to the requirement, you simply need to click on the <New Task> icon and an initial entry will be populated. To delete a task, simply check the box next to its name and click the <Delete> icon.

4.2.3. 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 #
Please edit the following custom properties of this artifact and click [Update] when finished:					
URL:	<input type="text" value="http://www.libraries.org"/>				
Difficulty:	<input type="text" value="Moderate"/>				
Requirement Type:	<input type="text" value="-- None --"/>				
<input type="button" value="Update"/> <input type="button" value="Cancel"/>					

Once you are satisfied with the values for the custom properties, simply click [Update] to commit the changes.

4.2.4. Attachments

In this mode, the main pane displays the list of documents that have been “attached” to the requirement. The documents can be in any format, though SpiraTest™ will only display the icon for certain known types.

Document Name	Size	Uploaded By	Upload Date ▼	
Book Management Functional Spec.doc	10 KB	Fred Bloggs	2-May-2006	Delete
Graphical Design Mockups.psd	1,500 KB	Joe P Smith	1-May-2006	Delete
Book Management Screen Wireframe.ai	3,200 KB	Joe P Smith	2-Mar-2005	Delete

Upload New Attachment

Filename: [Browse...](#)

Description:

[Upload](#)

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 requirement, simply click the <Delete> button and the attachment will be removed from the list. To attach a new document to the requirement, you need to 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 requirement.

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.

4.2.5. 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:

Change Date ▼	Field Name	Old Value	New Value	Changed By
5/2/2006 12:00:00 AM	Status	In Progress	Completed	Fred Bloggs
3/4/2005 12:00:00 AM	Status	Requested	In Progress	Joe P Smith

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.

4.2.6. Associations

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

Date	Artifact Name	Created By	Comment	Artifact Type	Artifact #
<input type="checkbox"/> Add Delete					
<input type="checkbox"/> 14-Mar-2004	Cannot install system on Oracle 9i	Fred Bloggs	This bug affects the requirement	Incident	IN000005
<input type="checkbox"/> 12-Mar-2004	Ability to delete existing books in the system	Fred Bloggs	These two requirements are related	Requirement	RQ000006
<input type="checkbox"/> 4-Nov-2003	Cannot add a new book to the system	Joe P Smith	Test Run: Ability to create new book	Incident	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.

To create a new association, simply click the <Add> icon and then choose the type of artifact you want to create an association to:

Add New Association (Step 1 of 2)

Please choose the artifact that you want to add an association to:

Requirement Incident

Once you have selected the appropriate artifact type, you will then be able to choose the specific artifact you want to link to. In the case of requirements you choose the item from a hierarchical list-box, and in the case of incidents you can either enter the incident ID or choose from a list of incidents you have recently submitted. In either case you can also add a comment that explains the rationale for the association:

Add New Association (Step 2 of 2)

Please choose the requirement that you want to add an association to:

- Functional System Requirements
- Online Library Management System
- Book Management
- Ability to edit existing books in the system
- Ability to delete existing books in the system
- Ability to associate books with different subjects
- Ability to associate books with different authors
- Ability to associate books with different editions
- Ability to completely erase all books stored in the system with one click

Comment:

Add New Association (Step 2 of 2)

Please choose the incident that you want to add an association to:

Enter Incident #: IN

Add from history:

- Sample Risk 1
- Sample Risk 2
- Sample Risk 3
- Test Change Request

Comment:

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

5. Test Case Management

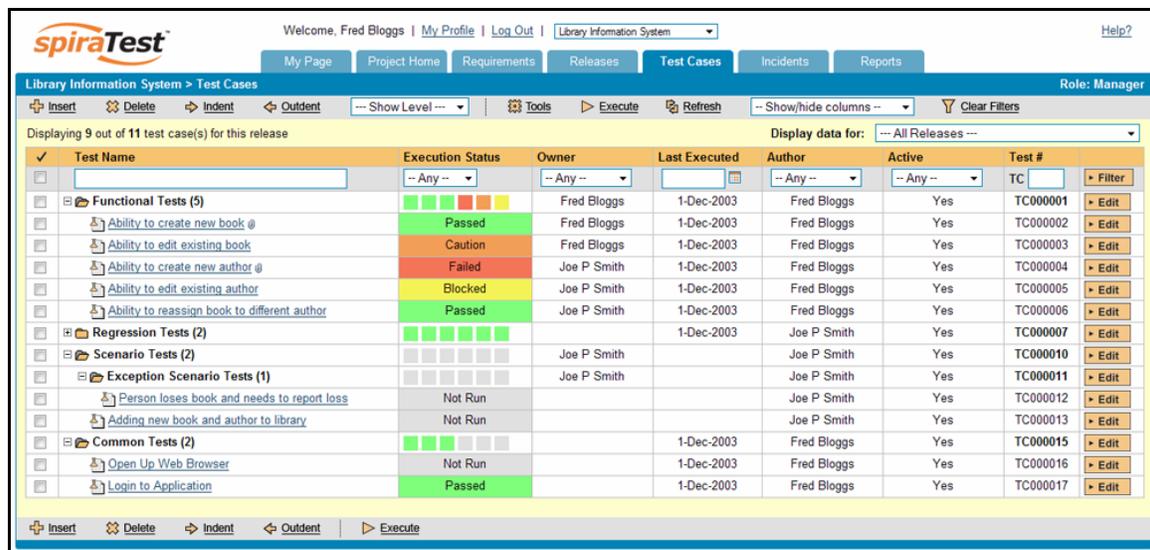
This section outlines how the use-case / test-case management features of SpiraTest™ can be used to develop the business use-cases for the system, which specify how the different pieces of functionality are expected to work in practice. In addition, these use/test-cases form the basis of the business 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 be 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

However when migrating existing projects into SpiraTest™, 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 “Test Cases” tab on the global navigation bar, you will initially be taken to the test case list screen illustrated below:



The screenshot shows the SpiraTest web application interface. At the top, there is a navigation bar with tabs for My Page, Project Home, Requirements, Releases, Test Cases (selected), Incidents, and Reports. Below the navigation bar, there is a toolbar with buttons for Insert, Delete, Indent, Outdent, Show Level, Tools, Execute, Refresh, Show/Hide columns, and Clear Filters. The main content area displays a table of test cases. The table has columns for Test Name, Execution Status, Owner, Last Executed, Author, Active, and Test #. The test cases are organized into folders: Functional Tests (5), Regression Tests (2), Scenario Tests (2), Exception Scenario Tests (1), and Common Tests (2). Each test case row includes a checkbox, a document icon, the test name, execution status (e.g., Passed, Caution, Failed, Blocked, Not Run), owner, last executed date, author, active flag, and test case number. There are also 'Edit' links for each test case.

Test Name	Execution Status	Owner	Last Executed	Author	Active	Test #
Functional Tests (5)		Fred Bloggs	1-Dec-2003	Fred Bloggs	Yes	TC000001
Ability to create new book @	Passed	Fred Bloggs	1-Dec-2003	Fred Bloggs	Yes	TC000002
Ability to edit existing book	Caution	Fred Bloggs	1-Dec-2003	Fred Bloggs	Yes	TC000003
Ability to create new author @	Failed	Joe P Smith	1-Dec-2003	Fred Bloggs	Yes	TC000004
Ability to edit existing author	Blocked	Joe P Smith	1-Dec-2003	Fred Bloggs	Yes	TC000005
Ability to reassign book to different author	Passed	Joe P Smith	1-Dec-2003	Fred Bloggs	Yes	TC000006
Regression Tests (2)		Joe P Smith	1-Dec-2003	Joe P Smith	Yes	TC000007
Scenario Tests (2)		Joe P Smith		Joe P Smith	Yes	TC000010
Exception Scenario Tests (1)		Joe P Smith		Joe P Smith	Yes	TC000011
Person loses book and needs to report loss	Not Run	Joe P Smith		Joe P Smith	Yes	TC000012
Adding new book and author to library	Not Run			Joe P Smith	Yes	TC000013
Common Tests (2)			1-Dec-2003	Fred Bloggs	Yes	TC000015
Open Up Web Browser	Not Run		1-Dec-2003	Fred Bloggs	Yes	TC000016
Login to Application	Passed		1-Dec-2003	Fred Bloggs	Yes	TC000017

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 block “LED-style” 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 have three green bars (50% passed) and three gray bars (50% not run). *Note: The number of bars has no relation to the number of tests.*

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 check-box has been selected, at the same level in the hierarchy. If you want to insert a new test case below an existing test case, you need to select the item below it. 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-indent 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.

5.1.3. 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 SpiraTest™ is explained in more detail in section 5.3.

5.1.4. 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.

5.1.5. Edit

Each test case/folder in the list has an <Edit> button display in its right-most column. When you click this button, 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. When you have

made your updates, you can either click <Update> to commit the changes, or <Cancel> to revert back to the original information.

5.1.6. Show Level

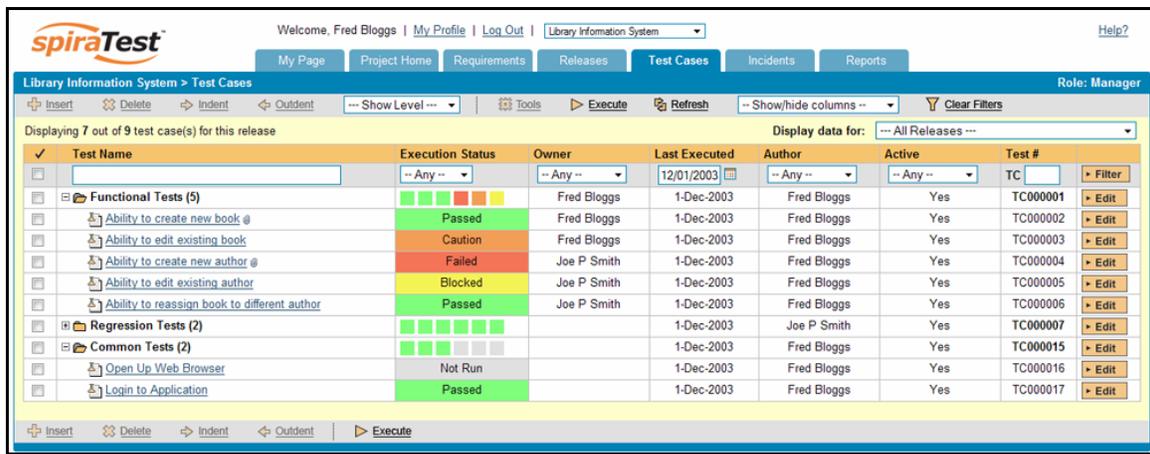
Choosing an indent level from the 'Show Level' drop down box allows you to quickly and easily view the entire test case list at a specific indent level. For example you may want to see all test cases drilled-down to the *third* level of detail. To do this you would simply choose 'Level 3' from the list,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

5.1.7. 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.

5.1.8. Filtering

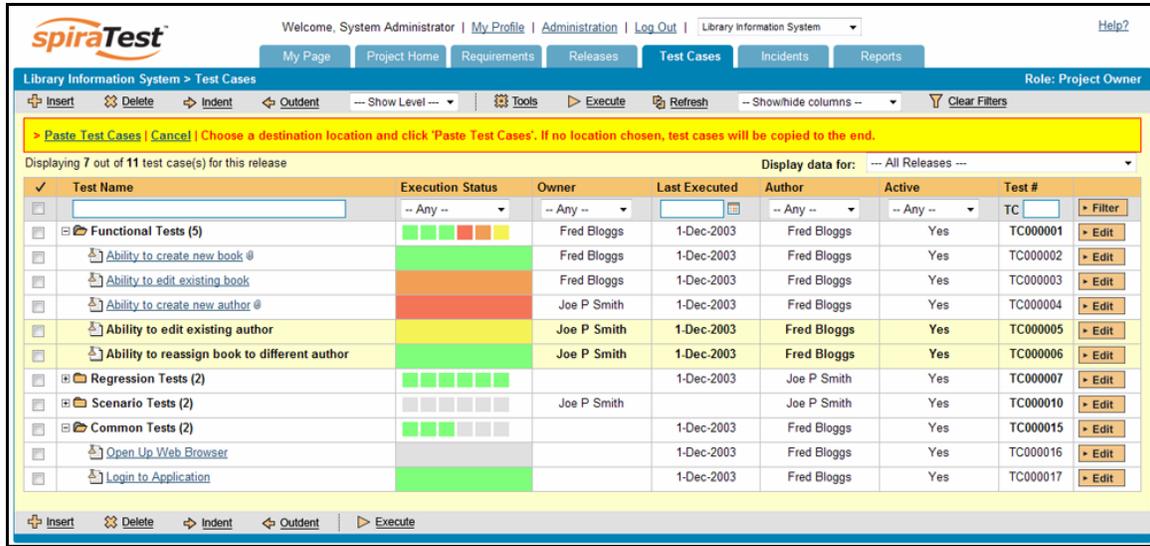
You can easily filter the list of test cases as illustrated in the screen-shot below:



To filter the list by any of the displayed columns, you either choose an item from the appropriate drop-down list or enter a free-text phrase (depending on the type of field) then click <Filter> 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 Execution Date = 01-Dec-2003.

