ReqKeeper Black Box Test Plan

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Introduction

The ReqKeeper program is a requirement management system that allows developers to track the requirements in their software and allows them to know what is left to implement. The black box tests are 5 system-level tests that will revise if the program meets the requirements.

To run tests:

- 1. Right click on ReqKeeper in the Package Explorer
- 2. Select Run as > Java Application
- 3. An empty ReqKeeper will load, you must go to top left corner click on file which will have a drop down menu. From that drop down menu, you may select new, load, or quit to start implementing requirements into ReqKeeper.
- 4. If you choose load, a FileChooser will automatically load and all test files will be located in the test-files/folder.

Note that while all tests end with the statement to Close GUI, you can run Tests 2-5 on the same GUI if there are no failures. If there are failures, you can use the preconditions to identify the dependent test cases.

Test ID	Description	Expected Results	Actual Results
Test 1: Loading GUI	Preconditions: None	Requirement GUI loads	Requirement GUI loads
(jhnguye4)	Run RequirementGUI.	ReqKeeper is empty with no Requirements in it	ReqKeeper is empty with no Requirements in it
	Check results		
	Close GUI		
Test 2: Valid File	Preconditions: None	Requirement GUI loads	Requirement GUI loads
(jhnguye4)	Run RequirementGUI. Top left corner click on	Requirement Catalog has 6 requirements:	Requirement Catalog has 6 requirements:
	File then Load. FileChooser will load, select: test- files/req1.xml Click Select Check results Close GUI	 ID: 0 , State: Submitted, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 1 , State: Accepted, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the 	 ID: 0 , State: Submitted, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 1 , State: Accepted, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the

		Accept button ID: 2 , State: Working, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 4 , State: Completed, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 23 , State: Rejected, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 32 , State: Verified, Summary: The system shall change a requirement the requirement and clicks the Accept button ID: 32 , State: Verified, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button	 Accept button ID: 2 , State: Working, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 4 , State: Completed, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 23 , State: Rejected, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 32 , State: Verified, Summary: The system shall change a requirement's state from Submitted to Accept button ID: 32 , State: Verified, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button
Test 3:	Preconditions: None	Requirement GUI loads	Requirement GUI loads
Add Requirement (jhnguye4)	Run RequirementGUI. Top left corner click on	Requirement Catalog has 7 requirements:	Requirement Catalog has 7 requirements:
	File then Load. FileChooser will load, select: test- files/req1.xml Click Select Click Add New Requirement Enter Summary: "This	 ID: 0 , State: Submitted, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 1 , State: Accepted, Summary: The system shall 	 ID: 0 , State: Submitted, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 1 , State: Accepted, Summary: The system shall
	requirement needs to be finished ASAP"	change a requirement's state from Submitted to	change a requirement's state from Submitted to

	Enter Test: SubmittedToAccepted Click Add Requirement to List Check results Close GUI	Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 2 , State: Working, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 4 , State: Completed, Summary: The system shall change a requirement's state from Submitted to Accepted when the user	Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 2 , State: Working, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 4 , State: Completed, Summary: The system shall change a requirement's state from Submitted to Accepted when the user
		requirement and clicks the Accept button ID: 23 , State: Rejected, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 32 , State: Verified, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 33 , State: Submitted, Summary: This requirement needs to be finished ASAP	requirement and clicks the Accept button ID: 23 , State: Rejected, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 32 , State: Verified, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 33 , State: Submitted, Summary: This requirement needs to be finished ASAP
Test 4: Delete Requirement (jhnguye4)	Preconditions: Test 2 and 3 Pass Select ID: 1 , State:	Requirement GUI loads Requirement Catalog has 6 requirements:	Requirement GUI loads Requirement Catalog has 6 requirements:
(Jiiiguye4)	Accepted, Summary: The system shall change a requirement's state from Submitted to Accepted when the user	ID: 0 , State: Submitted, Summary: The system shall change a requirement's state from Submitted to	ID: 0 , State: Submitted, Summary: The system shall change a requirement's state from Submitted to

	supplies an estimate of the time to implement the requirement and clicks the Accept button. Click Delete Selected Requirement Test description (repeatable and specific) Check results Close GUI	Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 2 , State: Working, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 4 , State: Completed, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 23 , State: Rejected, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 32 , State: Verified, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 33 , State: Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 33 , State: Submitted, Summary: This requirement needs to be finished ASAP	Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 2 , State: Working, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 4 , State: Completed, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 23 , State: Rejected, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 32 , State: Verified, Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 32 , State: Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button ID: 33 , State: Submitted, Summary: This requirement needs to be finished ASAP
Test 5: No Requirement Selected (jhnguye4)	Preconditions: Test 2 Passed Make sure that no row in the Requirement Catalog table is selected (if there is a	A pop-up dialog stating "No Requirement selected" is displayed.	A pop-up dialog stating "No Requirement selected" is displayed.
	row selected, restart the GUI)		

