**ToDoList Black Box Test Plan**

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**Introduction**

The BBT for TodoList tests that the TodoList project runs as expected. It must be able to prove that TodoList can properly function as a program that assists users in managing the various tasks they must remember in the upcoming weeks. TodoList should be able to create new tasks and categories, organizing the tasks based on category and id. It should also be able to save todo lists, load todo lists, and create new todo lists. It should be able to handle all improper or illegal input without breaking itself or the computer it’s running on.

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| **Test 1:** Load TodoList File | **Preconditions: none**  Locate the TodoListGUI class, and right click >Run As > Java Application.  Navigate to File > Open File in the menu bar at the top of the window.  Using the File Navigator, make your way to the test-files folder. Locate todo.tdl, select it in the list, and click the Open button.  Check the GUI. | A window should open when TodoListGUI is run, displaying a top menu bar with File, Task List, Tasks, and Categories in it. Beneath it, there should be an empty window with various labels.  The file navigator should open and allow the user to find the test-files/todo.tdl file.  After clicking Open, the GUI should change to show the todo.tdl’s contents in the window beneath the top menu bar.  Contents of todo.tdl are tentative, but there should be 3 categories: Test1, Test2, Test 3. There should be one list, “FirstList”, with 3 tasks in them, Item1, Item2, Item3. | File explorer opens up, but .tdl files are not available to open. |
| **Test 2:** Create and Rename New TaskList | **Preconditions: Test 1**  Navigate to the top menu bar, and find Task List > New Task List. Select, then check results.  Make sure that you have the New List activated in the window below. Navigate to Task List > Rename Task List.  In the popup window that appears, enter “Test List”, then click the OK button.  Check results. | Upon clicking New Task List, a new tab should appear beneath the top menu bar. In it, the words “New List” should be visible. Its contents should be empty.  When Rename Task List is clicked, a popup prompt should appear asking the user to enter a new name for New List.  Upon entering the data and clicking OK, the tab that had once been labeled New List should now say “Test List” | A New List appears as specified, and can be renamed and then displayed with the new name. |
| **Test 3:**  Add a Task to the Test List | **Preconditions: Test 2**  In the top menu bar, navigate to Tasks > Add New Task.  In the bottom modial, attempt to click the “Add” button.  Enter “Test Task” in the text field labelled Task Title. Attempt to click the “Add” button  Click on the drop-down menu beneath Task ID and next to Category. Select “Test1” as the category. Attempt to click the “Add” button.  If the Start Date & Time field is accessible, adjust the time using the two arrows until it reads Fri Nov 11, 2016 14:13.  Enter “Test task note” in the text area at the very bottom of the window. Click “Add”.  Check results. | When Add New Task is selected, some of the fields at the bottom of the window should be activated and accessible by the user. Attempting to click “Add” does nothing, as the button is currently inaccessible.  For each of the following tasks until the note area, the data should be able to be entered, but the Add button should remain inactive.  Once the Task Details text area is filled, the Add button should no longer be inaccessible. When it is clicked, a new item appears beneath the list of tabs in the GUI. It should have all the data that you inputted into the modial in their respective columns. | The “Add New Tasks” selection makes the JSpinners editable, but that is all it does. |
| **Test 4:**  Edit and Complete a Task in the Test List | **Preconditions: Test 2, Test 3**  Select the newly added Test Task while the Test List tab is selectd.  In the modial below, adjust the Due Date & Time field until it reads Fri Nov 18, 2016 21:00. Click “Save”, check results.  Click on the Test Task again. Check off the Completed? Checkbox, and click save. Check results. | Upon clicking the Test Task item, the fields in the bottom half of the window should activate and be filled by what is set as the tasks’s various values.  The Due Date should be able to be adjusted. Once it is finished, the Save button should be accessible. Clicking on it changes the date beneath the Due Date column above.  Clicking on Test Task again should procure the same results as the first time. Once the box is checked off and Save is clicked again, the value beneath the Complete column should read “true” | Cannot add tasks to begin with, therefore can’t edit tasks. |
| **Test 5:**  Save the Todo List | **Preconditions: Test 1-4**  In the top menu bar, navigate to File > Save File.  In the file browser, navigate to the test-files folder. Enter the name “testfile.tdl” in the File Name text box, then click Save.  Navigate to File > Exit. Exit out of the window.  In your computer’s own file browsing window, navigate to the test-files folder and open the testfile.tdl document. Check the results. | The Save File option should be available to the user. Upon being clicked, a file navigation window should appear, and the test-files folder should be available to access.  File > Exit should end the running of the program completely.  Navigating to the test-files folder, the testfile.tdl file should be located within it. Accessing it with a file reader should show that it has the contents of the todo.tdl file loaded earlier, as well as the new list and task that had been added during testing. | “testfile.tdl” is available in the system browser. File -> Exit ends the program, as it should. |

**Document Revision History**

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| **Date** | **Author** | **Change Description** |
| **11/10/16** | Christian Byrnes | * Wrote initial Black box testing |