5.1.9. Copying and Moving

To copy or move a test case or test folder, simply select the check-boxes of the test cases/folders you want to copy or move and then hover over the <Tools> icon and choose either the <Move> or <Copy> icons as appropriate. Upon clicking the icon, the rows you selected will be marked in bold with a light yellow background and the screen will prompt you to choose the destination for the copy/move:

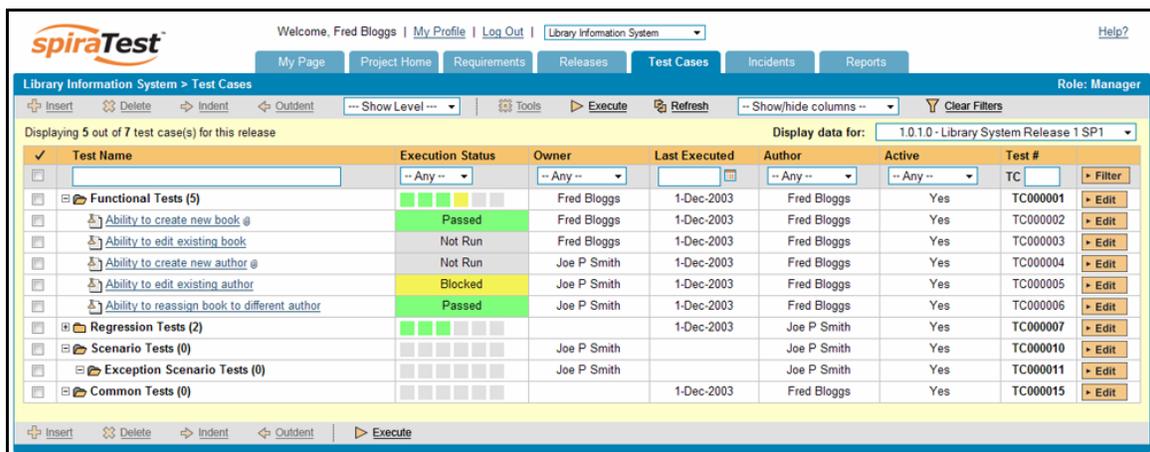


Choose the destination location for the copied/moved test cases/folders by selecting the checkbox of the test case/folder you want to copy/move in front of and then clicking the “Paste Test Cases” link. If you want to copy/move the test cases/folders to the *end of the list*, you just click the link *without* selecting a destination. To abort the copy or move, all you need to do is click the “Cancel” link and the operation will be aborted. Note that copied test cases/folders will also include the requirements coverage and test step information from the originals.

5.1.10. 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:



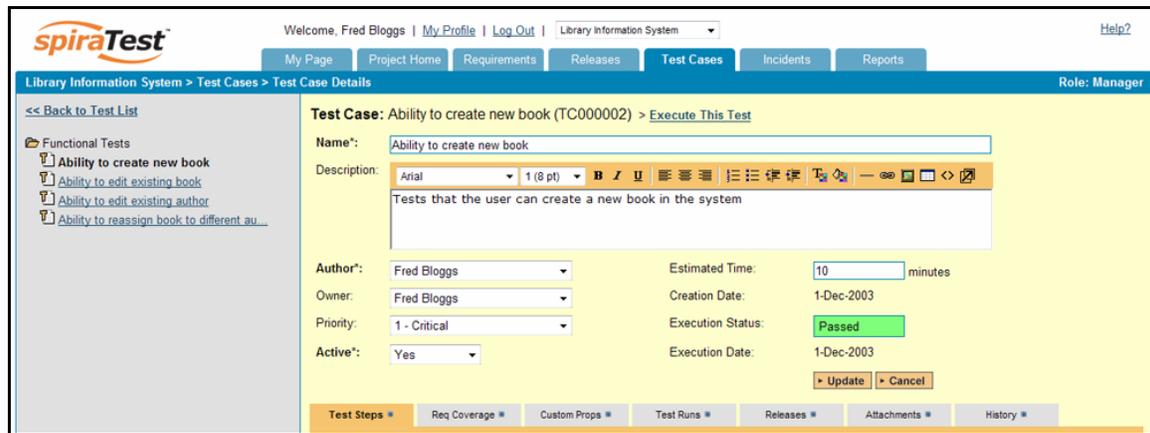
As illustrated in the example above, when the drop-down list is changed to select a specific release, the list of test cases is filtered to just those mapped to the release in question. In addition, the execution status for the test releases will only reflect test runs for that specific

release. 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 [Execute] icon will default the test run to the selected release.

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:



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 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 the <Update> button just below the fields to commit the changes.

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”, “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.

Step #	Test Step Description	Expected Result	Sample Data	Status
1	Call 'Login to Application' (TC17)	N/A	N/A	N/A
2	User clicks link to create book	User taken to first screen in wizard		Passed
3	User enters books name and author, then clicks Next	User taken to next screen in wizard	Macbeth, William Shakespeare	Passed
4	User chooses book's genre and sub-genre from list	User sees screen displaying all entered information	Play, Tragedy	Passed
5	User clicks submit button	Confirmation screen is displayed		Passed

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.

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. All test steps are displayed in “Edit” mode, so the description, expected result and sample data fields are editable, allowing you to enter the appropriate data (see section 5.2.7). In addition to the existing test steps, the system always displays five blank test steps so that it is easy and quick to enter large numbers of test steps. Upon entering up to five test steps and clicking the <Update> button, five new blank rows will be added at the bottom of the list.

5.2.1.2. Insert Link

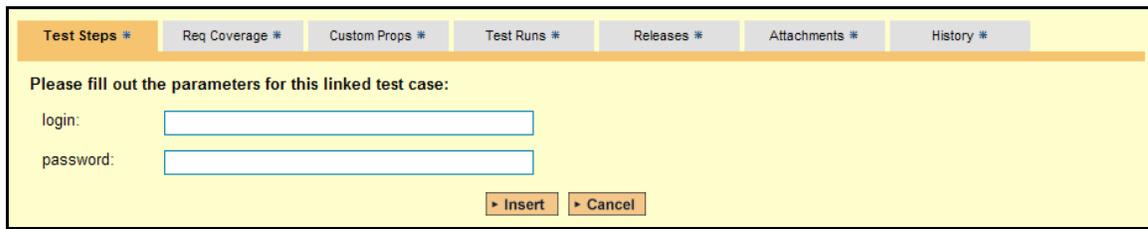
Clicking on the <Insert Link> button brings up the following panel that allows you to choose the test case to be inserted:

Test Steps * Req Coverage * Custom Props * Test Runs * Releases * Attachments * History *

Choose the test case to add as a link in the test step list:

- Functional Tests
 - Ability to edit existing book
 - Ability to edit existing author
 - Ability to reassign book to different author
- Regression Tests
 - Book management
 - Author management
- Scenario Tests
 - Exception Scenario Tests

You need to then select the name of the test case you want to insert as a link and click <Next>. If the test case has declared parameters (see the section on Parameters below for more details) you will be taken to the following screen:



The screenshot shows a software interface with a yellow background. At the top, there is a navigation bar with several tabs: "Test Steps *", "Req Coverage *", "Custom Props *", "Test Runs *", "Releases *", "Attachments *", and "History *". Below the navigation bar, the text reads "Please fill out the parameters for this linked test case:". There are two input fields: "login:" and "password:". At the bottom right of the form are two buttons: "Insert" and "Cancel".

You need to fill out the values of the parameters for the linked test case and then click the <Insert> 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. Move Up

Clicking on the <Move Up> button simply reorders the test step list so that the currently selected test step is one position higher up the list. Note: Attempting to move a test step above the top of the list will give a warning message.

5.2.1.5. Move Down

Clicking on the <Move Down> button simply reorders the test step list so that the currently selected test step is one position lower down the list. Note: Attempting to move a test step below the bottom of the list of existing test steps will give a warning message.

5.2.1.6. 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.

5.2.1.7. Update

Each test step in the list is always in an editable mode. When you click this button, you commit any changes made to the test step list. These changes consist of modifying an existing test step or entering a new test step in one of the five blank rows. The delete/insert/move-up/move-down operations on the other hand are committed immediately, and *do not* need to have the <Update> button clicked for them to take effect.

5.2.1.8. Cancel

If during the entry of new test steps or the modification of existing test steps, you want to revert back to the original information, click <Cancel> and your changes will be discarded.

5.2.1.9. 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:

Name	Default Value	Operations
login		Copy To Clipboard Delete
password		Copy To Clipboard Delete

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:

> [Create Requirement From This Test Case](#)

The requirements coverage box indicates the requirements that are currently mapped against the test case. To add requirements to this test case, choose from the list above and click [Add]. You can use the [Remove] and [Remove All] buttons to remove requirements that are no longer covered by the test case. Double-clicking on a covered requirement will take you to the requirement itself.

The main (right) pane consists of two lists of requirements, the one on the left being the hierarchical list of the requirements belonging to the project (the summary items are denoted by their gray color). The right box contains the list of requirements mapped to this test case. Double-clicking on items in this box will jump you to the requirements details screen for this requirement (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. 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.

Please edit the following custom properties of this artifact and click [Update] when finished:

URL:

Test Type:

Once you are satisfied with the values for the custom properties, simply click [Update] to commit the changes.

5.2.4. 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 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 5.4). In addition, you can choose to display any of the custom properties associated with the test run.

Execution Date	Release	Status	Est. Duration	Actual Duration	Web Browser	Operating System	Run #
12/1/2003 11:30:55 AM	1.0.1.0	Passed	10 minutes	90 minutes	Mozilla / Firefox	Windows 2000	TR000002
12/1/2003 10:50:20 AM	1.0.0.0	Failed	10 minutes	70 minutes	Opera	Windows 2003	TR000012
12/1/2003 10:45:20 AM	1.0.0.0	Failed	10 minutes	75 minutes	Internet Explorer	Windows XP	TR000001

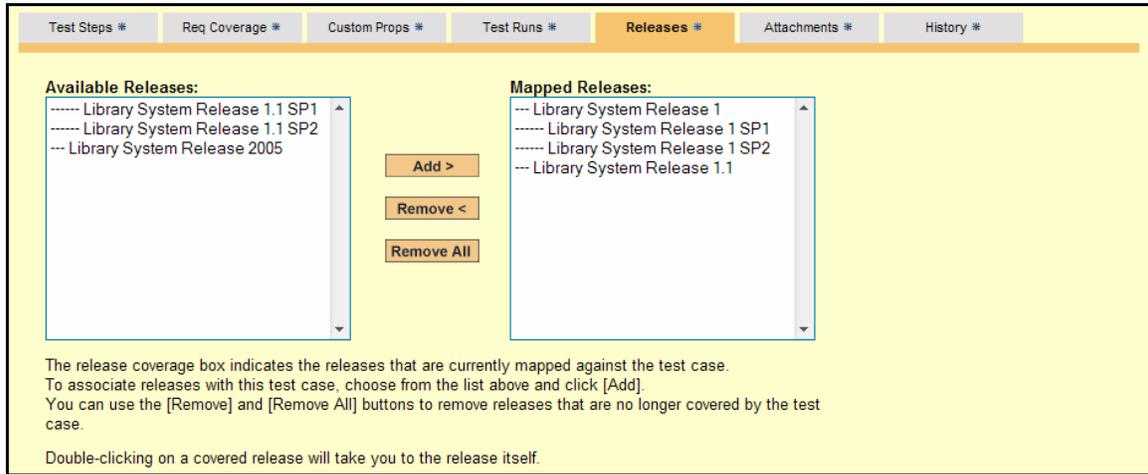
Customize columns: -- Show/hide columns --

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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.

5.2.5. Release Mapping

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



The release coverage box indicates the releases that are currently mapped against the test case. To associate releases with this test case, choose from the list above and click [Add]. You can use the [Remove] and [Remove All] buttons to remove releases that are no longer covered by the test case. Double-clicking on a covered release will take you to the release itself.

The release mapping section consists of two lists of releases, the one on the left being the list of the releases belonging to the project that are not currently mapped to the test case. The right box contains the list of releases currently mapped to this test case. Double-clicking on items in this box will jump you to the release details screen for this requirement (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.

5.2.6. 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 SpiraTest™ will only display the icon for certain known types.



Document Name	Size	Uploaded By	Upload Date	
 Sequence Diagram for Book Mgt.pdf	10 KB	Fred Bloggs	3-May-2006	Delete

Upload New Attachment

Filename: [Browse...](#)

Description:

[Upload](#)

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. To attach a new document to the test case, you need to

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 test case.

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.

5.2.7. View 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:

Change Date ▼	Field Name	Old Value	New Value	Changed By
5/2/2006 12:00:00 AM	Name	Need to create new book	Ability to create new book	Fred Bloggs
3/4/2005 12:00:00 AM	Owner		Fred Bloggs	Joe P Smith

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.

5.3. Execute Test Case(s)

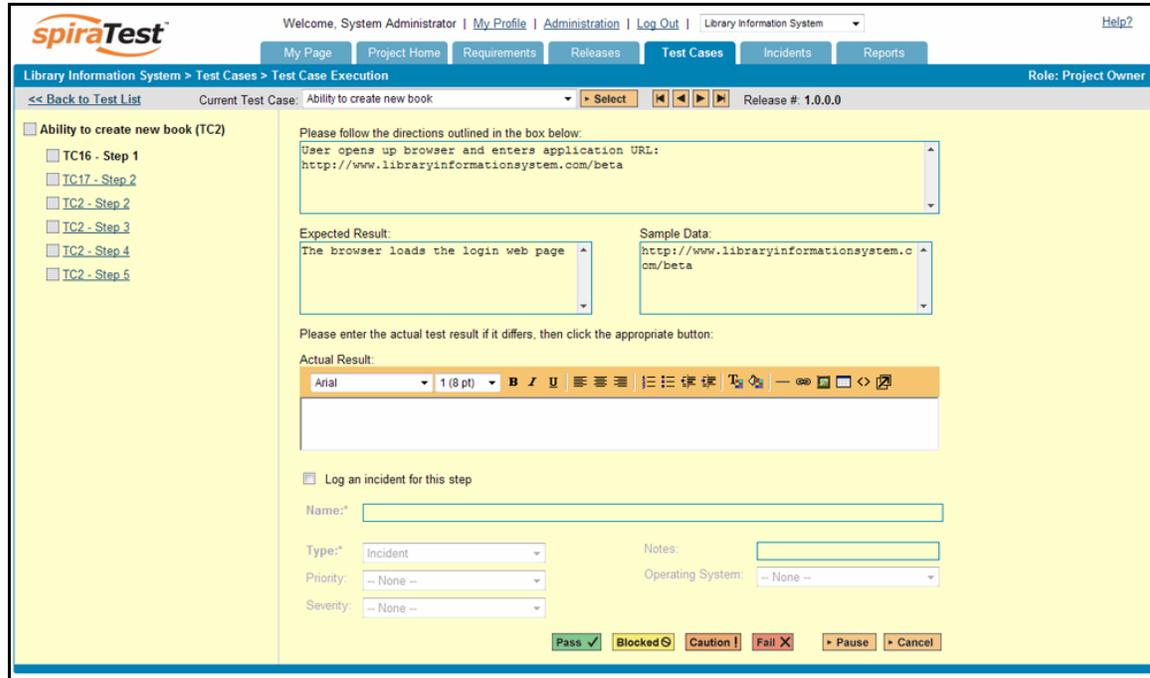
When you select test cases on the test case list page and click the <Execute> button, or click the "Execute" link on the test cases listed under My Tests on your personalized home page, you are launching the test execution module with the selected test cases. This section describes how a tester can follow 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).

