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- The **Relevant Test Cases** folder assists developers in adding test cases to increase test coverage. The test cases added here are also managed under the Testing Management Module.
- The **Relevant Request** folder assists developers in adding relevant requirements that assist in preventing similar defects from occurring in future releases. Request reports added here are also managed under the Requirement Management Module.
- Correction and verification tasks are added under the **Schedule** folder. Users can add new tasks or associate the defect report with existing tasks. Mesh relationship is supported between tasks and components in the development lifecycle. A task can be associated with multiple defect reports. All tasks are managed in the **Manage Plan Web** page. It is an integrated project management facility, where users can centralize and manage planned and unplanned tasks.
- The **History** folder tracks changes made to the defect report and can be used for auditing.
- The **Notes** folder in allows written discussion to be logged about the defect.

The Defect Management module is also integrated with the Testing Management Module via the **Relevant Defect** folder of a test case. It allow testers to add relevant information about defect that are detected when running the testing procedures.

The workflow in defect reports cover the natural steps of a correction process, thereby assist user to identify status and ownership. A brief description of the steps is provided below:

Step 1 Validating

The **Validating** status in the workflow is the state where the defect is being reproduced and validated. If validation is not required, manager can click on the **Accept** button, the report will skip **Validating** and **Analyzing** status and the system will ask for assignment on correction tasks.

Step 2 Analyzing

This is a buffer state before **Correcting** state. If users create a defect report and decided to correct it right away, the report will change to the **Analyzing** status, where correction tasks can be assigned.

Step 3 Correcting

When the defect is ready for correction, managers can assign correction task by clicking on the **Accept** button. After an assignee has received the notification and then worked on it, the assignee can enter correction reports using the **Correction Web** page. Managers or task Affirmant can validate correction tasks using the **Validate Correction Web** page. The task Affirmant can be a peer-reviewer who will perform a code review.

Step 4 Verification

After the validation is completed, the user has an option to assign testing tasks to verify the correction result. The tester can use the **Verification Web** page to process verification reports. Managers or task Affirmant can validate verification results using the **Val. Verification Web** page.

Step 5 Close

The **Fixed** status in the workflow is the state where all tasks under the **Schedule** folder of the defect report have been validated by the task Affirmant. Managers can then close the defect report using the **Close** button.

Screen capture (shown below):

1. Visual workflow assists with building the common ground for communication among members.
2. Folders in a defect report.

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3. User can attach multiple documents
4. Frequently used buttons are shown at the left of the arrows. Special operating buttons can be shown by click on the arrows.
5. There is an option to change the status of the report at any time. To operate, click on the arrow.

The screenshot displays the RIQTek Manager web application interface. At the top, there is a navigation menu with tabs: Home, System, Project, Plan and Trace, Quality, and Others. The current page is titled "Project: Default" and shows details for a defect report with "Serial No. : 100001", "Version : Default", and "Assign to : Administrator".

A workflow diagram is shown at the top, with steps: Open, Validating, Analyzing, Correcting, Verifying, Fixed, and Closed. The "Open" button is highlighted with a red circle (1). Below the workflow, there are tabs for "Details", "Schedule", "Relevant Test Cases", "Relevant Requests", "History", and "Notes". The "Details" tab is selected, and a "Change Status" dialog box is open, showing "New Status: *Open*" and "OK" and "Close" buttons. A red circle (5) highlights the "Change Status" dialog box.

