CSC216: Project 1 System Test Plan

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Introduction

The System Test Plan provides test cases outlining several situations in the Issue Manager program. The primary focus is checking that Issues (bugs or enhancements) are properly displayed and transitioning between the appropriate states.

To run the tests:
1. Right click on the IssueManagerGUI class in the Package Explorer.
2. Select Run As > Java Application

Test Files

File selection in the Issue Manager is done by clicking the "File" button in the top left of the GUI and selecting the "Load" option.

valid_issue_list.txt

*1,New,Enhancement,Issue description,,false,
-[New] Note 1
*3,Confirmed,Bug,Issue description,,true,
-[New] Note 1
-[Confirmed] Note 2
that goes on a new line
*7,Working,Bug,Issue description,owner,true,
-[New] Note 1
-[Confirmed] Note 2
-[Working] Note 3
*14,Verifying,Enhancement,Issue description,owner,false,Fixed
-[New] Note 1
-[Working] Note 2

that goes on a new line
-[Verifying] Note 3
*15,Closed,Enhancement,Issue description,owner,false,WontFix
-[New] Note 1
that goes on a new line
-[Working] Note 2
-[Verifying] Note 3
-[Working] Note 4
-[Verifying] Note 5
-[Closed] Note 6

invalid_issue_list.txt

1,New,Enhancement,Issue description,,false,
- Note 1
*3,Confirmed,Enhancement,Issue description,,true,
[New] Note 1
-[Confirmed] Note 2
that goes on a new line
*-8,Performing,Bug,Issue description,owner,false,
-[New] Note 1
-[Confirmed] Note 2
-[Working] Note 3
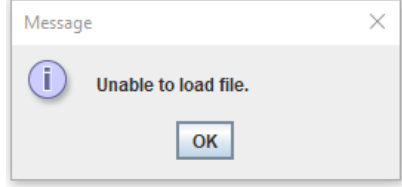*14,Verifying,Enhancement,Issue description,owner,false,WontFix, ExtraToken
-[New] Note 1
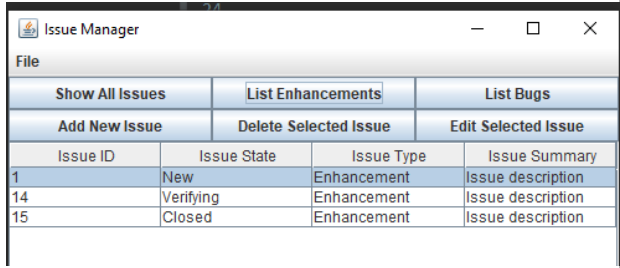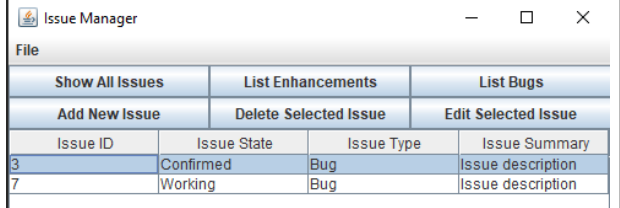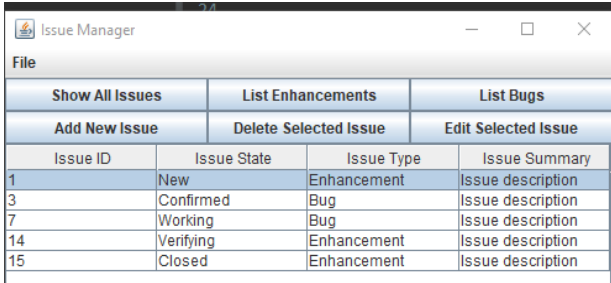-[Working] Note 2
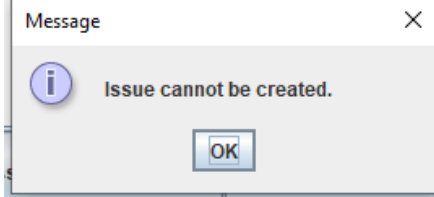that goes on a new line
-[Verifying] Note 3
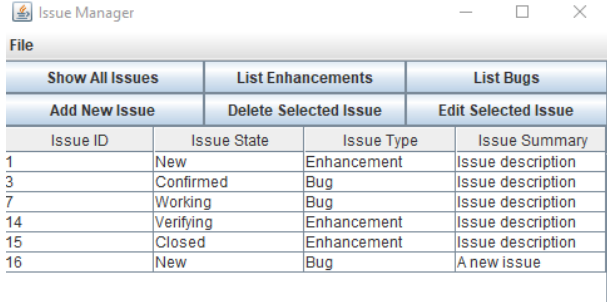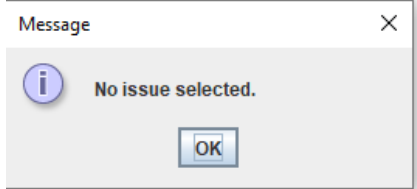*15,Closed,Enhancement,Issue description,owner,false