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

Before actually executing the test scripts, you need to select the release 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.

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

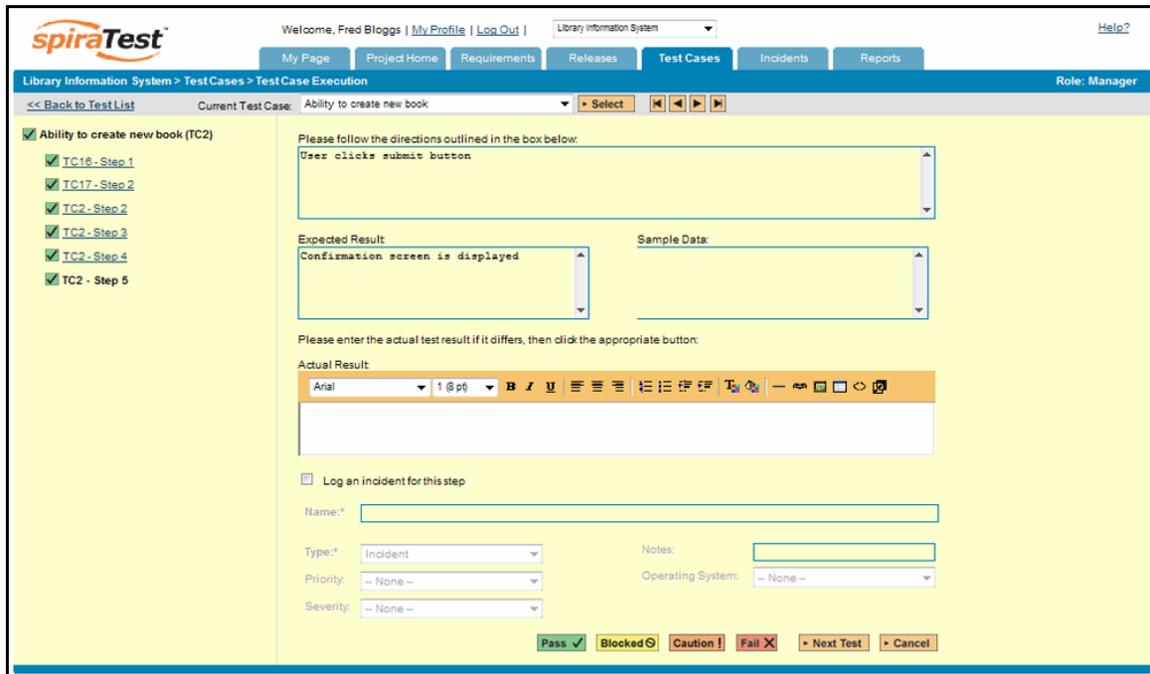


The screen is divided up into four main elements:

- The top navigation bar (with a gray background) contains a link back to the test case list together with the navigation that allows you to move between the different *test cases* being executed. You can either directly select the test case from the drop-down list and click <Select> or use the movement buttons (that look like the buttons on a music player); from left to right they: move to first, move to previous, move to next and move to last test case. Regardless of the method chosen, when the test case is changed, the list of test-steps available in the left hand pane is refreshed.
- The left-hand navigation pane contains the list of test steps for the currently executing test case. You can click on the test step link to move between the test steps in the current test case. In addition, each 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. The overall test case also has an execution status. 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 current test step for the current test case. As the tester you would 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.

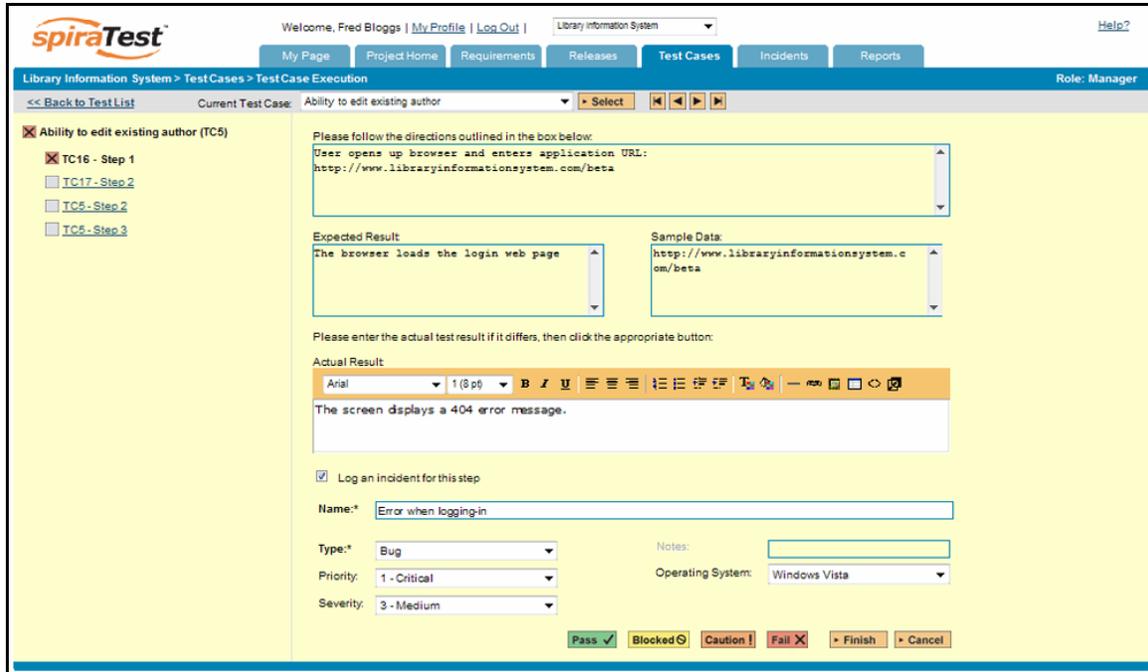
- There is also an optional section below the main pane that allows you to log an incident in the system associated with the test step. For failures this will typically be used to log a bug relating to the failure. However even if you pass a step you can still log an incident, which may be useful for logging non-critical cosmetic items that are not serious enough for a failure to be recorded.

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. This is illustrated in the screen shot below:



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 now have the option of moving to the next test step by clicking the <Next Test> button; 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:



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 an orange square. You will now have the option of moving to the next test step by clicking the <Next Test> button; 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 result in a new incident be automatically created. This is achieved by selecting the "Log an Incident for this step" checkbox and entering a name, type, priority, severity (and any custom properties) for the new incident. 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.

Note that the entire test run is not actually saved until the <Finish> button is clicked, so you can use the move forward/backward buttons to revisit previous test cases and/or test steps and make changes before saving the test run. If you need to step away from the computer for a period of time, to prevent your test-run from being lost due to your session timing-out, just click on the <Pause> button and the current state of the test run will be saved for you to complete at a later date. It can be completed by going to the "My Pending Test Runs" section of your 'My Page' and clicking <Resume> on the appropriate saved test run.

5.4. Test Run Details

As described in section 5.2.8, when you view the details of a test case, one of the views possible is to list all the test runs for that test case:

Execution Date	Release	Status	Est. Duration	Actual Duration	Web Browser	Operating System	Run #
12/1/2003 11:30:55 AM	1.0.1.0	Passed	10 minutes	90 minutes	Mozilla / Firefox	Windows 2000	TR000002
12/1/2003 10:50:20 AM	1.0.0.0	Failed	10 minutes	70 minutes	Opera	Windows 2003	TR000012
12/1/2003 10:45:20 AM	1.0.0.0	Failed	10 minutes	75 minutes	Internet Explorer	Windows XP	TR000001

Customize columns: -- Show/hide columns --

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

This page consists of three panes:

- The left hand navigation pane displays a list of the last fifteen (15) runs
- The main pane displays the details of the test run itself (name, description, estimated and actual duration, tester name, test run type, etc.)
- The tab-control displays the list of test run steps (populated if a manual run executed by a user), the stack trace (populated if an automated run executed by an automated testing tool such as NUnit, JUnit, etc.), and any custom properties set for the run.

5.4.1. 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.

Run Step #	Test Step Description	Expected Result	Sample Data	Actual Result	Status
RS000001	User logs in to application	User taken to main menu screen			Passed
RS000002	User clicks link to create book	User taken to first screen in wizard			Passed
RS000003	User enters books name and author, then clicks Next	User taken to next screen in wizard	Macbeth, William Shakespeare	An error page is displayed - "No such object or with block variable at line 473" View Incidents	Failed

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

Test Run Steps *		Stack Trace	Custom Properties *		
Run Step #	Test Step Description	Expected Result	Sample Data	Actual Result	Status
RS000001	User logs in to application	User taken to main menu screen			Passed
RS000002	User clicks link to create book	User taken to first screen in wizard			Passed
RS000003	User enters books name and author, then clicks Next	User taken to next screen in wizard	Macbeth, William Shakespeare	An error page is displayed - "No such object or with block variable at line 473" >View Incidents	Failed

Incidents List for Step: 3 (Test Run Step #: RS000003)

Incident #	Type	Status	Priority	Name	Owned By	Detected On	Detected By
IN000007	Bug	Assigned	1 - Critical	Cannot add a new book to the system	Joe P Smith	4-Nov-2003	Joe P Smith

[<< Hide Incident List](#)

Clicking on the link will change the background color of the test case to gray and display a list of all the associated test steps in a grid below the test step list. 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.

5.4.2. Stack Trace

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 Steps	Stack Trace *	Custom Properties *
Runner Name: NUnit	Assert Count: 1	
Message: Expected 1 but 2 was found	Test Name: _01_TestCreateBook	
Failure Details: <pre> Object variable or With block variable not set. Description: An unhandled exception occurred during the execution of the current web request. Please review the stack trace for more information about the error and where it originated in the code. Exception Details: System.NullReferenceException: Object variable or With block variable not set. Source Error: Line 215: Response.Write("<option selected value="" & MonthCheck(MonthCount) & """" & MonthCount & "</option>" & vbCrLf) Line 216: Else Line 217: Response.Write("<option value="" & MonthCheck(MonthCount) & """" & MonthCount & "</option>" & vbCrLf) Line 218: End If Line 219: </pre>		

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

5.4.3. 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 * Stack Trace **Custom Properties ***

Please edit the following custom properties of this artifact and click [Update] when finished:

Notes:

Web Browser:

Operating System:

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, web-browser.

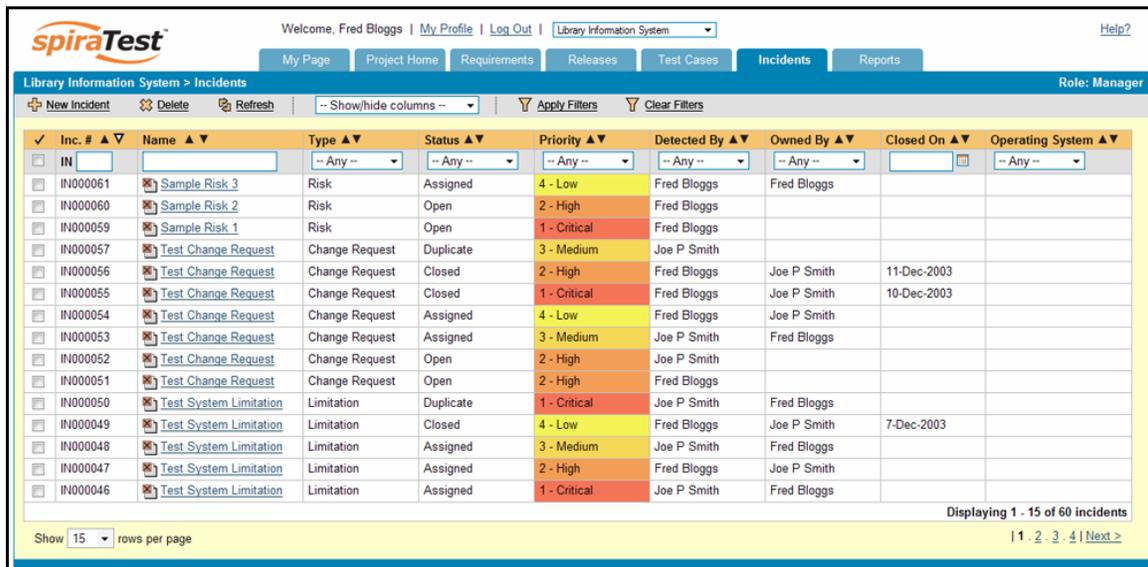
6. Incident Tracking

This section outlines how the incident/defect tracking features of SpiraTest™ 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 “Incidents” tab on the global navigation bar, you will initially be taken to the incidents list screen illustrated below:



Inc. #	Name	Type	Status	Priority	Detected By	Owned By	Closed On	Operating System
IN000061	Sample Risk 3	Risk	Assigned	4 - Low	Fred Bloggs	Fred Bloggs		
IN000060	Sample Risk 2	Risk	Open	2 - High	Fred Bloggs			
IN000059	Sample Risk 1	Risk	Open	1 - Critical	Fred Bloggs			
IN000057	Test Change Request	Change Request	Duplicate	3 - Medium	Joe P Smith			
IN000056	Test Change Request	Change Request	Closed	2 - High	Fred Bloggs	Joe P Smith	11-Dec-2003	
IN000055	Test Change Request	Change Request	Closed	1 - Critical	Fred Bloggs	Joe P Smith	10-Dec-2003	
IN000054	Test Change Request	Change Request	Assigned	4 - Low	Fred Bloggs	Joe P Smith		
IN000053	Test Change Request	Change Request	Assigned	3 - Medium	Joe P Smith	Fred Bloggs		
IN000052	Test Change Request	Change Request	Open	2 - High	Joe P Smith			
IN000051	Test Change Request	Change Request	Open	2 - High	Fred Bloggs			
IN000050	Test System Limitation	Limitation	Duplicate	1 - Critical	Joe P Smith	Fred Bloggs		
IN000049	Test System Limitation	Limitation	Closed	4 - Low	Fred Bloggs	Joe P Smith	7-Dec-2003	
IN000048	Test System Limitation	Limitation	Assigned	3 - Medium	Joe P Smith	Fred Bloggs		
IN000047	Test System Limitation	Limitation	Assigned	2 - High	Fred Bloggs	Joe P Smith		
IN000046	Test System Limitation	Limitation	Assigned	1 - Critical	Joe P Smith	Fred Bloggs		

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 ten 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:



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 <Apply Filters> 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. In the screen-shot above, we are filtering on type=bug and sorting by decreasing priority.

