Project 3 Black Box Test Plan

Test Overview

To run the tests:

1. Right click on WarehouseUI class in the Package Explorer.
2. Select Run As > Java Application

All tests files should be located in the input/ folder.

The input route information file will use the following format:

```
CITY1,CITY2,DISTANCE
```

Test ID	Description	Expected Results	Actual Results
test1: invalidInputFile	**Preconditions:** **-Warehouse Manager has loaded successfully** **-UI prompts "Please enter file that contains route information: "** **Steps:** **1.The user enters "input/invallidInputFile"** **2. User clicks enter key**	**Error dialog pops up with message " File does not exist, please enter a new file: "**	**Error dialog pops up with message " File does not exist, please enter a new file: "** **User is then allowed to enter another file until the entered file is valid**
test2: validInputFiles	**Preconditions:** **-Warehouse Manager has loaded successfully** **-UI prompts "Please enter file that contains route information: "** **Steps:** **1.The user enters "input/sample.csv"**	**input file is successfully loaded** **The following text are prompted** **(1) Generate Minimum Routes to Connect Cities** **(2) Identify Potential Warehouse Cities** **(3) Quit Warehouse Manager** **Enter your choice:**	**All input files are successfully loaded** **The following text are prompted** **(1) Generate Minimum Routes to Connect Cities** **(2) Identify Potential Warehouse Cities** **(3) Quit Warehouse Manager** **Enter your choice:** **User then can enter any choices**
test3: generateMinimumRoutes	**Preconditions:** **-test2 has passed** **Steps:** **1.The user selects 1 to select "Generate Minimum Routes to Connect Cities" function**	**Minimum Routes [** **Asheville - Charlotte (131 miles)** **Charlotte - Winston Salem (83 miles)** **Durham - Raleigh (24 miles)** **Fayetteville - Rocky Mount (94 miles)** **Fayetteville - Wilmington (93 miles)** **Greenville - Rocky Mount**	**Minimum Routes [** **Asheville - Charlotte (131 miles)** **Charlotte - Winston Salem (83 miles)** **Durham - Raleigh (24 miles)** **Fayetteville - Rocky Mount (94 miles)** **Fayetteville - Wilmington (93 miles)** **Greenville - Rocky Mount**

		(42 miles) **Raleigh - Wilmington (129 miles)** **Raleigh - Winston Salem (103 miles)** **]**	**(42 miles)** **Raleigh - Wilmington (129 miles)** **Raleigh - Winston Salem (103 miles)** **]** **UI prompts for a new choice of function**
test4: identifyPotentialWarehouseCities1	**Preconditions:** **-test2 has passed** **Steps:** **1.The user selects 2 to select " Identify Potential Warehouse Cities " function** **2. UI prompts "Enter minimum number of associated routes: "** **3. User enters "1"**	**Potential Warehouse Sites with at least 1 associated routes [** **Raleigh with 3 routes** **Charlotte with 2 routes** **Fayetteville with 2 routes** **Rocky Mount with 2 routes** **Wilmington with 2 routes** **Winston Salem with 2 routes** **Asheville with 1 routes** **Durham with 1 routes** **Greenville with 1 routes** **]**	**Potential Warehouse Sites with at least 1 associated routes [** **Raleigh with 3 routes** **Charlotte with 2 routes** **Fayetteville with 2 routes** **Rocky Mount with 2 routes** **Wilmington with 2 routes** **Winston Salem with 2 routes** **Asheville with 1 routes** **Durham with 1 routes** **Greenville with 1 routes** **]** **UI prompts for a new choice of function**
test5: identifyPotentialWarehouseCities2	**Preconditions:** **-test2 has passed** **Steps:** **1.The user selects 2 to select " Identify Potential Warehouse Cities " function** **2. UI prompts "Enter minimum number of associated routes: "** **3. User enters "2"**	**Potential Warehouse Sites with at least 2 associated routes [** **Raleigh with 3 routes** **Charlotte with 2 routes** **Fayetteville with 2 routes** **Rocky Mount with 2 routes** **Wilmington with 2 routes** **Winston Salem with 2 routes** **]**	**Potential Warehouse Sites with at least 2 associated routes [** **Raleigh with 3 routes** **Charlotte with 2 routes** **Fayetteville with 2 routes** **Rocky Mount with 2 routes** **Wilmington with 2 routes** **Winston Salem with 2 routes** **]** **The UI then again asks for another choice of function**
test6: identifyPotentialWarehouseCities3	**Preconditions:** **-test2 has passed** **Steps:** **1.The user selects 2 to select " Identify Potential Warehouse Cities " function** **2. UI prompts "Enter minimum number of associated routes: "** **3. User enters "3"**	**Potential Warehouse Sites with at least 3 associated routes [** **Raleigh with 3 routes** **]**	**Potential Warehouse Sites with at least 3 associated routes [** **Raleigh with 3 routes** **]** **The UI then again asks for another choice of function**
test7: getMostValuableCustomersReport4	**Preconditions:** **-test2 has passed** **Steps:**	**No warehouse locations identified.**	**No warehouse locations identified.** **The UI then again asks for**

	1.The user selects 2 to select " Identify Potential Warehouse Cities " function **2. UI prompts "Enter minimum number of associated routes: "** **3. User enters "4"**		**another choice of function**
test8: invalidStringChoice	**Preconditions:** **-test2 has passed** **Steps:** **1.The user enters "invalidchoice" as input**	**The UI returns "Invalid choice." Then is prompted again for a new input**	**The UI returns "Invalid choice." Then is prompted again for a new input**
test9: invalidIntegerChoice	**Preconditions:** **-test2 has passed** **Steps:** **1.The user enters "10" as input**	**The UI returns "Invalid choice." Then is prompted again for a new input**	**The UI returns "Invalid choice." Then is prompted again for a new input**
test10: quitProgram	**Preconditions:** **-test2 has passed** **Steps:** **1.The user enters "3" as input**	**The UI returns "GoodBye!!!"** **Then the program stops**	**The UI returns "GoodBye!!!"** **Then the program stops**