System Tests

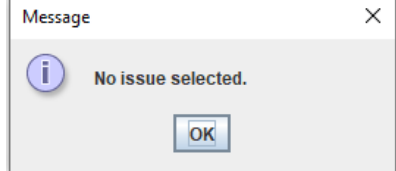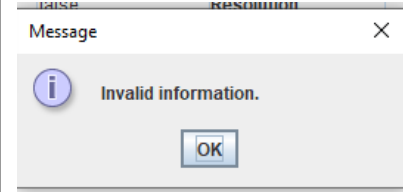| Test ID	Description	Expected Results	Actual Results
Test 1: Invalid File (UC2)	Preconditions: None 1. Run IssueManagerGUI 2. Click **File**, then click **Load**. 3. Select test-files/invalid_issue_list.txt 4. *Check results* 5. Click **OK** 6. Close GUI	The invalid file is skipped and not imported to the system. The GUI shows an empty issue list. A pop-up saying "Unable to load file." appears.	**Pop-up window stating "Unable to load file." appears.** **The Issue Manager has no issues loaded.**
Test 2: Valid File (UC2)	Preconditions: None 1. Run IssueManagerGUI 2. Click **File**, then click **Load**. 3. Select test-files/valid_issue_list.txt 4. *Check results* 5. Close GUI	The Issue Manager shows the following Issue ID, Issue State, Issue Type, and Issue Summary: ● 1, New, Enhancement, Issue Description ● 3, Confirmed, Bug, Issue Description ● 7, Working, Bug, Issue Description ● 14, Verifying, Enhancement, Issue Description ● 15, Closed, Enhancement, Issue Description	**The Issue Manager shows the following Issue ID, Issue State, Issue Type, and Issue Summary:** ● **1, New, Enhancement, Issue Description** ● **3, Confirmed, Bug, Issue Description** ● **7, Working, Bug, Issue Description** ● **14, Verifying, Enhancement, Issue Description** ● **15, Closed, Enhancement, Issue Description**
Test 3: Save File (UC3)	Preconditions: Test 2 passed 1. Click **File**, then click **Save** 2. Select the test-files folder and enter the filename saved_issue_list.txt (can overwrite if needed) 3. *Check results* 4. Close GUI	In Eclipse, right click on the IssueManager project and select **Refresh.** Open the test-files folder and open saved_issue_list.txt in the editor. The contents should be: *1,New,Enhancement,Issue description,,false, -[New] Note 1 *3,Confirmed,Bug,Issue description,,true, -[New] Note 1 -[Confirmed] Note 2	**The contents of saved_issue_list are the following:** ***1,New,Enhancement,Issue description,null,false,** **-[New] Note 1** ***3,Confirmed,Bug,Issue description,null,true,** **-[New] Note 1** **-[Confirmed] Note 2** **that goes on a new line** ***7,Working,Bug,Issue description,owner,true,** **-[New] Note 1** **-[Confirmed] Note 2**