Clicking on the <Clear Filters> button removes any set filters and expands the incident list to display all incidents for the current project.

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.

6.2. 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:

The screenshot shows the SpiraTest web application interface. At the top, there is a navigation bar with tabs for 'My Page', 'Project Home', 'Requirements', 'Releases', 'Test Cases', 'Incidents', and 'Reports'. The 'Incidents' tab is selected. Below the navigation bar, there is a breadcrumb trail: 'Library Information System > Incidents > Incident Details'. The main content area is yellow and contains the following fields:

- Name: Cannot add a new book to the system
- Type: Bug
- Status: Duplicate
- Test Run Step #: [None]
- Priority: -- None --
- Severity: -- None --
- Closed On: (m/d/yyyy)
- Detected By: Fred Bloggs
- Detected In Release: -- None --
- Resolved In Release: -- None --
- Verified In Release: -- None --
- Owned By: Fred Bloggs
- Detected On: 11/15/2003 12:00:00 AM
- Last Modified: 12/1/2003 12:00:00 AM

At the bottom of the main content area, there are tabs for 'General', 'Custom Properties', 'Attachments', 'History', and 'Associations'. The 'General' tab is selected.

This page is made up of two areas; the top navigation bar (with the gray background) that allows you move between incidents, and the main pane (yellow background) that contains the details of the incident in question.

The navigation bar allows you to move within the list of incidents that were displayed in the incident list page, without having to go back to that page. So, if the incident list page contained a list of all bugs sorted by priority, the buttons on this navigation would allow you to cycle between the different bugs, in order of priority. If you want to view incidents that are outside this filtered list, or want to change the way they are sorted, you need to click the “Back to Incident List” hyperlink and change the filter/sort on the incident list page.

You can either enter a specific incident number in the text-box and click the <Find> button, or simply click one of the four movement buttons (move first, move previous, move next and move last) to cycle to a different incident in the list.

In addition, the lower section of the incident details page can be switched between four different views: “General”, “Custom Properties”, “Attachments”, “History”, and “Associations”. These are described separately below.

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 *SpiraTest Administration Guide* for details on configuring the incident workflows to meet their needs.

Once you’ve made the changes to the appropriate incident fields, you can either click <Update> to commit the changes or <Cancel> to discard the changes and return back to the incident list.

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 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 *SpiraTest 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 <Insert> to commit the new item or <Cancel> to discard the insertion and return back to the incident list.

6.2.3. General

In this mode, the lower section of the screen displays the detailed description of the incident together with any recorded resolution:

The screenshot shows the 'General' tab of an incident management interface. It features two rich text editors. The first, labeled 'Description:', contains the text: "When I click on the button to add a book, enter the new information and click submit, I get a subscript out of range error". The second, labeled 'Resolution:', is currently empty. Both editors have a toolbar with options for font (Arial), size (1 (8 pt)), bold, italic, underline, list, link, unlink, and other formatting tools. At the bottom right, there are 'Update' and 'Cancel' buttons.

The latter text-box is optional for certain stages of the incident workflow and can be used to enter guidance to the development team, suggestions for resolving the bug/issue, etc.

6.2.4. Custom Properties

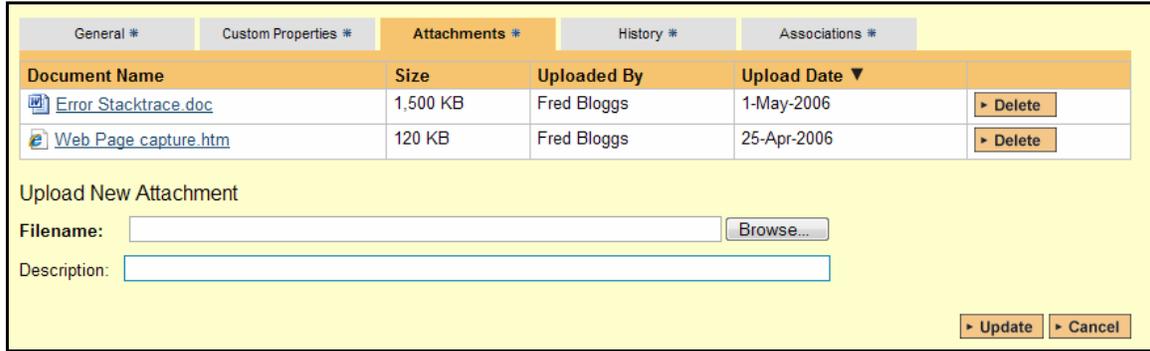
In this mode, the main pane displays any custom properties that the project owner has defined for incidents. To learn more about how to setup and configure custom properties for a project, please refer to the *SpiraTest Administration Guide*. Assuming that custom properties have been defined for your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

The screenshot shows the 'Custom Properties' tab of an incident management interface. It displays a list of custom properties to be edited. The 'Notes' property is a text box containing the text: "May be an array bounds issue". The 'Operating System' property is a dropdown menu currently set to "Windows XP". At the bottom right, there are 'Update' and 'Cancel' buttons.

Once you are satisfied with the values for the custom properties, simply click [Update] to commit the changes.

6.2.5. Attachments

In this mode, the lower section of the screen displays the list of documents that have been “attached” to the incident. The documents can be in any format, though SpiraTest™ will only display the icon for certain known types.



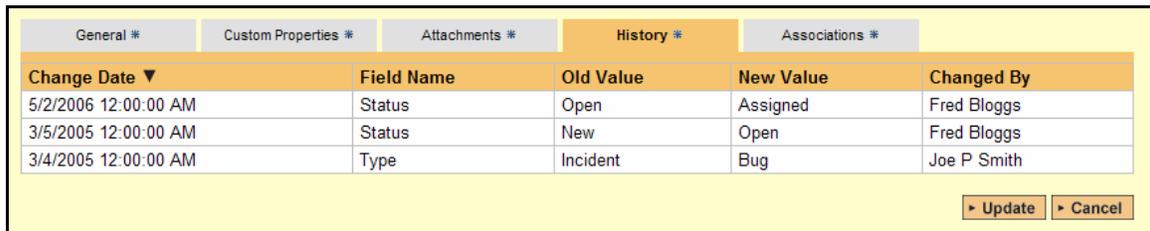
The attachment list includes the filename that was originally uploaded together with the file-size (in KB), name of the person who attached it and the date uploaded. In addition, if you position the pointer over the filename and hold it there for a few seconds, a detailed description is displayed as 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 an incident, simply click the <Delete> button and the attachment will be removed from the list. To attach a new document to the incident, you need to click the Browse button and select the file from your local computer, optionally enter a detailed description then click the <Update> button. The document will be copied from your computer and attached to the incident.

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.

6.2.6. 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:



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.

6.2.7. Associations

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

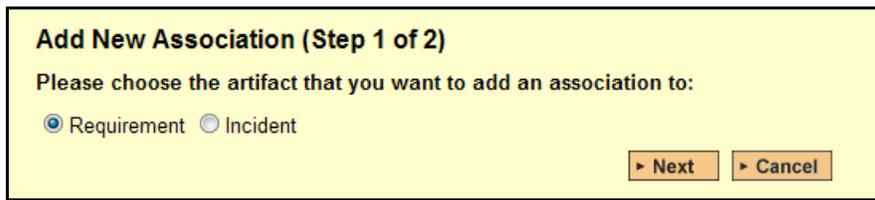


✓	Date	Artifact Name	Created By	Comment	Artifact Type	Artifact #
<input type="checkbox"/>	19-Mar-2004	Ability to associate books with different editions	Joe P Smith		Requirement	RQ000009
<input type="checkbox"/>	17-Mar-2004	The book listing screen doesn't sort	Joe P Smith		Incident	IN000006
<input type="checkbox"/>	1-Dec-2003	Ability to add new books to the system	Fred Bloggs	Test Run: Ability to create new book	Requirement	RQ000004

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, 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.

To create a new association, simply click the <Add> icon and then choose the type of artifact you want to create an association to:

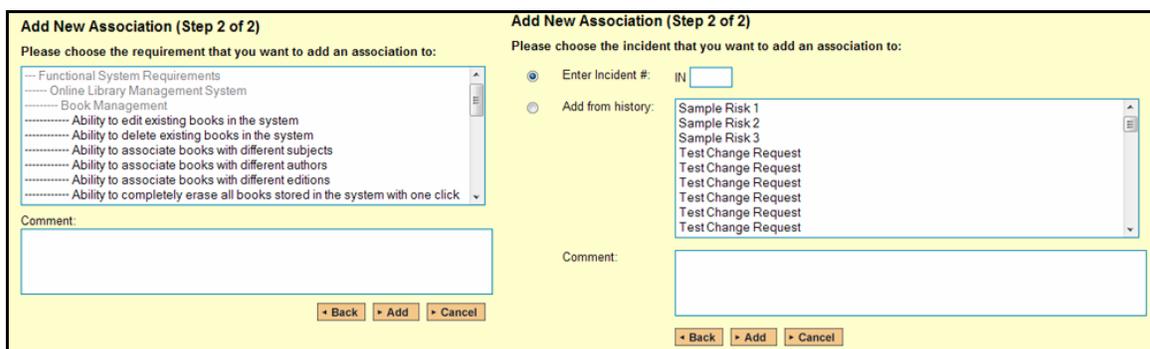


Add New Association (Step 1 of 2)

Please choose the artifact that you want to add an association to:

Requirement Incident

Once you have selected the appropriate artifact type, you will then be able to choose the specific artifact you want to link to. In the case of requirements you choose the item from a hierarchical list-box, and in the case of incidents you can either enter the incident ID or choose from a list of incidents you have recently submitted. In either case you can also add a comment that explains the rationale for the association:



Add New Association (Step 2 of 2)

Please choose the requirement that you want to add an association to:

- Functional System Requirements
- Online Library Management System
 - Book Management
 - Ability to edit existing books in the system
 - Ability to delete existing books in the system
 - Ability to associate books with different subjects
 - Ability to associate books with different authors
 - Ability to associate books with different editions
 - Ability to completely erase all books stored in the system with one click

Comment:

Add New Association (Step 2 of 2)

Please choose the incident that you want to add an association to:

Enter Incident #: IN

Add from history:

- Sample Risk 1
- Sample Risk 2
- Sample Risk 3
- Test Change Request

Comment:

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

7. Release Management

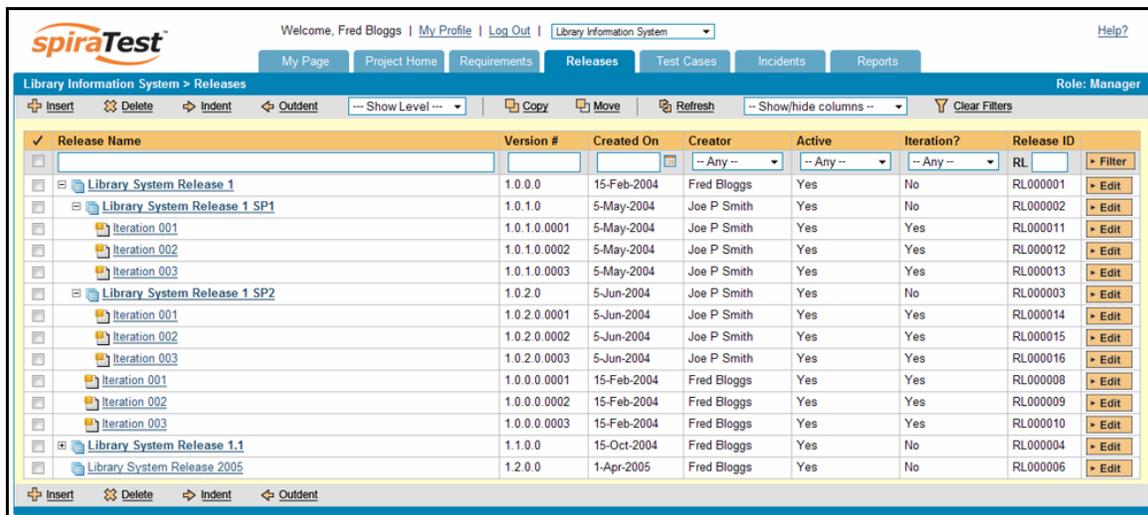
This section outlines how to use the Release Management features of SpiraTest™ to manage different versions of the system being tested in a particular project. This is an optional feature of the system, and you can manage the testing for a project successfully without tracking individual releases. Typically 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 SpiraTest™ - 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. In future versions of SpiraTest™ it will be possible to different types of reporting depending on whether you are looking at a Release or Iteration.

7.1. Release List

When you click on the “Releases” tab on the global navigation bar, you will initially be taken to the release list screen illustrated below:



The screenshot shows the SpiraTest web application interface. At the top, there is a navigation bar with the SpiraTest logo and user information: "Welcome, Fred Bloggs | My Profile | Log Out | Library Information System". Below this is a secondary navigation bar with tabs: "My Page", "Project Home", "Requirements", "Releases", "Test Cases", "Incidents", and "Reports". The "Releases" tab is selected. Below the navigation is a toolbar with buttons: "Insert", "Delete", "Indent", "Outdent", "Copy", "Move", "Refresh", and "Clear Filters". The main content area is a table titled "Release List" with the following columns: "Release Name", "Version #", "Created On", "Creator", "Active", "Iteration?", and "Release ID". The table contains several rows of data, including major releases and their associated iterations.

