

# IssueManager System Test Plan

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## Introduction

These system test cases test the fundamental processes in the Issue Manager application. Test cases will focus testing the proper states of Issues, and ensure they are functioning as expected.

To run the tests:

1. Right click on the IssueManagerGUI class in the package explorer.
2. Select Run As > Java Application

When loading files, all files will be in the test-files folder. Contents of each file will contain:

valid\_issues.txt:

```
*1,New,Enhancement,Issue description,,false,
-[New] Note 1
*2,New,Bug,Issue description,,false,
-[New] Note 1
*4,Closed,Enhancement,Issue description,,false,WontFix
-[New] Note 1
-[Closed] Note 2
*7,Verifying,Bug,Issue description,owner,true,Fixed
-[New] Note 1
-[Confirmed] Note 2
-[Working] Note 3
-[Verifying] Note 4
*15,Verifying,Enhancement,Issue description,owner,false,Fixed
-[New] Note 1
extra line
-[Working] Note 2
-[Verifying] Note 3
*21,Confirmed,Bug,Issue description,,true,
-[New] Note 1
-[Confirmed] Note 2
*25,Closed,Bug,Issue description,,true,WontFix
-[New] Note 1
-[Confirmed] Note 2
-[Closed] Note 3
```

invalid\_issues.txt:

```
*1,New,Enhancement,Issue description,,false,
-[New] Note 1
*0,New,Bug,Issue description,,false,
-[New] Note 1
*5,New,Bug,Issue description,,false,
-1,New,Enhancement,Issue description,,false,
-[New] Note 1
*21,Confirmed,Bug,Issue description,,true,
-[New] Note 1
-[Confirmed] Note 2
*24,Verifying,Bug,,
```

-[New] Note 1  
 -[Confirmed] Note 2  
 -[Working] Note 3  
 -[Verifying] Note 4  
 \*27,New,Bug,Issue,description,,false,  
 -[New] Note 1  
 \*28,State,Enhancement,Issue description,,false,  
 -[New] Note 1  
 \*30,Closed,Bug,Issue description,,true,WontFix  
 -[New] Note 1  
 -[Confirmed] Note 2  
 -[Closed] Note 3  
 \*35,New,Type,Issue description,,true,  
 -[New] Note 1  
 \*37,Working,Enhancement,Issue description,,false,  
 -[New] Note 1  
 -[Working] Note 2  
 \*39,Closed,Bug,Issue description,,false,  
 -[New] Note 1  
 -[Closed] Note 2  
 \*39,Confirmed,Enhancement,Issue description,,true,  
 -[New] Note 1  
 -[Confirmed] Note 2  
 \*40,Working,Bug,Issue description,owner,false,  
 -[New] Note 1  
 -[Confirmed] Note 2  
 -[Working] Note 3  
 \*41,Verifying,Bug,Issue description,owner,true,WorksForMe  
 -[New] Note 1  
 -[Confirmed] Note 2  
 -[Working] Note 3  
 -[Verifying] Note 4  
 \*45,Closed,Enhancement,Issue description,,false,  
 -[New] Note 1  
 -[Closed] Note 2  
 \*47,New,Bug,Issue description,,false,

Test ID	Description	Expected Results	Actual Results
Test 1: Load Valid Issue File (UC2)  Author: Michael Abrams	<b>Preconditions: None</b>  <ol style="list-style-type: none"> <li>1. Run IssueManagerGUI</li> <li>2. Click File in the upper right corner</li> <li>3. Select "Load" from the listed options</li> <li>4. Navigate into "test-files/" and load valid_issues.txt</li> <li>5. Observe results</li> <li>6. Close GUI</li> </ol>	Step 5 Results:  7 Issues are listed in the manager with the issue's id, state, type, and summary: <ul style="list-style-type: none"> <li>• 1,New,Enhancement,Issue description</li> <li>• 2,New,Bug,Issue description</li> <li>• 4,Closed,Enhancement,Issue description</li> <li>• 7,Verifying,Bug,Issue description</li> </ul>	Step 5 Results:  All issues were loading in the correct order with the correct states.