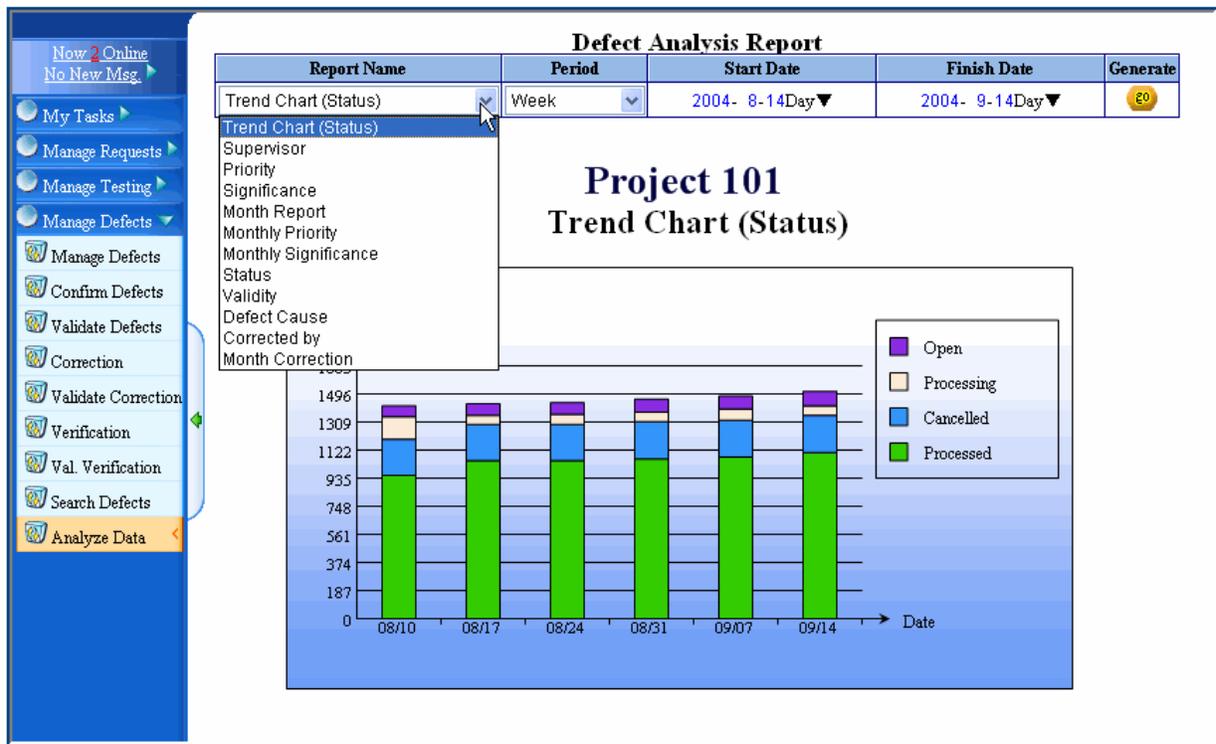
The "Details" section includes "Basic Information" with fields for Serial No., Version, Language, Module, Recurrence, Significance, Software, and Hardware. The "Summary" field contains "Quality module contains only solid color" and the "Description" field contains "Color should be shaded as described in design document. See Attached." Below this, there are fields for Reporter, Reported at, Defect Type, and Expected Finish Date. The "Attached Files" section shows "1. DefectManagement.doc [320,000 Byte]" with a red circle (3) highlighting the file name.

At the bottom, there is an "Advanced Information" section with a "Validate" button and a red circle (4) highlighting the button. The browser address bar shows "http://localhost/RIQTek/pprm/bugr_edit.aspx?lastpcd={CE8D1AEC-7A3B-4F03-9B23-E9AD061169A1}&url=&bguid={EA924B67}" and the page is titled "Local intranet".

Data Analysis

RIQTek Manager comes with multiple ways to analyze data. For analyzing data in the defect management module, user can use the **Analyze Data** Web page. For example, the Trend Chart (Status) Web page provides an overview on how fast defect reports are created, processed and closed.

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About RIQTek:

RIQTek is leading software provider for application lifecycle management. RIQTek's software product, RIQTek Manager, truly integrates requirement management, test case management, defect management, and project management to assist companies in building best practices, managing distributed teams, tracking development lifecycles, measuring performances, etc.

RIQTek Location:

355 W. Olive Ave. #203
Sunnyvale, CA94086
(408) 245.8305

URL: www.riqtek.com

EMIAL: info@riqtek.com