# Lab 2: Black Box Test Plan

To run the tests:

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**CSC 216-651, Tetterton**

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

The program will load to the main Directory GUI.

All tests files are located in the test-files/ folder.

Note that while all tests end with the statement to Close GUI, you can run Tests 2-15 on the same GUI if there are no failures. If there are failures, you can use the preconditions to identify the dependent test cases.

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| Test 1: Invalid File | Preconditions: None  Run StudentDirectoryPanel.  In the **Load Student Directory** FileChooser dialog select: test-files/invalid\_student\_records.txt  Click **Select**  *Check results*  Close GUI | StudentDirectoryPanel loads  Student Directory table is empty  Student Information fields are blank with labels only | **StudentDirectoryPanel loads**  **Student Directory table is empty**  **Student Information fields are blank with labels only** |
| Test 2: Valid File | Preconditions: None  Run StudentDirectoryPanel.  In the **Load Student Directory** FileChooser dialog select: test-files/student\_records.txt  Click **Select**  *Check results*  Close GUI | StudentDirectoryPanel loads  Student Directory contains 10 students   * Zahir, King, zking * Cassandra, Schwartz, cschwartz * Shannon, Hansen, shansen * Demetrius, Austin, daustin * Raymond, Brennan, rbrennan * Emerald, Frost, efrost * Lane, Berg, lberg * Griffith, Stone, gstone * Althea, Hicks, ahicks * Dylan, Nolan, dnolan   Student Information fields are empty with only labels | **StudentDirectoryPanel loads**  **Student Directory contains 10 students**   * **Zahir, King, zking** * **Cassandra, Schwartz, cschwartz** * **Shannon, Hansen, shansen** * **Demetrius, Austin, daustin** * **Raymond, Brennan, rbrennan** * **Emerald, Frost, efrost** * **Lane, Berg, lberg** * **Griffith, Stone, gstone** * **Althea, Hicks, ahicks** * **Dylan, Nolan, dnolan**   **Student Information fields are empty with only labels** |
| Test 3:  Remove Empty Student | Preconditions: Test 2 has passed  Ensure that no student in the directory is selected. If one is, restart the GUI.  Click **Remove Student**  *Check results*  Close GUI | A pop-up dialog stating “No student selected.” is displayed. | **Dialog box pops up labeled “Message” stating “No student selected.” with “OK” and “X” buttons.**  **Clicking “OK” closes the dialog box and makes no other changes.** |
| Test 4: Add Valid Student | Preconditions: Test 2 has passed  Fill in the following for Student Information:  **First Name:** Fred  **Last Name:** Weasley  **ID:** fweasle  **Email:** fweasle@ncsu.edu  **Password:** mischiefmanaged  **Repeate Password:** mischiefmanaged  **Max Credits:** 12  Click **Add Student**  *Check results*  Close GUI | Student Directory contains 11 students   * Zahir, King, zking * Cassandra, Schwartz, cschwartz * Shannon, Hansen, shansen * Demetrius, Austin, daustin * Raymond, Brennan, rbrennan * Emerald, Frost, efrost * Lane, Berg, lberg * Griffith, Stone, gstone * Althea, Hicks, ahicks * Dylan, Nolan, dnolan * Fred, Weasley, fweasle   Student Information fields are empty with only labels | **Student Directory contains 11 students**   * **Zahir, King, zking** * **Cassandra, Schwartz, cschwartz** * **Shannon, Hansen, shansen** * **Demetrius, Austin, daustin** * **Raymond, Brennan, rbrennan** * **Emerald, Frost, efrost** * **Lane, Berg, lberg** * **Griffith, Stone, gstone** * **Althea, Hicks, ahicks** * **Dylan, Nolan, dnolan** * **Fred, Weasley, fweasle**   **Student Information fields are empty with only labels** |
| Test 5: Add Blank Student | Preconditions: Test 2 has passed  Make sure no information is entered in any of the Student Information fields.  Click **Add Student**  *Check results*  Close GUI | A pop-up dialog stating “Max Credits must be a positive number between 3 and 18.” is displayed. | **Dialog box pops up labeled “Message” stating “Max Credits must be a positive number between 3 and 18.” with “OK” and “X” buttons.**  **Clicking “OK” closes the dialog box and makes no other changes.** |
| Test 6: Add Duplicate Student ID | Preconditions: Test 2 and Test 4 have passed  Fill in the following for Student Information:  **First Name:** George  **Last Name:** Weasley  **ID:** fweasle  **Email:** gweasle@ncsu.edu  **Password:** maurader  **Repeate Password:** maurader  **Max Credits:** 12  Click **Add Student**  *Check results*  Close GUI | A pop-up dialog stating “Student already in system.” is displayed.  Student information fields remain filled in. | **Dialog box pops up labeled “Message” stating “Student already in system.” with “OK” and “X” buttons.**  **Clicking “OK” closes the dialog box and makes no other changes.**  **Student information fields remain populated.** |