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	Click Edit Selected Requirement Check results Close GUI		
Test 6: Edit Id 0 (jhnguye4)	Preconditions: Test 2 Passed Select the Requirement that has the Id 0 Click Edit Selected Requirement Check results Close GUI	A panel pops up with the following information: Requiremnt Id: 0 Requirement State: Submitted Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button Acceptance Test Id: SubmittedToAccepted Everything else is null or empty.	A panel pops up with the following information: Requiremnt Id: 0 Requirement State: Submitted Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button Acceptance Test Id: SubmittedToAccepted Everything else is null or empty.
Test 7: No inputs in Submitted state (jhnguye4)	Preconditions: Test 2 and test 6 Passed Don't input anything in priority or estimate fields Click Accept Check results Close GUI	A pop-up dialog stating "Invalid priority" is displayed and goes back to Requirement catalog.	A pop-up dialog stating "Invalid priority" is displayed and goes back to Requirement catalog.
Test 8: Go to Rejected State (jhnguye4)	Preconditions: Test 2 and test 6 Passed On the drop down menu for Rejection Reason Select Infeasible Click Reject Click on Requirement 0 And select Edit Requirement Check results Close GUI	A panel pops up with the following information: Requiremnt Id: 0 Requirement State: Rejected Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button Acceptance Test Id: SubmittedToAccepted Rejection Reason: Infeasible Everything else is null or empty.	A panel pops up with the following information: Requiremnt Id: 0 Requirement State: Rejected Summary: The system shall change a requirement's state from Submitted to Accepted when the user supplies an estimate of the time to implement the requirement and clicks the Accept button Acceptance Test Id: SubmittedToAccepted Rejection Reason: Infeasible Everything else is null or empty.

Test 9: Cancel (jhnguye4)	Preconditions: Test 8 Passed Don't input anything in summary or acceptanceTestId fields Click cancel Check results Close GUI	Goes to Requirement catalog with Requirement Id still in rejected state with same summary.	Goes to Requirement catalog with Requirement Id still in rejected state with same summary.
Test 10: Valid Revise (jhnguye4)	Preconditions: Test 8 Passed For Summary text field: "new Summary" For Acceptance Test ID: "RejectedToSubmitted" Click Revise Click on Requirement 0 Click on Edit Requirement Check results Close GUI	A panel pops up with the following information: Requiremnt Id: 0 Requirement State: Submitted Summary: new Summary Acceptance Test Id: RejectedToSubmitted Everything else is null or empty.	A panel pops up with the following information: Requiremnt Id: 0 Requirement State: Submitted Summary: new Summary Acceptance Test Id: RejectedToSubmitted Everything else is null or empty.
Test 11: Invalid prority Accepted State (jhnguye4)	Preconditions: Test 10 Passed For Priority text field: 5 For Estimate: "1 hour" Click Accept Check results Close GUI	A pop-up dialog stating "Invalid command" is displayed. User is returned to Requirement Catalog still in Submitted State pop-up dialog stating "Invalid command" is displayed.	A pop-up dialog stating "Invalid command" is displayed. User is returned to Requirement Catalog still in Submitted State
Test 12: Invalid Estimate (jhnguye4)	Preconditions: Test 10 Passed For Priority text field: 2	A pop-up dialog stating "Invalid command" is displayed. User is returned to Requirement Catalog still in Submitted State	A pop-up dialog stating "Invalid command" is displayed. User is returned to Requirement Catalog still in Submitted State

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	For Estimate: "" Click Accept Check results Close GUI		
Test 13: Valid accepted state (jhnguye4)	Preconditions: Test 10 Passed For Priority text field: 2 For Estimate: "1 hour" Click Accept Click on Requirement 0 Click on Edit Requirement Check results Close GUI	A panel pops up with the following information: Requiremnt Id: 0 Requirement State: Accepted Summary: new Summary Acceptance Test Id: RejectedToSubmitted Priority: 2 Estimate: 1 hour Everything else is null or empty.	A panel pops up with the following information: Requiremnt Id: 0 Requirement State: Accepted Summary: new Summary Acceptance Test Id: RejectedToSubmitted Priority: 2 Estimate: 1 hour Everything else is null or empty.
Test 14: Valid working (jhnguye4)	Preconditions: Test 13 Passed For Developer: "New developer" Click Assign Click on Requirement 0 Click on Edit Requirement Check results Close GUI	A panel pops up with the following information: Requiremnt Id: 0 Requirement State: Working Summary: new Summary Acceptance Test Id: RejectedToSubmitted Priority: 2 Estimate: 1 hour Developer: New Developer Everything else is null or empty.	A panel pops up with the following information: Requiremnt Id: 0 Requirement State: Working Summary: new Summary Acceptance Test Id: RejectedToSubmitted Priority: 2 Estimate: 1 hour Developer: New Developer Everything else is null or empty.
Test 15: Invalid working (jhnguye4)	Preconditions: Test 13 Passed For Developer: "" Click Assign Check results	A pop-up dialog stating "Invalid command" is displayed and is returned to Requirement Catalog.	A pop-up dialog stating "Invalid command" is displayed and is returned to Requirement Catalog.

Close GUI	

Document Revision History

Date	Author	Change Description
6/28/2019	Jhnguye4	Added more tests