		that goes on a new line *7,Working,Bug,Issue description,owner,true, -[New] Note 1 -[Confirmed] Note 2 -[Working] Note 3 *14,Verifying,Enhancement,Issue description,owner,false,Fixed -[New] Note 1 -[Working] Note 2 that goes on a new line -[Verifying] Note 3 *15,Closed,Enhancement,Issue description,owner,false,WontFix -[New] Note 1 that goes on a new line -[Working] Note 2 -[Verifying] Note 3 -[Working] Note 4 -[Verifying] Note 5 -[Closed] Note 6	**-[Working] Note 3** ***14,Verifying,Enhancement,Issue description,owner,false,Fixed** **-[New] Note 1** **-[Working] Note 2** **that goes on a new line** **-[Verifying] Note 3** ***15,Closed,Enhancement,Issue description,owner,false,WontFix** **-[New] Note 1** **that goes on a new line** **-[Working] Note 2** **-[Verifying] Note 3** **-[Working] Note 4** **-[Verifying] Note 5** **-[Closed] Note 6**
Test 4: Create New Issue List (UC1)	Preconditions: Test 2 passed 1. Click **File**, then click **New** 2. *Check results* 3. Close GUI	The issues previously listed in the Issue Manager are gone. There is only an empty list now.	**The Issue Manager becomes empty.**
Test 5: List Enhancements (UC5)	Preconditions: Test 2 passed 1. Click **List Enhancements** 2. *Check results* 3. Close GUI	The issues in the display are only enhancement type. The following is shown: ● 1, New, Enhancement, Issue Description ● 14, Verifying, Enhancement, Issue Description ● 15, Closed, Enhancement, Issue Description	**The issues in the display are only enhancement type. The following is shown:** ● **1, New, Enhancement, Issue Description** ● **14, Verifying, Enhancement, Issue Description** ● **15, Closed, Enhancement, Issue Description**

Test 6: List Bugs (UC6)	Preconditions: Test 2 passed 1. Click **List Bugs** 2. *Check results* 3. Close GUI	The issues in the display are only bug type. The following is shown: ● 3, Confirmed, Bug, Issue Description ● 7, Working, Bug, Issue Description	**The issues in the display are only bug type. The following is shown:** ● **3, Confirmed, Bug, Issue Description** ● **7, Working, Bug, Issue Description**
Test 7: List All Issues (UC4)	Preconditions: Test 2 and 5 passed 1. Click **Show All Issues** 2. *Check results* 3. Close GUI	The issues in the display show the original full list. The following is shown: ● 1, New, Enhancement, Issue Description ● 3, Confirmed, Bug, Issue Description ● 7, Working, Bug, Issue Description ● 14, Verifying, Enhancement, Issue Description ● 15, Closed, Enhancement, Issue Description	**The issues in the display show the original full list. The following is shown:** ● **1, New, Enhancement, Issue Description** ● **3, Confirmed, Bug, Issue Description** ● **7, Working, Bug, Issue Description** ● **14, Verifying, Enhancement, Issue Description** ● **15, Closed, Enhancement, Issue Description**

			Issue Manager — File Show All Issues / List Enhancements / List Bugs Add New Issue / Delete Selected Issue / Edit Selected Issue Issue ID / Issue State / Issue Type / Issue Summary 1 / New / Enhancement / Issue description 3 / Confirmed / Bug / Issue description 7 / Working / Bug / Issue description 14 / Verifying / Enhancement / Issue description 15 / Closed / Enhancement / Issue description
Test 8: Add Issue (UC 7)	Preconditions: Test 2 passed 1. Click **Add New Issue** 2. In the drop down for Issue Type, select Bug. 3. In the Issue Summary section, type "A new issue". 4. Click **Add Issue to List** 5. *Check results* 6. Click **OK** 7. In the Issue Note section, type "Something went wrong". 8. Click **Add Issue to List** 9. *Check results* 10. Close GUI	A pop-up window appears and states "Issue cannot be created." User is returned to the Add New Issue window. The new bug has been added to the issue list, which displays the following: ● 1, New, Enhancement, Issue Description ● 3, Confirmed, Bug, Issue Description ● 7, Working, Bug, Issue Description ● 14, Verifying, Enhancement, Issue Description ● 15, Closed, Enhancement, Issue Description ● 16, New, Bug, A new issue	**Pop-up window stating "Issue cannot be created." appears.** Message ✕ ⓘ Issue cannot be created. OK **User is returned to the Add New Issue window.** **The new bug has been added to the issue list, which displays the following:** ● **1, New, Enhancement, Issue Description** ● **3, Confirmed, Bug, Issue Description** ● **7, Working, Bug, Issue Description** ● **14, Verifying, Enhancement, Issue Description** ● **15, Closed, Enhancement, Issue Description** ● **16, New, Bug, A new issue**