| Test 7a: Remove Student | Preconditions: Test 2 and Test 6 have passed  Change the **ID** field to “gweasle”  Click **Add Student**  *Check results* | Student Directory contains 12 students   * Zahir, King, zking * Cassandra, Schwartz, cschwartz * Shannon, Hansen, shansen * Demetrius, Austin, daustin * Raymond, Brennan, rbrennan * Emerald, Frost, efrost * Lane, Berg, lberg * Griffith, Stone, gstone * Althea, Hicks, ahicks * Dylan, Nolan, dnolan * Fred, Weasley, fweasle * George, Weasley, gweasle   Student Information fields are empty with only labels | **Student Directory contains 12 students**   * **Zahir, King, zking** * **Cassandra, Schwartz, cschwartz** * **Shannon, Hansen, shansen** * **Demetrius, Austin, daustin** * **Raymond, Brennan, rbrennan** * **Emerald, Frost, efrost** * **Lane, Berg, lberg** * **Griffith, Stone, gstone** * **Althea, Hicks, ahicks** * **Dylan, Nolan, dnolan** * **Fred, Weasley, fweasle** * **George, Weasley, gweasle**   **Student Information fields are empty with only labels** |
| Test 7b: Remove Student | Preconditions: Test 2 and Test 7a have passed  Select the 11th row of the Student Directory table (Fred, Weasley, fweasle)  Click **Remove Student**  *Check results*  Close GUI | Student Directory contains 11 students   * Zahir, King, zking * Cassandra, Schwartz, cschwartz * Shannon, Hansen, shansen * Demetrius, Austin, daustin * Raymond, Brennan, rbrennan * Emerald, Frost, efrost * Lane, Berg, lberg * Griffith, Stone, gstone * Althea, Hicks, ahicks * Dylan, Nolan, dnolan * George, Weasley, gweasle   Student Information fields are empty with only labels | **Event in the schedule populates with empty Name and Section; Title is “Lunch”, Meeting Information is “MW 11:30AM-12:30PM (every 2 weeks)”** |
| Test 8: Save Student Directory | Preconditions: Test 2 and Test 7 have passed  Click **Save Student Directory**  Select test-files folder. Enter the filename actual\_student\_records.txt  Click **Save** (it’s ok to overwrite old results)  *Check results*  Close GUI | In Eclipse, right click on the PackScheduler project and select **Refresh.**  Open the test-files folder and open actual\_student\_records.txt in the editor.  The contents should be:   * Zahir,King,zking,orci.Donec@ametmassaQuisque.com,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,15 * Cassandra,Schwartz,cschwartz,semper@imperdietornare.co.uk,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,4 * Shannon,Hansen,shansen,convallis.est.vitae@arcu.ca,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,14 * Demetrius,Austin,daustin,Curabitur.egestas.nunc@placeratorcilacus.co.uk,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,18 * Raymond,Brennan,rbrennan,litora.torquent@pellentesquemassalobortis.ca,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,12 * Emerald,Frost,efrost,adipiscing@acipsumPhasellus.edu,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,3 * Lane,Berg,lberg,sociis@non.org,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,14 * Griffith,Stone,gstone,porta@magnamalesuadavel.net,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,17 * Althea,Hicks,ahicks,Phasellus.dapibus@luctusfelis.com,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,11 * Dylan,Nolan,dnolan,placerat.Cras.dictum@dictum.net,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,5 * George,Weasley,gweasle,gweasle@ncsu.edu,Ìã\_ŒŸ9\_?–ïúé„¤xm\_¦y+ÕÞ:è£G\_±³Þ•¨,12 | **Contents read:**   * **Zahir,King,zking,orci.Donec@ametmassaQuisque.com,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,15** * **Cassandra,Schwartz,cschwartz,semper@imperdietornare.co.uk,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,4** * **Shannon,Hansen,shansen,convallis.est.vitae@arcu.ca,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,14** * **Demetrius,Austin,daustin,Curabitur.egestas.nunc@placeratorcilacus.co.uk,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,18** * **Raymond,Brennan,rbrennan,litora.torquent@pellentesquemassalobortis.ca,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,12** * **Emerald,Frost,efrost,adipiscing@acipsumPhasellus.edu,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,3** * **Lane,Berg,lberg,sociis@non.org,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,14** * **Griffith,Stone,gstone,porta@magnamalesuadavel.net,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,17** * **Althea,Hicks,ahicks,Phasellus.dapibus@luctusfelis.com,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,11** * **Dylan,Nolan,dnolan,placerat.Cras.dictum@dictum.net,0ÉRú±"ÃùuŸ\_¦Ù\7X²F´þâ9•{-OîFâapÄ,5** * **George,Weasley,gweasle,gweasle@ncsu.edu,Ìã\_ŒŸ9\_?–ïúé„¤xm\_¦y+ÕÞ:è£G\_±³Þ•¨,12** |
| Test 9: Reset Directory | Preconditions: Test 2 has passed  Click **New Student Directory**  *Check results*  Close GUI | Student Directory table is empty.  Student Information fields are empty with only labels. | **Student Directory table is empty.**  **Student Information fields are empty with only labels.** |