

# Scrum Backlog Black Box Test Plan

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## Introduction

Scrum is an agile and iterative software development process that is commonly used in industry. One of the important concepts in Scrum is the backlog of tasks that need to be completed. These tasks may be 1) features that need to be implemented, 2) bugs that need to be fixed, 3) technical work like refactoring, or 4) knowledge acquisition to complete other tasks. As tasks are created, they are added to a backlog. Team members then claim the tasks that they will work on. Only one task is worked on at a time and the task may require verification by another team member before the task is completed.

The black box test plan describes tests for a file with correct formatting, correct encryption functionality, and correct decryption functionality. The contents of the files described are summarized in the Required Files section.

The program is started by running the ScrumBacklogGUI class (as shown in the Design Proposal).

Test ID	Description	Expected Results	Actual Results
Test 1: Valid File (Selena)	<b>Preconditions:</b> None  Run ScrumBacklogGUI.  Click <b>File &gt; Load</b> .  Select <code>test-files/tasks_valid.xml</code> to load.  Check results.  Close GUI.	ScrumBacklogGUI loads.  Task List contains 6 tasks: <ul style="list-style-type: none"><li>1, Backlog, Express Carts</li><li>2, Owned, Regular Carts</li><li>3, Processing, Java Swing</li><li>4, Verifying, Calculating Wait Time</li><li>5, Done, Special Carts</li><li>6, Rejected, Flatbed carts</li></ul>	ScrumBacklogGUI loads.  Task List contains 6 tasks: <ul style="list-style-type: none"><li>1, Backlog, Express Carts</li><li>2, Owned, Regular Carts</li><li>3, Processing, Java Swing</li><li>4, Verifying, Calculating Wait Time</li><li>5, Done, Special Carts</li><li>6, Rejected, Flatbed carts</li></ul>
Test 2: Add Invalid Task (Selena)	<b>Preconditions:</b> Test 1 has passed  Click <b>Add New Task</b> .  Enter the following in the New Task Information section: <ul style="list-style-type: none"><li>Task Title:</li><li>Ticket Type: Bug</li><li>Task Creator: sesmith5</li><li>Task Notes: The AutomatSimulation GUI won't load when running as a Java application. The error message states that there's a major minor error.</li></ul> Click <b>Add Task to Backlog</b> .  Check results.  Close GUI.	A pop-up dialog stating "Invalid task information." Is displayed.	A pop-up dialog stating "Invalid task information." Is displayed.

Test 3: Add Valid Task (Selena)	<p><b>Preconditions:</b> Test 1 has passed</p> <p>Click <b>Add New Task</b>.</p> <p>Enter the following in the New Ticket Information section:</p> <ul style="list-style-type: none"> <li>Task Title: Automata Simulation won't load</li> <li>Ticket Type: Bug</li> <li>Task Creator: sesmith5</li> <li>Task Notes: The AutomataSimulation GUI won't load when running as a Java application. The error message states that there's a major minor error.</li> </ul> <p>Click <b>Add Task to Backlog</b>.</p> <p>Check results.</p> <p>Close GUI.</p>	<p>Task List contains 7 tasks:</p> <ul style="list-style-type: none"> <li>1, Backlog, Express Carts</li> <li>2, Owned, Regular Carts</li> <li>3, Processing, Java Swing</li> <li>4, Verifying, Calculating Wait Time</li> <li>5, Done, Special Carts</li> <li>6, Rejected, Flatbed carts</li> <li>7, Backlog, Automata Simulation won't load</li> </ul>	<p>Task List contains 7 tasks:</p> <ul style="list-style-type: none"> <li>1, Backlog, Express Carts</li> <li>2, Owned, Regular Carts</li> <li>3, Processing, Java Swing</li> <li>4, Verifying, Calculating Wait Time</li> <li>5, Done, Special Carts</li> <li>6, Rejected, Flatbed carts</li> <li>7, Backlog, Automata Simulation won't load</li> </ul>
Test 4: Delete Unselected Task (Selena)	<p><b>Preconditions:</b> Test 1 has passed</p> <p>Make sure that no row in the Task List is selected (if there is a row selected, restart the test).</p> <p>Click <b>Delete Selected Task</b>.</p> <p>Check results.</p> <p>Close GUI.</p>	A pop-up dialog stating "No task selected." Is displayed.	A pop-up dialog stating "No task selected." Is displayed.
Test 5: Delete Selected Task (Selena)	<p><b>Preconditions:</b> Test 1 has passed</p> <p>Select the last row of the Task List (7, Backlog, Automata Simulation won't load).</p> <p>Click <b>Delete Selected Task</b>.</p> <p>Check results.</p> <p>Close GUI.</p>	<p>Task List contains 6 tasks:</p> <ul style="list-style-type: none"> <li>1, Backlog, Express Carts</li> <li>2, Owned, Regular Carts</li> <li>3, Processing, Java Swing</li> <li>4, Verifying, Calculating Wait Time</li> <li>5, Done, Special Carts</li> <li>6, Rejected, Flatbed carts</li> </ul>	<p>Task List contains 6 tasks:</p> <ul style="list-style-type: none"> <li>1, Backlog, Express Carts</li> <li>2, Owned, Regular Carts</li> <li>3, Processing, Java Swing</li> <li>4, Verifying, Calculating Wait Time</li> <li>5, Done, Special Carts</li> <li>6, Rejected, Flatbed carts</li> </ul>

#### Required Files

**tasks\_valid.xml** - Valid XML file that contains information on 6 different tasks

#### Document Revision History

Date	Author	Change Description
2/15/2019	Selena Chen	<ul style="list-style-type: none"> <li>Added 5 tests</li> </ul>
3/8/2019	Selena Chen	<ul style="list-style-type: none"> <li>Minor changes to the descriptions of some tests</li> <li>Recorded results for the 5 tests</li> </ul>