Release Name	Version #	Created On	Creator	Active	Iteration?	Release ID
Library System Release 1	1.0.0.0	15-Feb-2004	Fred Bloggs	Yes	No	RL000001
Library System Release 1 SP1	1.0.1.0	5-May-2004	Joe P Smith	Yes	No	RL000002
Iteration 001	1.0.1.0.0001	5-May-2004	Joe P Smith	Yes	Yes	RL000011
Iteration 002	1.0.1.0.0002	5-May-2004	Joe P Smith	Yes	Yes	RL000012
Iteration 003	1.0.1.0.0003	5-May-2004	Joe P Smith	Yes	Yes	RL000013
Library System Release 1 SP2	1.0.2.0	5-Jun-2004	Joe P Smith	Yes	No	RL000003
Iteration 001	1.0.2.0.0001	5-Jun-2004	Joe P Smith	Yes	Yes	RL000014
Iteration 002	1.0.2.0.0002	5-Jun-2004	Joe P Smith	Yes	Yes	RL000015
Iteration 003	1.0.2.0.0003	5-Jun-2004	Joe P Smith	Yes	Yes	RL000016
Iteration 001	1.0.0.0.0001	15-Feb-2004	Fred Bloggs	Yes	Yes	RL000008
Iteration 002	1.0.0.0.0002	15-Feb-2004	Fred Bloggs	Yes	Yes	RL000009
Iteration 003	1.0.0.0.0003	15-Feb-2004	Fred Bloggs	Yes	Yes	RL000010
Library System Release 1.1	1.1.0.0	15-Oct-2004	Fred Bloggs	Yes	No	RL000004
Library System Release 2005	1.2.0.0	1-Apr-2005	Fred Bloggs	Yes	No	RL000006

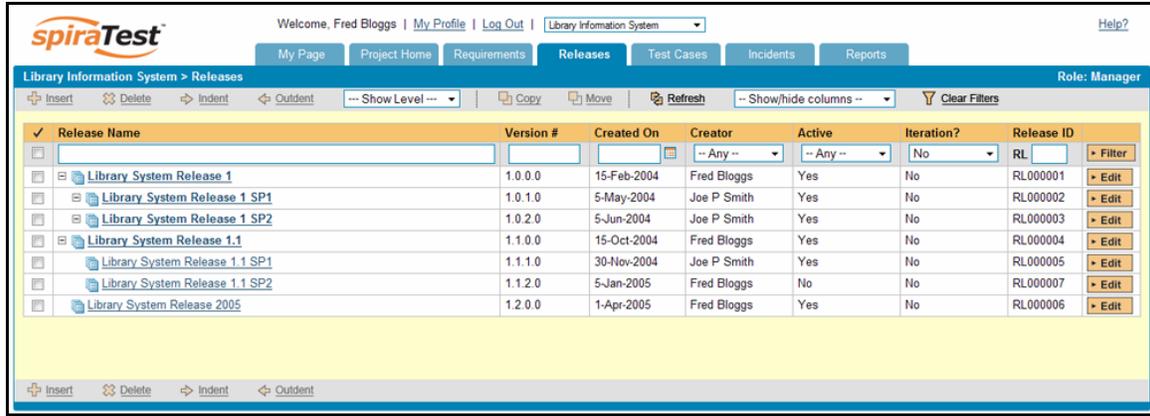
The release list will contain all the releases and iterations associated with current project. When you create a new project, this list will initially be empty, and you will have to use the <Insert> button to start adding releases and iterations to the project. The hierarchical organization of releases 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 date that the release was first created, the name of the creator of the release, the release number, and a set of custom properties defined by the project owner. Clicking on a

release's hyperlink will take you to the release details page for the item in question (see section 7.2). Note: Unlike requirements, both the parent and child items are linked to details pages.

7.1.1. Filtering

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



To filter the list by any of the displayed columns, you either choose an item from the appropriate drop-down list or enter a free-text phrase (depending on the type of field) then click <Filter> 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.

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 selected 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: if the item is expanded and the children are visible, the children are simply made children of the item above it in the list, however if the item is not expanded and the children are hidden, then the children are all deleted. This behavior is similar to that found in project planning tools like Microsoft Project®.

In addition, if all the children are deleted from a summary item, it changes *back* into a detail item. Any test runs or incidents that were associated with a deleted release are *not* themselves deleted, but the relationship between them is lost.

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-indent 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.

7.1.4. 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.

7.1.5. Edit

Each release in the list has an <Edit> button display in its right-most column. When you click this button, 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. When you have made your updates, you can either click <Update> to commit the changes, or <Cancel> to revert back to the original information.

7.1.6. Show Level

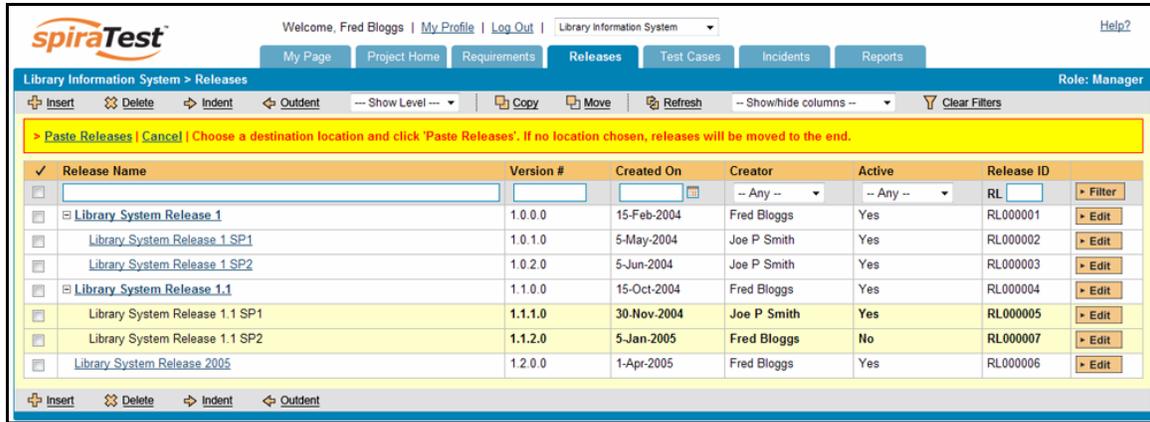
Choosing an indent level from the ‘Show Level’ drop down box allows you to quickly and easily view the entire release list at a specific indent level. For example you may want to see all releases drilled-down to the *third* level of detail. To do this you would simply choose ‘Level 3’ from the list,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

7.1.7. 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.

4.1.10. Copying and Moving

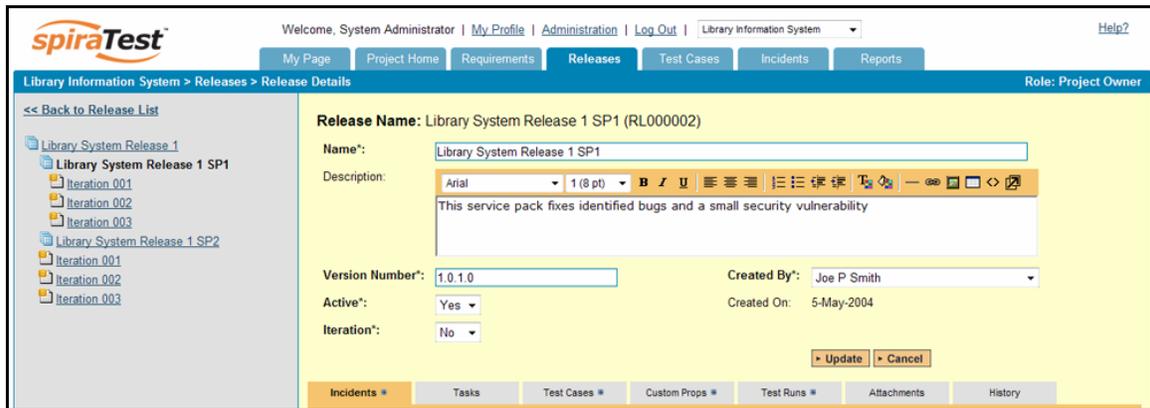
To copy or move a release or set of releases, simply select the check-boxes of the releases you want to copy or move and then click either <Copy> or <Move> as appropriate. Upon clicking the button, the rows you selected will be marked in bold with a light yellow background and the screen will prompt you to choose the destination for the copy/move:



Choose the destination location for the copied / moved releases by selecting the checkbox of the release you want to copy/move in front of and then clicking the “Paste Releases” link. If you want to copy/move the releases to the *end of the list*, you just click the link *without* selecting a destination. To abort the copy or move, all you need to do is click the “Cancel” link and the operation will be aborted. Note that copied releases will also include the test mapping information from the originals.

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:



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 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 the <Update> button just below the fields to commit the changes.

The lower part of the right pane can be in one of six possible modes that can be selected: “Incidents”, “Tasks”, “Test Cases”, “Custom Properties”, “Test Runs”, “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):

Incidents *								
Display List of Incidents:								
Incident #	Name	Type	Status	Priority	Owned By	Detected On	Detected By	Detected in This Release
IN000007	Cannot add a new book to the system	Bug	Assigned	1 - Critical	Joe P Smith	4-Nov-2003	Joe P Smith	
IN000002	Not able to add new author	Incident	New			1-Nov-2003	Joe P Smith	
IN000001	Cannot log into the application	Incident	New			1-Nov-2003	Fred Bloggs	
								Displaying 1 - 3 of 3 incidents
Show 15 rows per page								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.

7.2.2. Tasks

In this mode, the lower part of the right pane displays the list of project tasks that need to be completed for the release/iteration to be completed:

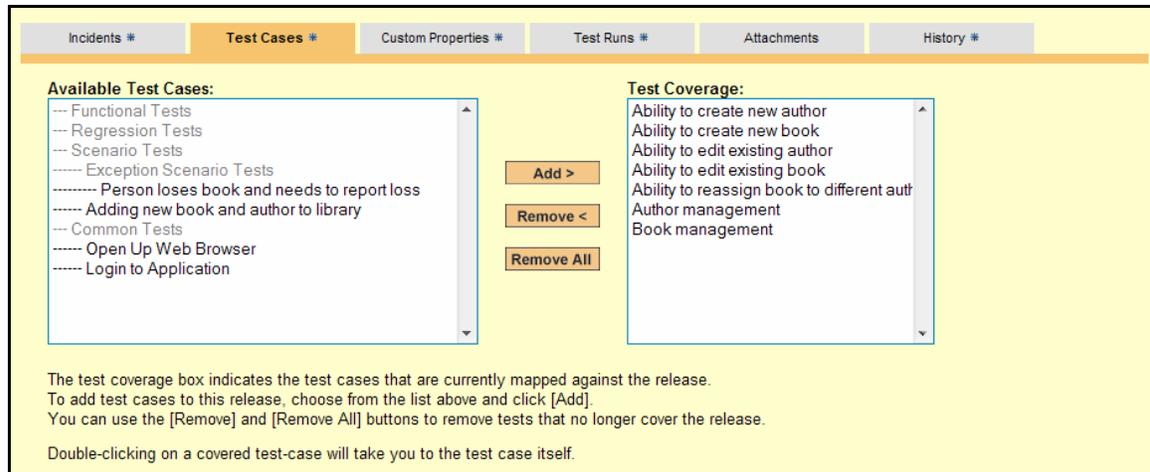
Tasks *								
Task Name	Status	Priority	Start Date	End Date	Owned By	Task #		
<input type="checkbox"/> Develop new book entry screen	Completed	1 - Critical	1-Mar-2004	2-Mar-2004	Fred Bloggs	TK000001		
<input type="checkbox"/> Create book object insert method	Completed	1 - Critical	1-Mar-2004	2-Mar-2004	Fred Bloggs	TK000002		
<input type="checkbox"/> Write book object insert queries	Completed	1 - Critical	1-Mar-2004	2-Mar-2004	Fred Bloggs	TK000003		
<input type="checkbox"/> Develop edit book details screen	Completed	1 - Critical	3-Mar-2004	4-Mar-2004	Fred Bloggs	TK000004		
<input type="checkbox"/> Create book object update method	Completed	1 - Critical	3-Mar-2004	4-Mar-2004	Joe P Smith	TK000005		
<input type="checkbox"/> Write book object update queries	Completed	1 - Critical	3-Mar-2004	4-Mar-2004	Joe P Smith	TK000006		

Each of the tasks is displayed together with its name, description (by hovering the mouse over the name), completion status, priority, start-date, end-date (i.e. due-date), current owner and numeric task identifier. Clicking on the task name will bring up the Task Details page which is described in more detail in section 7.3. This allows you to edit the details of an existing task.

To add a new task to the release, you first need to locate the requirement that the task relates to, create the new task there (see section 4.2.2) and then associate the task with the appropriate release. This is necessary because all tasks are required to be associated with a particular requirement before they can be assigned to a release/iteration. To remove a task from a release/iteration, simply check the box next to its name and click the <Remove> icon. Note: This doesn't delete the task, but instead just removes its association with the release. To permanently delete the task you need to use the task delete option on the requirements details page.

7.2.3. Test Case Mapping

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



The screenshot shows a web interface with a navigation bar at the top containing tabs for Incidents #, Test Cases # (selected), Custom Properties #, Test Runs #, Attachments, and History #. Below the navigation bar, there are two main sections: 'Available Test Cases:' and 'Test Coverage:'. The 'Available Test Cases:' list includes: Functional Tests, Regression Tests, Scenario Tests, Exception Scenario Tests, Person loses book and needs to report loss, Adding new book and author to library, Common Tests, Open Up Web Browser, and Login to Application. The 'Test Coverage:' list includes: Ability to create new author, Ability to create new book, Ability to edit existing author, Ability to edit existing book, Ability to reassign book to different auth, Author management, and Book management. Between these two lists are three buttons: 'Add >', 'Remove <', and 'Remove All'. Below the lists, there is explanatory text: 'The test coverage box indicates the test cases that are currently mapped against the release. To add test cases to this release, 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 release. Double-clicking on a covered test-case will take you to the test case itself.'

The test case mapping section consists of two lists of test cases, the one on the left being the hierarchical list of the test cases belonging to the project that are not currently mapped to this release. The right box contains the list of test cases currently mapped to this release. Double-clicking on items in this box will jump you to the test case details screen for this requirement (see section 5.2).

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.

7.2.4. 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 * Test Cases * **Custom Properties *** Test Runs * Attachments History *

Please edit the following custom properties of this artifact and click [Update] when finished:

Notes:

Operating System:

Once you are satisfied with the values for the custom properties, simply click [Update] to commit the changes.

7.2.5. 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 overall execution status for the test case in that run and a link to the actual test run details (see section 5.4). In addition, you can choose to display any of the custom properties associated with the test run.

Incidents * Test Cases * Custom Properties * **Test Runs *** Attachments History *

Execution Date	Release	Status	Est. Duration	Actual Duration	Web Browser	Operating System	Run #
12/1/2003 11:50:55 AM	1.0.0.0	Caution	5 minutes	50 minutes			TR000010
12/1/2003 11:30:55 AM	1.0.0.0	Passed	5 minutes	90 minutes			TR000003
12/1/2003 10:50:20 AM	1.0.0.0	Failed	10 minutes	70 minutes	Opera	Windows 2003	TR000012
12/1/2003 10:45:20 AM	1.0.0.0	Failed	10 minutes	75 minutes	Internet Explorer	Windows XP	TR000001

Customize columns: -- Show/hide columns -- | 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.

