# **IBM Rational Quality Manager V4.0**

# Lab exercise: Test creation

#### Objectives

In this lab, you complete these tasks:

- o Reconcile requirements collections
- Trace a requirement to a test script step

#### Given

o The JKE Banking Money That Matters project

This lab is provided **AS-IS**, with no formal IBM support.

## 1.1 Requirements Reconciliation

The Requirements Collection Reconciliation wizard enables testers to identify changes to the requirements collections associated to the test plans. The wizard is used on an "as requested" basis rather than a real-time update because Testers might not want to address requirements changes immediately.

#### 1.1.1 Force a change to a requirement

Make a change to a requirement so there is something to identify in the wizard.

- \_\_1. Open **System Verification** test plan
- \_\_\_2. Select **Requirement Collection Links** section
- \_\_\_3. Click **157: Release 1 Planning**. This will open the requirements collection in the RM application.
- \_\_\_4. Open the **Frequency of dividend transfer** feature requirement

Page size:	20 -		
	ID	Name	Artifact Type
	72	🖓 Customers can nominate an organization for the program	Feature
	90	Allocate dividends by amount and frequency	User Story Elaboration
	106	🔊 Dividend allocation by percentage	Feature
	112	🔊 Organization must identify how much money is desired	Feature
	119	🕈 Donor Chooses an Organization	User Story Elaboration
	126	🔊 Frequency of dividend transfer	Feature
	137	Donors will receive confirmation and receipt	Foature

- \_\_5. Click the **Edit** button in the upper right
- \_\_6. Change Business Priority from **Should** to **Must**
- \_\_\_7. Click **Done** in the upper right.

#### 1.1.2 Reconcile the test plan with the requirement collection

\_\_\_1. Select **JKE Banking (Quality Management)** from the Home menu to return to the QM application.



- \_\_\_2. Select Planning > Recently Viewed > 2: System Verification
- \_\_3. Select the **Requirement Collection Links** section of the test plan
- \_\_\_4. Check the box next to **157: Release 1 Planning**



\_\_5. Click **Reconcile Requirements in Collections** 



The wizard analyzes the state of the requirements in the collection and displays requirements that have no test cases in this plan.

- \_\_6. Select the Validate Loan term and amount requirement and click Next.
- \_\_\_7. Select the Validate Loan term and amount requirement again and click Generate Test Case

New Test Case		23
Name: *	Validate Loan term and amount	
Description:		
Weight: *	100	
Owner:	Unassigned 💌	
Template	Default Test Case Template	
Categories		
Test Phase:	User Acceptance Test	
Туре:	Core Functionality	
Function:	Unassigned 💽 \downarrow	
Test Plan	System Verification	
	OKCancel	

\_\_\_8. Accept the defaults and click **OK** 

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\_\_\_9. When the operation completes, click **Next**.

The wizard identifies any removed and updated requirements and offers you the option to Ignore or Mark the test case "suspect". You can optionally choose to create a Quality Task as a reminder to revisit this at a later time.

\_\_10. Select **Reconcile Updated Items**, then the **Frequency of dividend transfer** requirement and click **Mark Suspect**, then click **Finish**.

Red	concile Requirements					×
1	Actions Reconcile Removed Items	Paguiraments changed since the last re	conciliation			
•	Reconcile Updated Items	The following requirements have change suspect by selecting requirements and c by selecting requirements and clicking the clicking the Ignore icon.	d so the Test Cas licking the Mark As e Clear Suspicion	es associated with them may s Suspect icon. Mark Test Cas i icon. Defer making a decisio	y be suspect. Mark ses as not suspec on by selecting req	Test Cases as t (clear suspicion), uirements and
					Type Filter Text	
		Show All 👻 Items per page	H Previous	1 - 1 of 1   Next →		😼 🏄 🐼
		Summary	Status	Linked Test Cases		Action
		🗹 🄄 126: Frequency of dividend	Modified	P Verify dividend transfer fr	requency	
		-	H Previous	1-1of1   Next ⊮		
					Creat	e a new Quality Task
						Finish
•						•

- \_\_11. Save the test plan
- \_\_\_12. Select the **Test Cases** section of the test plan.

Note the new Validate Loan term and amount test case and that the Verify dividend transfer frequency test case is marked Suspect.