Test 9: Delete Issue (UC 8)	Preconditions: Test 2 passed. 1. Click **Delete Selected Issue** 2. *Check results* 3. Click **OK** 4. Select the 2nd row in the issue list (3, Confirmed, Bug, Issue description). 5. Click **Delete Selected Issue** 6. *Check results* 7. Close GUI	A pop-up window appears and states "No issue selected." User is returned to the list with no changes. The issue list now shows the following: ● 1, New, Enhancement, Issue Description ● 7, Working, Bug, Issue Description ● 14, Verifying, Enhancement, Issue Description ● 15, Closed, Enhancement, Issue Description	**Pop-up window stating "No issue selected." appears.** **Returned to the list with no changes.** **The issue list now shows the following:** ● **1, New, Enhancement, Issue Description** ● **7, Working, Bug, Issue Description** ● **14, Verifying, Enhancement, Issue Description** ● **15, Closed, Enhancement, Issue Description**
Test 10: Edit Issue from New to Working State (UC9-10)	Preconditions: Test 2 passed. 1. Click **Edit Selected Issue** 2. *Check results* 3. Click **OK** 4. Select the 1st row in the issue list (1, New,	A pop-up window appears and states "No issue selected." User is returned to the list with no changes. User is taken to new interface to edit issue.	**Pop-up window stating "No issue selected." appears.**

	Enhancement, Issue description) 5. Click **Edit Selected Issue** 6. In the Commands section, enter "owner" in the Owner Id box. 7. Click **Assign** 8. *Check results* 9. Click **OK** 10. In the Commands section, enter "Note 2" in the Note box. 11. Click **Assign** 12. *Check results* 13. Select the 1st row in the issue list (1, New, Enhancement, Issue description) 14. Click **Edit Selected Issue** 15. *Check results* 16. Click **Cancel** 17. Close GUI	A pop-up window appears and states "Invalid information." User is returned to the current interface . The issue list now shows the following: ● 1, Working, Enhancement, Issue Description ● 3, Confirmed, Bug, Issue Description ● 7, Working, Bug, Issue Description ● 14, Verifying, Enhancement, Issue Description ● 15, Closed, Enhancement, Issue Description In the edit issue interface, the issue state says Working and the Notes section says the following: -[New] Note 1 -[Working] Note 2	**A pop-up window stating "Invalid information." appears.** **The issue list now shows the following:** ● **1, Working, Enhancement, Issue Description** ● **3, Confirmed, Bug, Issue Description** ● **7, Working, Bug, Issue Description** ● **14, Verifying, Enhancement, Issue Description** ● **15, Closed, Enhancement, Issue Description** **In the edit issue interface, the issue state says Working and the Notes section says the following:** **-[New] Note 1** **-[Working] Note 2**
Test 11: Edit Issue from New to Confirmed (UC10)	Preconditions: Test 2 and 8 passed. 1. Select the last row in the issue list (16, New, Bug, A new issue) 2. Click **Edit Selected Issue** 3. In the Commands section, enter "owner" in the Owner Id box.	The issue list now displays the following: ● 1, New, Enhancement, Issue Description ● 3, Confirmed, Bug, Issue Description ● 7, Working, Bug, Issue Description ● 14, Verifying, Enhancement, Issue Description ● 15, Closed, Enhancement, Issue Description ● 16, Confirmed, Bug, A new issue	**The issue list now displays the following:** ● **1, New, Enhancement, Issue Description** ● **3, Confirmed, Bug, Issue Description** ● **7, Working, Bug, Issue Description** ● **14, Verifying, Enhancement, Issue Description** ● **15, Closed, Enhancement, Issue Description** ● **16, Confirmed, Bug, A new issue**