7.2.6. 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 SpiraTest™ will only display the icon for certain known types.

Incidents * Test Cases * Custom Properties * Test Runs * **Attachments** History *

Document Name	Size	Uploaded By	Upload Date ▼	
 StaticMappings.xml	4 KB	Fred Bloggs	6-Dec-2007	<input type="button" value="Delete"/>

Upload New Attachment

Filename:

Description:

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 release, simply click the <Delete> button and the attachment will be removed from the list. To attach a new document to the release, you need to 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 release.

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.

7.2.7. 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:

Change Date ▼	Field Name	Old Value	New Value	Changed By
5/2/2006 12:00:00 AM	Name	Library System v1.0.0	Library System Release 1	Fred Bloggs
3/4/2005 12:00:00 AM	Version Number	1.0.0	1.0.0.0	Joe P Smith

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.

7.3. Task Details

When you click on a task item in the task lists displayed on either the requirement or release details pages, you are taken to the task details page illustrated below:

The screenshot shows the SpiraTest interface. At the top, there's a navigation bar with 'My Page', 'Project Home', 'Requirements', 'Releases', 'Test Cases', 'Incidents', and 'Reports'. Below this, the 'Task Details' page is displayed for the task 'Develop new book entry screen (TK000001)'. The left pane shows a tree view under 'Iteration 001' with several task items. The main area contains the following details:

- Name:** Develop new book entry screen
- Description:** Create a new dynamic page that allows the user to enter the details of a new book
- Priority:** 1 - Critical
- Owner:** Fred Bloggs
- Requirement:** Ability to add new books to the sys
- Release / Iteration:** 1.0.0.0.0001 - Iteration 001
- Last Updated:** 12/1/2003 12:00:00 AM
- Created On:** 12/1/2003 12:00:00 AM

At the bottom, there are tabs for 'General', 'Custom Properties', 'Attachments', and '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 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 tasks in the current release/iteration or requirement (the view will depend on whether you came to this page from a release/iteration or a requirement). This latter list is useful as a navigation shortcut; you can quickly view all the tasks in a release / iteration / requirement by

clicking on the navigation links without having to first return to the parent artifact's details page first.

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, priority, associated requirement, release, iteration, etc.) and once you are satisfied with them, simply click the <Update> button just below the fields to commit the changes.

The lower part of the right pane can be in one of four possible modes that can be selected: "General", "Custom Properties", "Attachments", and "History". Each of the different views is described separately below.

7.3.1. General

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 and actual effort, and the completion status / percentage.

The screenshot shows the 'General' tab selected in a task details pane. The pane has a yellow background and a navigation bar at the top with four tabs: 'General *', 'Custom Properties', 'Attachments', and 'History'. Below the tabs, there are several input fields: 'Start Date' with a date picker showing '3/1/2004', 'End Date' with a date picker showing '3/2/2004', '% Complete:*' with a text input '100' and a '%' sign, 'Status:*' with a dropdown menu showing 'Completed', 'Estimated Effort' with two text inputs '8' and '0' followed by 'hours' and 'minutes', and 'Actual Effort' with two text inputs '7' and '20' followed by 'hours' and 'minutes'. At the bottom right, there are two buttons: 'Update' and 'Cancel'.

Once you are satisfied with the changes, you can click <Update> to commit the changes.

7.3.2. 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 Comments and/or the project track that the task is associated with.

The screenshot shows the 'Custom Properties' tab selected in a task details pane. The pane has a yellow background and a navigation bar at the top with four tabs: 'General *', 'Custom Properties *', 'Attachments', and 'History'. Below the tabs, there is a text prompt: 'Please edit the following custom properties of this artifact and click [Update] when finished:'. There are two input fields: 'Comments' with a large text area, and 'Track' with a dropdown menu showing 'Infrastructure'. At the bottom right, there are two buttons: 'Update' and 'Cancel'.

Once you are satisfied with the values for the custom properties, simply click [Update] to commit the changes.

7.3.3. 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 SpiraTest™ will only display the icon for certain known types.

Document Name	Size	Uploaded By	Upload Date ▼	
Customers.xls	163 KB	System Administrator	26-Feb-2008	Delete

Upload New Attachment

Filename: [Browse...](#)

Description:

[Upload](#)

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 task, simply click the <Delete> button and the attachment will be removed from the list. To attach a new document to the task, you need to 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 task.

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.

7.3.4. 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:

Change Date ▼	Field Name	Old Value	New Value	Changed By
2/26/2008 12:49:04 PM	Release Id	9	8	System Administrator
2/26/2008 12:48:59 PM	Release Id	8	9	System Administrator
2/26/2008 12:48:51 PM	Task Priority	1 - Critical	2 - High	System Administrator

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.

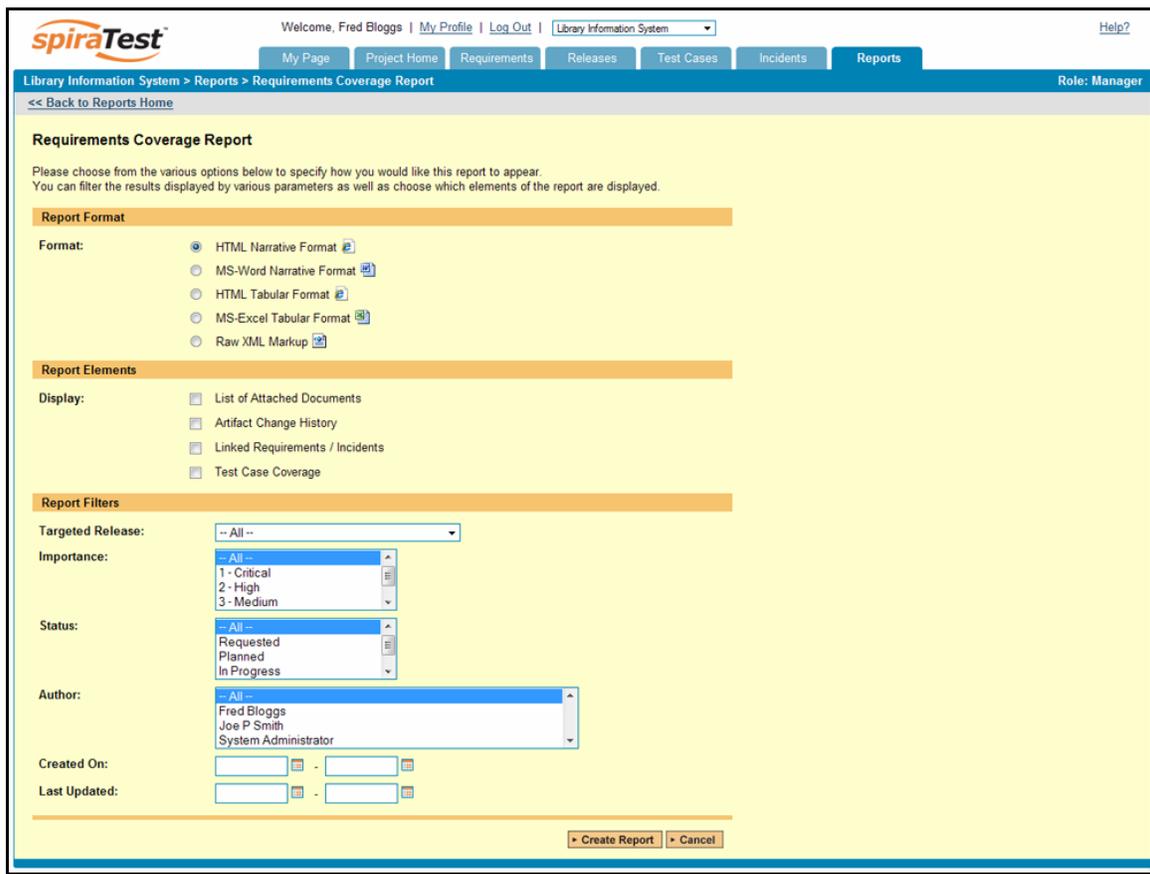
8. Reports Center

This section describes the reporting features of SpiraTest™, 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:



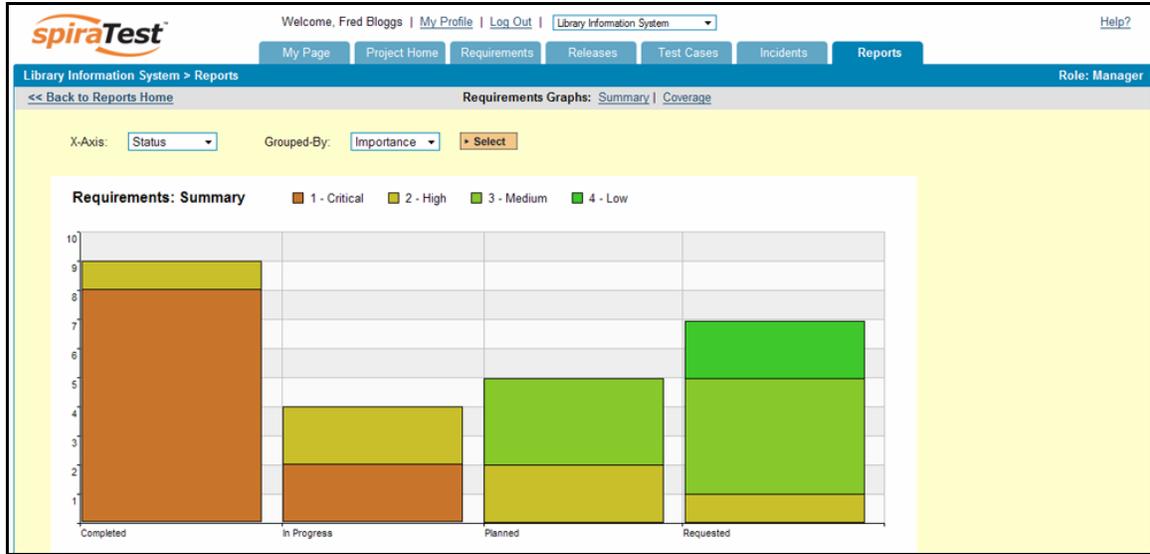
This page simply lists each of the reports and graphs available in the system, categorized by the artifact they primarily relate to (requirements, test cases, and incidents). Clicking on any of the report hyperlinks will take you to the configuration page for the report in question.

The configuration page for each report differs slightly, but the general format is illustrated below:



You can configure each of the reports in the following ways:

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 and clicked the <Select> button 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:

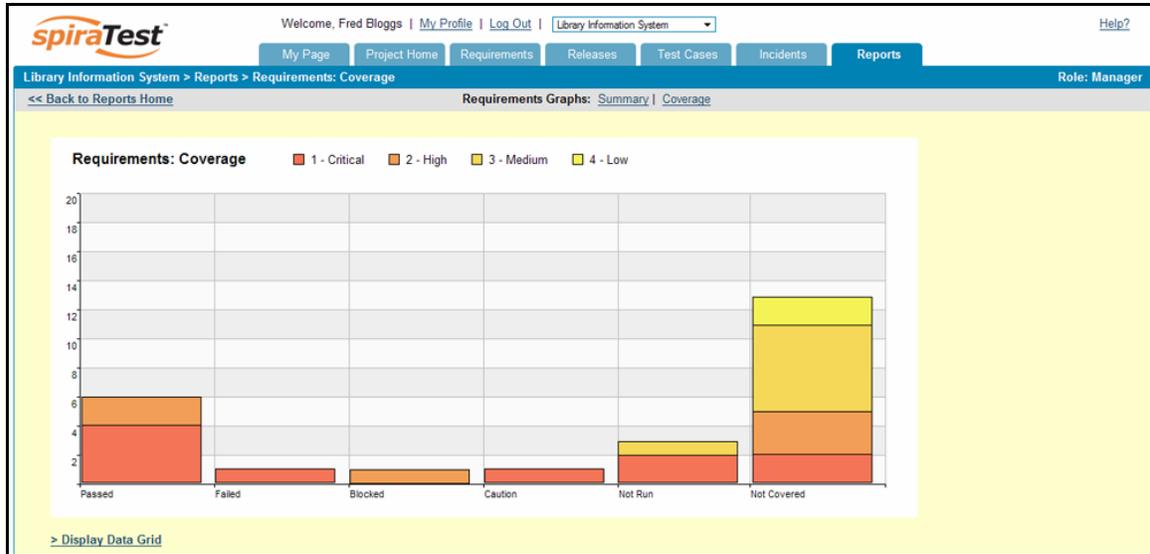
> Hide Data Grid

Status	Importance			
	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

This feature is available on all the various graphs in the system.

8.1.3. 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.

8.2. Test Case Reports

8.2.1. 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.