10	👻 Items	s per page		
	ID	Suspect	Priority 🐁	Name
	29	$\diamond$		😰 Validate Loan term and amount
	1	•		Providend transfer frequency
	12	$\diamond$		Organization must provide justification for wh

# 1.2 Requirements links to Test Script Steps

Requirements can now be traced to an individual step of a test script. In complex environments, test cases can often be very lengthy and cover dozens or hundreds of requirements. There is now finer fidelity in requirements coverage reporting for such environments.

### 1.2.1 Enable Test Script Step linking

\_\_\_1. Select **Manage Project Properties** from the Admin menu in the upper right section of the page.



- \_\_\_\_2. Select the **Test Script Preferences** section
- \_\_3. Check both check boxes and **Save**

Test Script Preferences?			
<ul> <li>Allow linking between Requirements and Test Script steps</li> <li>Copy Requirement links into Test Cases when adding new child Test Scripts</li> <li>Note: This preference is not for the purpose of synchronizing requirements between test case and test script.</li> </ul>			

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#### 1.2.2 Create Test Script Step link to Requirement

- \_\_\_1. Select Planning > Recently Viewed > System Verification
- \_\_\_2. Locate the **MyTestCase01** test case and open it.
- \_\_3. Select the **Test Scripts** section of the test case.
- \_\_\_4. Click Create Test Script

Тур	e Filter Te	ext			R	
	S.	÷	۵۵ 😵	•	2	

\_\_5. Enter the name **MyTestScript01** and click **OK** 

New Test Script		x
Name: *	MyTestScript01	
Description:		
Туре:	Manual	
		OK Cancel
	·····	

- \_\_6. **Save** the test case
- \_\_\_7. Open the **MyTestScript01** test script
- \_\_8. Click "Click to add step" and enter anything for a Description for a new step.
- \_\_\_9. Click the Action menu next to the new step and select Link to any Requirement



\_\_10. Enter donor in the search box and select **148: Allocate dividends by Percentage**. Click **OK.** 

Links Add links	
Search for artifacts by id or for words contained in the name:	
donor	R_
Select artifact: Displaying 1-17 of 17 matches (1 art	tifact selected)
148: Allocate dividends by Percentage         176: Allocating Dividends to a Cause         193: Business Recovery Matters Vision         124: Dividend Contribution to Multiple Organizations         162: Dividend contribution - confirmation         87: Donor         209: Donor         115: Donor Chooses Multiple Organizations         119: Donor Chooses an Organization         177: Donor Dividend Allocation Criteria         97: Donor must be registered user to access account details         171: Donors Deposit Money in a Pooled Assistance Fund         216: Donors can choose to support an organization         137: Donors will receive confirmation and receipt         126: Frequency of dividend transfer	Filter Display by Folder
88: Meeting Requesting Extended Functionality Content 144: Service for Allocating Dividends	Filter Display By Attribute     Filter Display by Tag     OK Cancel

\_\_\_11. **Save** the test script

Note the addition of the Validates Links in the Related Information section on the right side of the page



Parent Test Case(s)
MyTestCase01
Associated Keywords
Validates Links
148: Allocate dividends by
Percentage
Using Associated Keywords
Related Sites
IDM Define al
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- \_\_12. Click **MyTestCase01** in the Related Information section to return to the test case.
- \_\_\_13. Select the **Requirements Links** section of the test case.

Note that there is no link to the requirement from the test case.

- \_\_\_14. Select the **Test Scripts** section of the test case.
- \_\_\_15. Remove the test script association from the test case with the Action Menu next to the test script



- \_\_\_16. Save the test case
- \_\_17. Use the Add Test Scripts icon to add the MyTestScript01 link back onto the test case.

Type Filter Text	
* 💽 🛠 👄 🔚	
ates Requireme Add Test Scripts	

\_\_\_18. Click **Yes** when prompted to add the requirement link to the test case.



- \_\_\_19. Save the test case
- \_\_\_\_20. Select the **Requirement Links** section of the test case.

Note that the link to the requirement has been added to the test case.

Requirement Links 🖓		
Linked requirements that are being validated		
Show All 👻 Items per page		
	Summary	
	🔊 148: Allocate dividends by Percentage	