	4. In the Commands section, enter "Note 2" in the Note box. 5. Click **Confirm** 6. *Check results* 7. Close GUI		
Test 12: Edit Issue from New to Closed (UC10)	Preconditions: Test 2 passed. 1. Select the 1st row in the issue list (1, New, Enhancement,Issue description) 2. Click **Edit Selected Issue** 3. In the Commands section, enter "owner" in the Owner Id box. 4. In the Commands section, enter "Note 2" in the Note box. 5. In the Commands section, select any option from the resolution box. 6. Click **Resolve** 7. *Check results* 8. Close GUI	The issue list now displays the following: ● 1, Closed, Enhancement, Issue Description ● 3, Confirmed, Bug, Issue Description ● 7, Working, Bug, Issue Description ● 14, Verifying, Enhancement, Issue Description ● 15, Closed, Enhancement, Issue Description	**The issue list now displays the following:** ● **1, Closed, Enhancement, Issue Description** ● **3, Confirmed, Bug, Issue Description** ● **7, Working, Bug, Issue Description** ● **14, Verifying, Enhancement, Issue Description** ● **15, Closed, Enhancement, Issue Description**
Test 13: Edit Issue from Working to Verifying (UC11)	Preconditions: Test 2 passed. 1. Select the 3rd row in the issue list (7, Working, Bug, Issue description) 2. Click **Edit Selected Issue** 3. In the Commands section, select "Fixed" from the resolution box.	The issue list now displays the following: ● 1, New, Enhancement, Issue Description ● 3, Confirmed, Bug, Issue Description ● 7, Verifying, Bug, Issue Description ● 14, Verifying, Enhancement, Issue Description ● 15, Closed, Enhancement, Issue Description	**The issue list now displays the following:** ● **1, New, Enhancement, Issue Description** ● **3, Confirmed, Bug, Issue Description** ● **7, Verifying, Bug, Issue Description** ● **14, Verifying, Enhancement, Issue Description** ● **15, Closed, Enhancement, Issue Description**

	4. In the Commands section, enter "Note 4" in the Note box. 5. Click **Resolve** 6. *Check results* 7. Close GUI		
Test 14: Edit Issue from Working to Closed (UC11)	Preconditions: Test 2 passed. 1. Select the 3rd row in the issue list (7, Working, Bug, Issue description) 2. Click **Edit Selected Issue** 3. In the Commands section, select "Duplicate" from the resolution box. 4. In the Commands section, enter "Note 4" in the Note box. 5. Click **Resolve** 6. *Check results* 7. Close GUI	The issue list now displays the following: ● 1, New, Enhancement, Issue Description ● 3, Confirmed, Bug, Issue Description ● 7, Closed, Bug, Issue Description ● 14, Verifying, Enhancement, Issue Description ● 15, Closed, Enhancement, Issue Description	**Issue list now displays the following:** ● **1, New, Enhancement, Issue Description** ● **3, Confirmed, Bug, Issue Description** ● **7, Closed, Bug, Issue Description** ● **14, Verifying, Enhancement, Issue Description** ● **15, Closed, Enhancement, Issue Description**
Test 15: Edit Issue from Verifying to Closed (UC13)	Preconditions: Test 2 passed. 1. Select the 4th row in the issue list (14, Verifying, Enhancement, Issue description) 2. Click **Edit Selected Issue** 3. In the Commands section, enter "Note 4" in the Note box. 4. Click **Verify** 5. *Check results* 6. Close GUI	The issue list now displays the following: ● 1, New, Enhancement, Issue Description ● 3, Confirmed, Bug, Issue Description ● 7, Working, Bug, Issue Description ● 14, Closed, Enhancement, Issue Description ● 15, Closed, Enhancement, Issue Description	**The issue list now displays the following:** ● **1, New, Enhancement, Issue Description** ● **3, Confirmed, Bug, Issue Description** ● **7, Working, Bug, Issue Description** ● **14, Closed, Enhancement, Issue Description** ● **15, Closed, Enhancement, Issue Description**