[> Print Report](#)

Printable Test Scripts

Folder 1 - Functional Tests

Test 2 - Ability to create new book			
Step	Description	Expected Result	Sample Data Date
1	Call Login to Application		
2	User clicks link to create book	User taken to first screen in wizard	
3	User enters books name and author, then clicks Next	User taken to next screen in wizard	Macbeth, William Shakespeare
4	User chooses book's genre and sub-genre from list	User sees screen displaying all entered information	Play, Tragedy
5	User clicks submit button	Confirmation screen is displayed	

Attachment List:

Filename	Description	Author	Date Uploaded
Sequence Diagram for Book Mgt.pdf	Sequence diagram in UML format that provides additional detail surrounding the book management use-case / test case	Fred Bloggs	5/3/2006 12:00:00 AM

8.2.2. Test Case Execution Report

This printable report displays all of the test cases defined for the current project in the order they appear in the test case list. For each individual test case, the name, execution status, author, owner and execution date are displayed, along with tables containing the list of individual test runs, attached documents, the change history, and finally any associated open incidents:

Folder 1 - Functional Tests

Test 2 - Ability to create new book

Tests that the user can create a new book in the system

Status: Passed
Author: Fred Bloggs
Owner: Fred Bloggs
URL: <http://www.libraryreferences.org>
Test Type: Functional Test

Creation Date: 12/1/2003 12:00:00 AM
Last Execution: 12/1/2003 12:00:00 AM

Step	Description	Expected Result	Sample Data	Date
1	Call Login to Application			
2	User clicks link to create book	User taken to first screen in wizard		
3	User enters books name and author, then clicks Next	User taken to next screen in wizard	Macbeth, William Shakespeare	
4	User chooses book's genre and sub-genre from list	User sees screen displaying all entered information	Play, Tragedy	
5	User clicks submit button	Confirmation screen is displayed		

Open Incidents List:

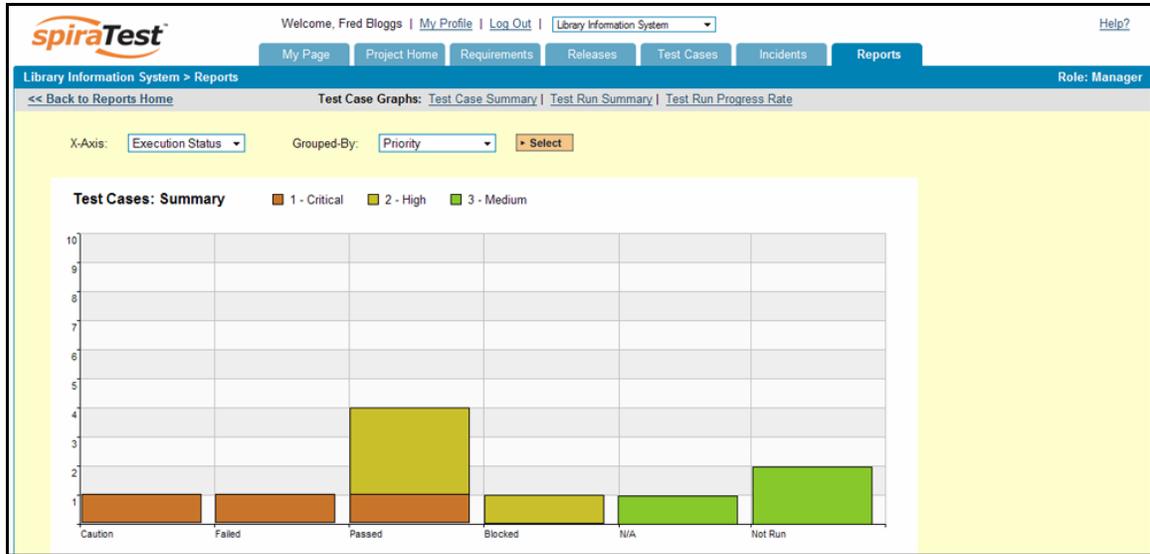
Incident #	Type	Status	Priority	Name	Owned By	Detected On
7	Bug	Assigned	1 - Critical	Cannot add a new book to the system	Joe P Smith	11/4/2003 12:00:00 AM

Test Runs:

Run #	Tester	Release	Version	Status	Execution Date
2	Fred Bloggs	Library System Release 1 SP1	1.0.1.0	Passed	12/1/2003 11:30:55 AM
1	Joe P Smith	Library System Release 1	1.0.0.0	Failed	12/1/2003 10:45:20 AM

8.2.3. Test Case Summary Graph

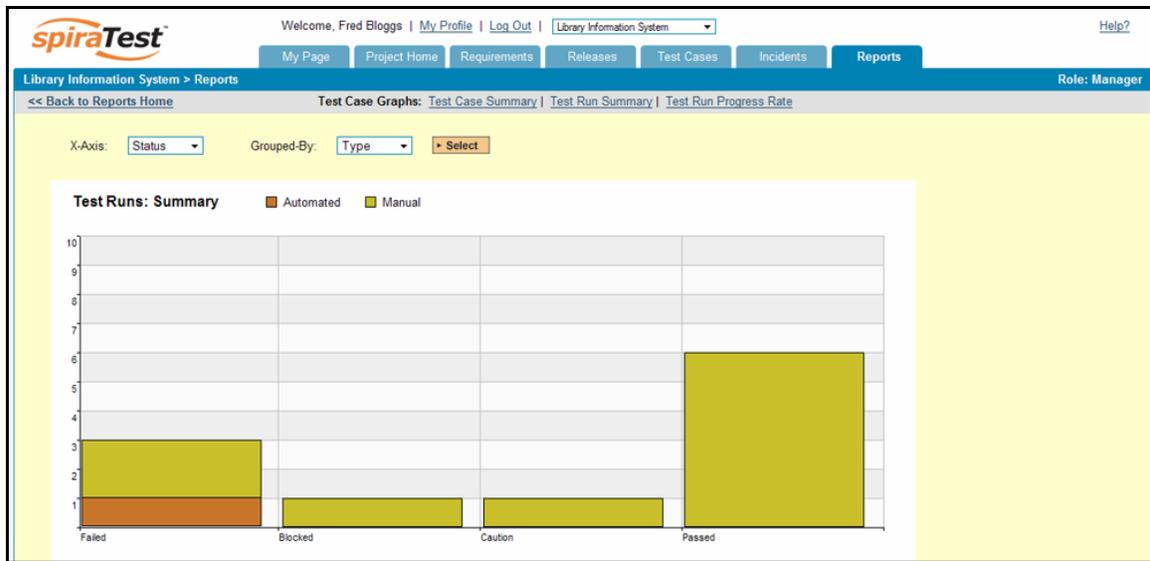
The test case summary graph shows how many test cases are currently in a project. The number of test cases is displayed according to the criteria that you specify. You can specify the type of data displayed along the x-axis, and the test case information which is used to group the data. When you first 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 and clicked the <Select> button 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.

8.2.4. 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 and clicked the <Select> button the graph will be displayed:



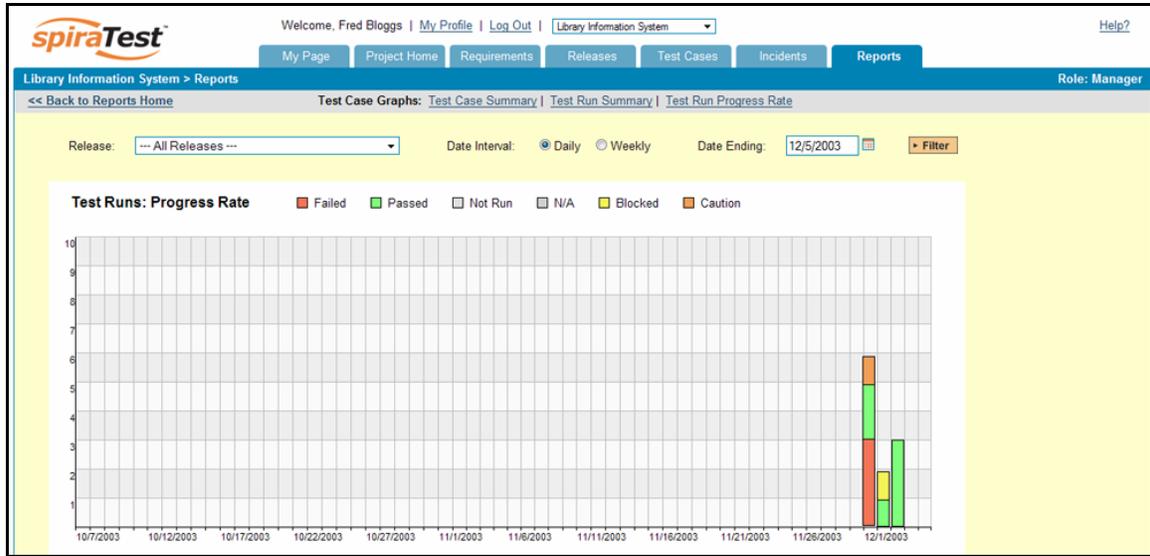
In this version of the report, the x-axis represents the test run execution status, and the individual bars are grouped by test run type. Each data-value can be viewed by positioning the mouse

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.

8.2.5. 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 either be displayed for 60 days of data daily or for 12 months of data weekly, ending on a specified date.

The screen-shot below illustrates the progress rate report loaded with the past 60 days of test run data depicted on a daily basis:



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 day 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 that the test run was executed against, and also change the ending date of the date range. By clicking on the weekly radio button, you can display the past 12 months of test run data organized on a weekly basis. Clicking on the “Display Data Grid” link will display the underlying data that is being used to generate the graph.

8.3. Incident Reports

8.3.1. Incident Status 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:

[> Print Report](#)

Incident Status Report

Incident 1 - Cannot log into the application

Type: Incident
Status: New
Opened By: Fred Bloggs
Assigned To:
Detected In Release: 1.0.0.0
Resolved In Release: 1.0.1.0
Notes:
Operating System:

Priority:
Severity:
Opened On: 11/1/2003 12:00:00 AM
Last Modified: 12/1/2003 12:00:00 AM
Closed On:
Verified In Release: 1.0.1.0

Description / Resolution:

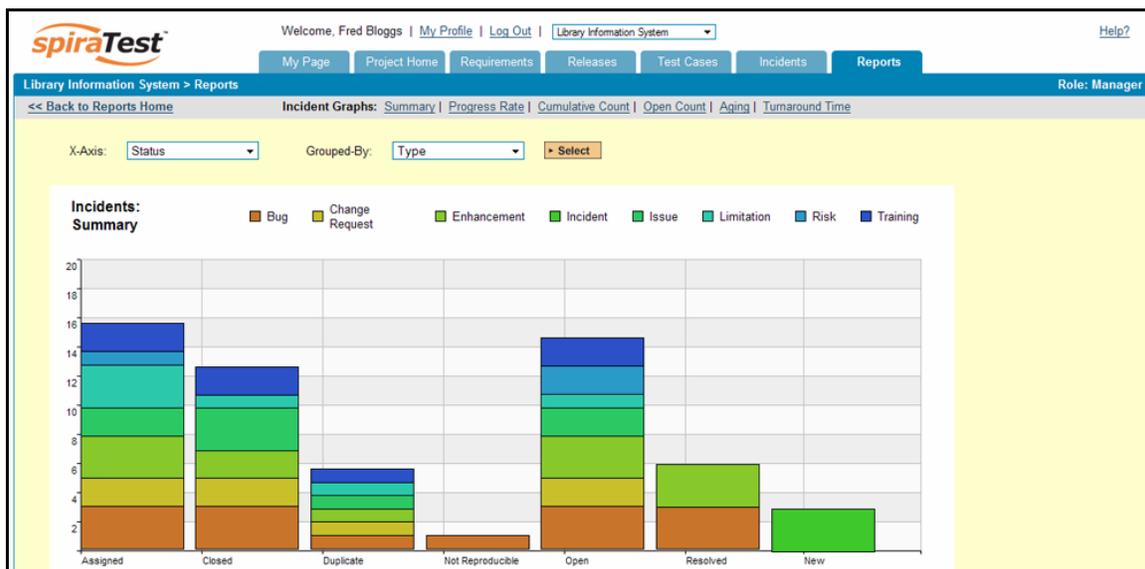
When trying to log into the application with a valid username and password, the system throws a fatal exception

Attachment List:

Filename	Description	Author	Date Uploaded
Bug Stack Trace.txt		Joe P Smith	5/4/2006 12:00:00 AM
Error Logging-in Screen-shot.gif	Captured screen-shot of the error that was raised when attempting to log in to the library application	Fred Bloggs	4/24/2006 12:00:00 AM

8.3.2. 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 and clicked the <Select> button the graph will be displayed:

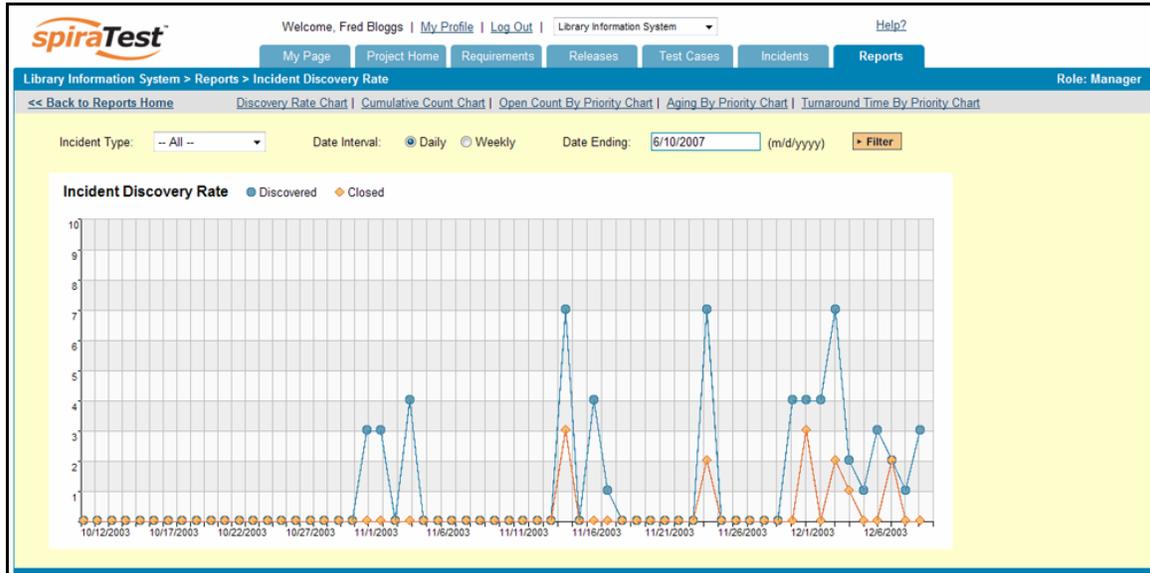


In this version of the report, the x-axis represents the incidents' status, and the individual bars are grouped by the type of incident. Each data-value can be viewed by positioning the mouse pointer over the bar, and a "tooltip" will pop-up listing the actual data value. Clicking on the "Display Data Grid" link will display the underlying data that is being used to generate the graph.