		<ul style="list-style-type: none"> <li>• 15,Verifying,Enhancement,Issue description</li> <li>• 21,Confirmed,Bug,Issue description</li> <li>• 25,Closed,Bug,Issue description</li> </ul>	
Test 2: Load Invalid Issue File  (UC2 – Invalid Format)  Author: Michael Abrams	<b>Preconditions: None</b>  <ol style="list-style-type: none"> <li>1. Run IssueManagerGUI</li> <li>2. Click File in the upper right corner</li> <li>3. Select “Load” from the listed options</li> <li>4. Navigate into “test-files/” and load invalid_issues.txt</li> <li>5. Observe results</li> <li>6. Close GUI</li> </ol>	The IssueManagerGUI successfully loaded.  Step 5 Results:  A pop up stating, “Unable to load file.”	Step 5 Results,  The file was not able to be loaded and a box appeared stating, “Unable to load file.”
Test 3: Add New Issue  (UC7)  Author: Michael Abrams	<b>Preconditions: None</b>  <ol style="list-style-type: none"> <li>1. Run IssueManagerGUI</li> <li>2. Click File in the upper right corner</li> <li>3. Select “Load” from the listed options</li> <li>4. Navigate into “test-files/” and load valid_issues.txt</li> <li>5. Select Add an Issue</li> <li>6. Fill in details:               <ul style="list-style-type: none"> <li>• Issue Type: Bug</li> <li>• Issue Summary: A new issue</li> <li>• Issue Note: “Something went very wrong”</li> </ul> </li> <li>7. Click “Add Issue to List”</li> <li>8. Observe results</li> <li>9. Close GUI</li> </ol>	The IssueManagerGUI successfully loaded.  Step 8 Results:  The 8 <sup>th</sup> issue was successfully added as type bug. Issue Manager reads: <ul style="list-style-type: none"> <li>• 1,New,Enhancement,Issue description</li> <li>• 2,New,Bug,Issue description</li> <li>• 4,Closed,Enhancement,Issue description</li> <li>• 7,Verifying,Bug,Issue description</li> <li>• 15,Verifying,Enhancement,Issue description</li> <li>• 21,Confirmed,Bug,Issue description</li> <li>• 25,Closed,Bug,Issue description</li> <li>• 26,New,Bug,A new issue</li> </ul>	The IssueManagerGUI loaded.  Step 8 Results:  The new issue was added as type bug, with the expected fields. The id is exactly 1 greater than the previous highest and appended to the end of the list.
Test 4: Edit Issue Type New  (UC10)  Author: Michael Abrams	<b>Preconditions: None</b>  <ol style="list-style-type: none"> <li>1. Run IssueManagerGUI</li> <li>2. Click File in the upper right corner</li> <li>3. Select “Load” from the listed options</li> <li>4. Navigate into “test-files/” and load valid_issues.txt</li> <li>5. Select the issue with id “1”</li> </ol>	The IssueManagerGUI successfully loads.  7 Issues are displayed in the IssueManager. They read: <ul style="list-style-type: none"> <li>• 1,Closed,Enhancement,Issue</li> </ul>	The IssueManagerGUI successfully loads.  The Enhancement with id 1 is successfully updated to the closed state

	(1,New,Enhancement,Issue) 6. <b>Press edit selected issue</b> 7. <b>Select WontFix for the resolution</b> 8. <b>Enter in the note, "Enhancement is too complicated"</b> 9. <b>Select Resolve</b> 10. <b>Observe Results</b>	description <ul style="list-style-type: none"> <li>• 2,New,Bug,Issue description</li> <li>• 4,Closed,Enhancement,Issue description</li> <li>• 7,Verifying,Bug,Issue description</li> <li>• 15,Verifying,Enhancement,Issue description</li> <li>• 21,Confirmed,Bug,Issue description</li> <li>• 25,Closed,Bug,Issue description</li> <li>• 26,New,Bug,A new issue</li> </ul>	and remains in the list of issues.
Test 5: List Only Enhancements  (UC5)  Author: Michael Abrams	<b>Preconditions: None</b>  1. <b>Run IssueManagerGUI</b> 2. <b>Click File in the upper right corner</b> 3. <b>Select "Load" from the listed options</b> 4. <b>Navigate into "test-files/" and load valid_issues.txt</b> 5. <b>Select the button "List Enhancements"</b> 6. <b>Observe Results</b>	The IssueManagerGUI successfully loads.  The IssueManager reads: <ul style="list-style-type: none"> <li>• 1,New,Enhancement,Issue description</li> <li>• 4,Closed,Enhancement,Issue description</li> <li>• 15,Verifying,Enhancement,Issue description</li> </ul>	The IssueManagerGUI successfully loads.  All bugs are filtered out and the issue manager displays the expected enhancements.

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#### Document Revision History

Date	Author	Change Description
2/16/2022	Michael Abrams	• Added Test Cases for the STP.
2/17/2022	Michael Abrams	• Correct valid file, for more accurate notes on issues.
3/9/2022	Michael Abrams	• Ran the tests for the actual results