Test 16: Edit issue from Verifying to Working (UC13)	Preconditions: Test 2 passed. 1. Select the 4th row in the issue list (14, Verifying, Enhancement, Issue description) 2. Click **Edit Selected Issue** 3. In the Commands section, enter "Note 4" in the Note box. 4. Click **Reopen** 5. *Check results* 6. Close GUI	The issue list now displays the following: ● 1, New, Enhancement, Issue Description ● 3, Confirmed, Bug, Issue Description ● 7, Working, Bug, Issue Description ● 14, Working, Enhancement, Issue Description ● 15, Closed, Enhancement, Issue Description	**The issue list now displays the following:** ● **1, New, Enhancement, Issue Description** ● **3, Confirmed, Bug, Issue Description** ● **7, Working, Bug, Issue Description** ● **14, Working, Enhancement, Issue Description** ● **15, Closed, Enhancement, Issue Description**
Test 17: Edit issue from Confirmed to working (UC12)	Preconditions: Test 2 passed. 1. Select the 2nd row in the issue list (3, Confirmed, Bug, Issue description) 2. Click **Edit Selected Issue** 3. In the Commands section, enter "owner" in the Owner Id box. 4. In the Commands section, enter "Note 3" in the Note box. 5. Click **Assign** 6. *Check results* 7. Close GUI	The issue list now displays the following: ● 1, New, Enhancement, Issue Description ● 3, Working, Bug, Issue Description ● 7, Working, Bug, Issue Description ● 14, Verifying, Enhancement, Issue Description ● 15, Closed, Enhancement, Issue Description	**The issue list now displays the following:** ● **1, New, Enhancement, Issue Description** ● **3, Working, Bug, Issue Description** ● **7, Working, Bug, Issue Description** ● **14, Verifying, Enhancement, Issue Description** ● **15, Closed, Enhancement, Issue Description**

Test 18: Edit issue from Confirmed to Closed (UC12)	Preconditions: Test 2 passed. 1. Select the 2nd row in the issue list (3, Confirmed, Bug, Issue description) 2. Click **Edit Selected Issue** 3. In the Commands section, select the "Won't Fix" resolution. 4. In the Commands section, enter "Note 3" in the Note box. 5. Click **Resolve** 6. *Check results* 7. Close GUI	The issue list now displays the following: ● 1, New, Enhancement, Issue Description ● 3, Closed, Bug, Issue Description ● 7, Working, Bug, Issue Description ● 14, Verifying, Enhancement, Issue Description ● 15, Closed, Enhancement, Issue Description	**The issue list now displays the following:** ● **1, New, Enhancement, Issue Description** ● **3, Closed, Bug, Issue Description** ● **7, Working, Bug, Issue Description** ● **14, Verifying, Enhancement, Issue Description** ● **15, Closed, Enhancement, Issue Description**
Test 19: Edit issue from Closed to Working (UC14)	Preconditions: Test 2 passed. 1. Select the 5th row in the issue list (15, Closed, Enhancement, Issue description) 2. Click **Edit Selected Issue** 3. In the Commands section, enter "Note 7" in the Note box. 4. Click **Reopen** 5. *Check results* 6. Close GUI	The issue list now displays the following: ● 1, New, Enhancement, Issue Description ● 3, Confirmed, Bug, Issue Description ● 7, Working, Bug, Issue Description ● 14, Verifying, Enhancement, Issue Description ● 15, Working, Enhancement, Issue Description	**The issue list now displays the following:** ● **1, New, Enhancement, Issue Description** ● **3, Confirmed, Bug, Issue Description** ● **7, Working, Bug, Issue Description** ● **14, Verifying, Enhancement, Issue Description** ● **15, Working, Enhancement, Issue Description**