8.3.3. Incident Progress Rate Graph

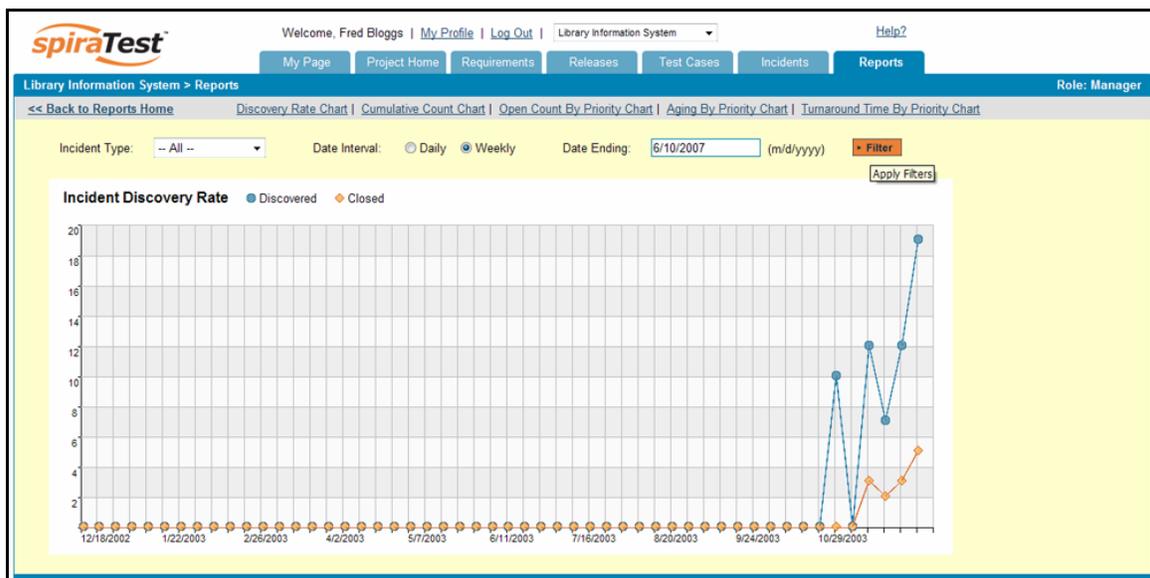
The incident progress rate chart displays the total number of incidents created and closed over a particular date-range. The report can either be displayed for 60 days of data daily or for 12 months of data weekly, ending on a specified date.

The screen-shot below illustrates the progress rate report loaded with the past 60 days of incident discovery/closure data depicted on a daily basis:



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 ending date of the date range (e.g. displaying only the bugs for the date range).

Similarly, by clicking on the weekly radio button, you can display the past 12 months of incident discovery data organized on a weekly basis:



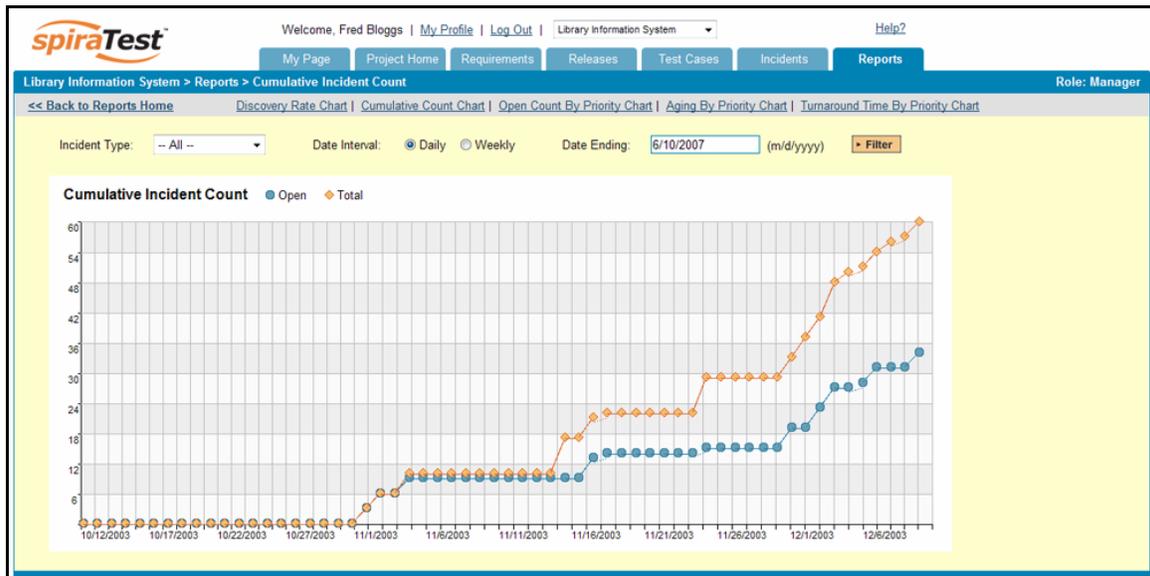
In this version of the report, the y-axis represents the number of incidents (either created or closed in a 7-day period), and the x-axis represents a specific week in the time-span. Each data-point can be viewed by positioning the mouse pointer over the point, and a “tooltip” will pop-up listing the actual data value. Again you can filter this report by the type of incident and also specify the ending date of the date-range. Clicking on the “Display Data Grid” link will display the underlying data that is being used to generate the graph.

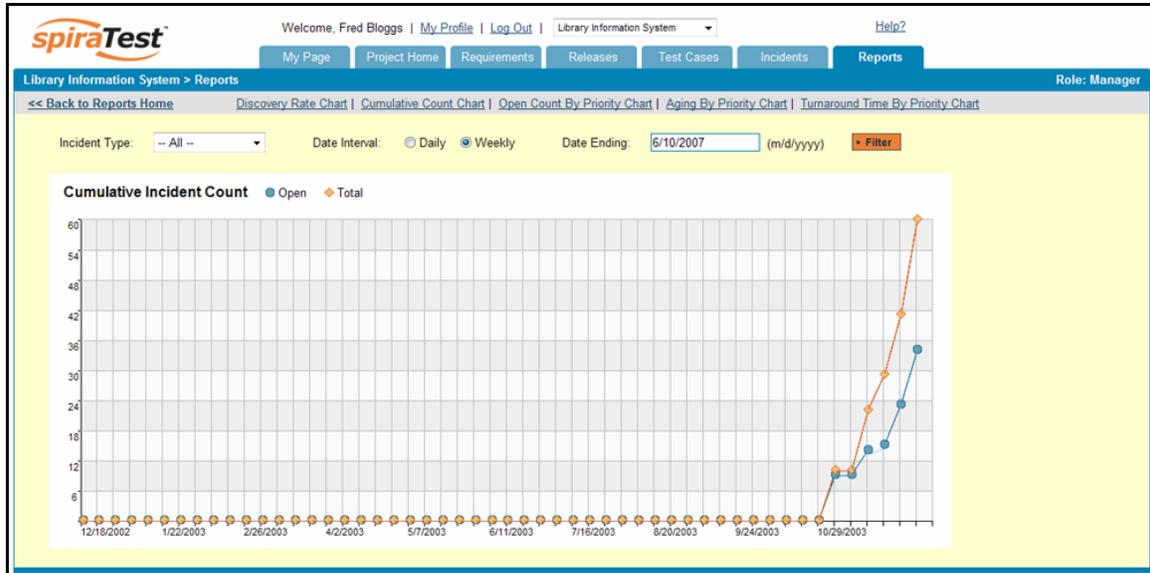
Clicking the “Back to Project Home” hyperlink will take you back to the Project Home dashboard. In addition, the toolbar displays a list of shortcuts to other incident reports that can be displayed.

8.3.4. 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. The report can either be displayed for a 60 day interval on a daily basis or for a 12 month interval of a weekly basis. 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).

The screen-shot below illustrates the cumulative count report loaded with the past 60 days of cumulative incident count data depicted on a daily basis:



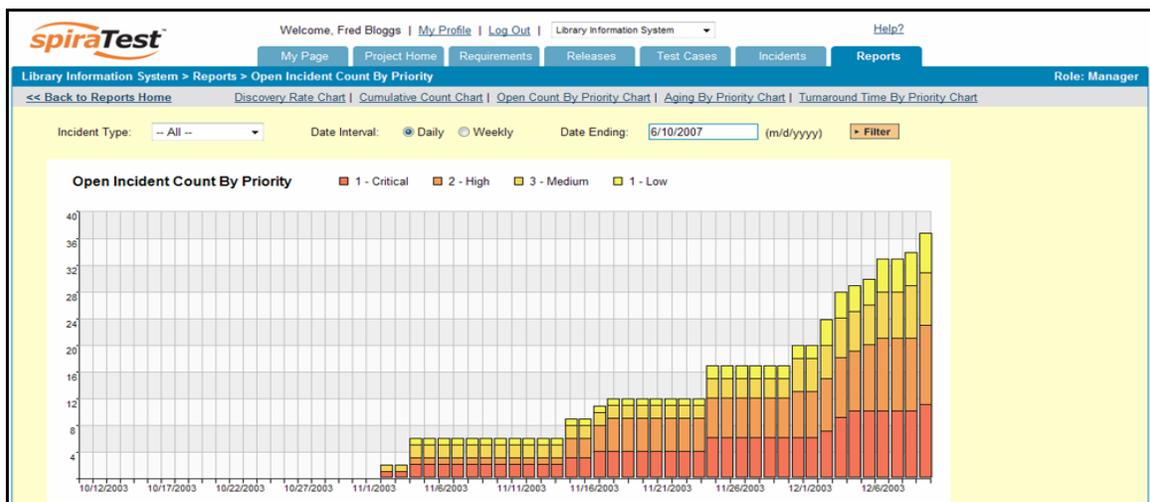


In this version of the report, the y-axis represents the number of incidents logged in a 7-day period, and the x-axis represents a specific week in the time-span. Each data-point can be viewed by positioning the mouse pointer over the point, and a “tooltip” will pop-up listing the actual data value. Again, you can also filter the type of incident being reported, as well as change the end date for the date interval. Clicking on the “Display Data Grid” link will display the underlying data that is being used to generate the graph.

Clicking the “Back to Project Home” hyperlink will take you back to the Project Home dashboard.

8.3.5. Open Incident Count Graph

The open incident count chart displays the total number of open incidents in the system for the current project over a particular date-range categorized by incident priority. The report can either be displayed for a 60 day interval on a daily basis or for a 12 month interval of a weekly basis. The screen-shot below illustrates the discovery report loaded with the past 60 days of cumulative incident count data depicted on a daily basis:



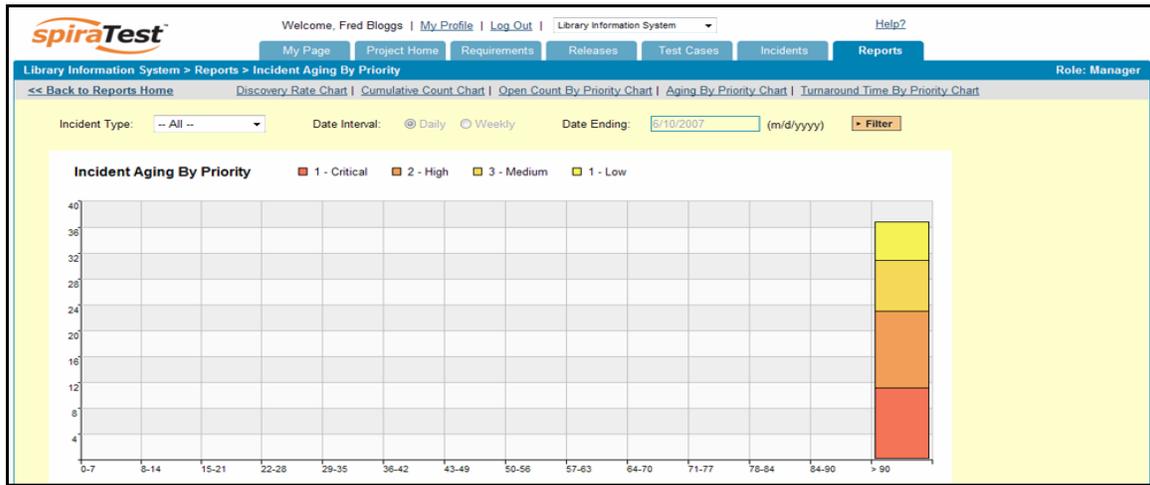
In this version of the report, the y-axis represents the number of incidents, and the x-axis represents a specific day in the time-span. The exact count of each bar in the stacked histogram

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 end date for the date interval. Clicking on the “Display Data Grid” link will display the underlying data that is being used to generate the graph.

Similarly, by clicking on the weekly radio button, you can display the past 12 months of open incident counts organized on a weekly basis (categorized by priority).

8.3.6. Incident Aging Graph

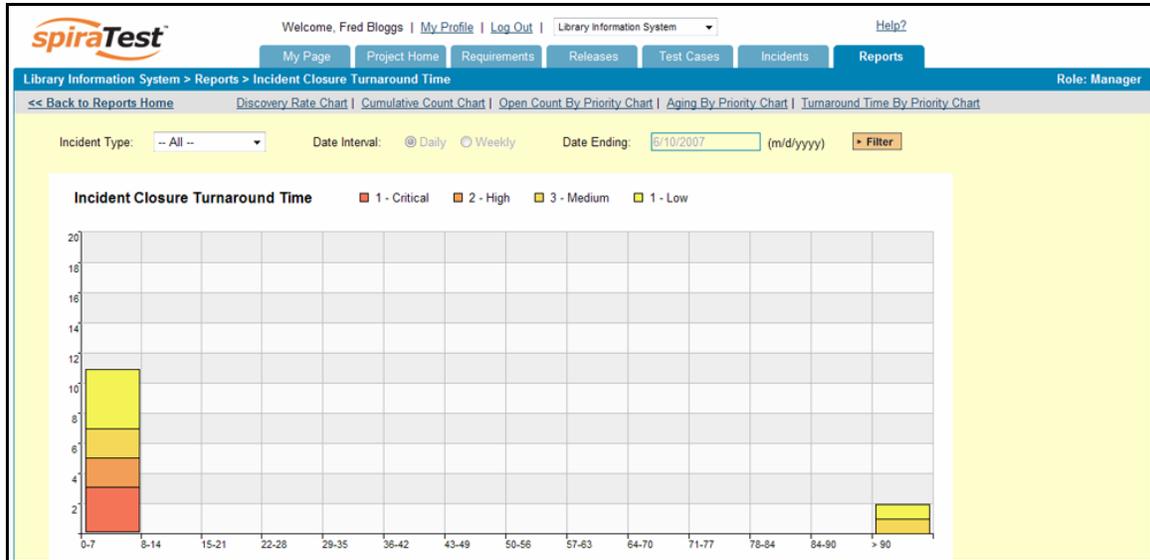
The incident aging chart displays the number of days incidents have been left open in the system. The chart is organized as a stacked histogram, with the count of incidents on the y-axis and different age intervals on the x-axis. Each bar-chart color represents a different incident priority, giving a 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.

8.3.7. 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.

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