# Lab 02: Black Box Test Plan

## Test Overview

To run the tests:

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

The Student Directory will load automatically.

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 Student Directory | Preconditions: None  Run StudentDirectoryPanel.  In the Load Student Directory file Chooser dialog select: test-files/invalid\_student\_records.txt  Click Select  Check results | StudentDirectoryPanel loads  Student Directory is empty  Student Information only shows labels | StudentDirectoryPanel loads  Student Directory is empty  Student Information only shows labels |
| Test 2: Valid File | Preconditions: None  Run StudentDirectoryPanel.  In the Load Student Directory file Chooser dialog select: test-files/student\_records.txt  Click Select  Check results  Close GUI | StudentDirectoryPanel loads  Student Directory contains 10 classes   * Demetrius, Austin, daustin * Lane, Berg, lberg * Raymond, Brennan, rbrennan * Emerald, Frost, efrost * Shannon, Hansen, shansen * Althea, Hicks, ahicks * Zahir, King, zking * Dylan, Nolan, dnolan * Cassandra, Schwartz. Cschwartz * Griffith, Stone, gstone | StudentDirectoryPanel loads  Student Directory contains 10 classes   * Demetrius, Austin, daustin * Lane, Berg, lberg * Raymond, Brennan, rbrennan * Emerald, Frost, efrost * Shannon, Hansen, shansen * Althea, Hicks, ahicks * Zahir, King, zking * Dylan, Nolan, dnolan * Cassandra, Schwartz. Cschwartz * Griffith, Stone, gstone |
| Test 3: Add - No Sel. | Preconditions: Test 2 has passed  Make sure that no row in the Student Directory table is selected (if there is a row selected, restart the GUI)  Click **Remove Student**  *Check results*  Click **OK**  Close GUI | A pop-up dialog stating “No student selected.” is displayed. | A pop-up dialog stating “No student selected.” is displayed |
| Test 4:  Add | Preconditions: Test 2 has passed  Put the following details in the Student Information:  First Name: First  Last Name: Last  ID: flast  Email:flast@ncsu.edu  Password: Pasword  Repeat Password: Password  Max Credits: 15  Click Add Student  Check results  Close GUI | Student directory displays:   * Demetrius, Austin, daustin * Lane, Berg, lberg * Raymond, Brennan, rbrennan * Emerald, Frost, efrost * Shannon, Hansen, shansen * Althea, Hicks, ahicks * Zahir, King, zking * First, Last, flast * Dylan, Nolan, dnolan * Cassandra, Schwartz. Cschwartz * Griffith, Stone, gstone | Student directory displays:   * Demetrius, Austin, daustin * Lane, Berg, lberg * Raymond, Brennan, rbrennan * Emerald, Frost, efrost * Shannon, Hansen, shansen * Althea, Hicks, ahicks * Zahir, King, zking * First, Last, flast * Dylan, Nolan, dnolan * Cassandra, Schwartz. Cschwartz * Griffith, Stone, gstone |
| Test 5:  Remove – No Selection | Preconditions: Test 2 and Test 4 have passed  Make sure no row is selected in the Student Directory table(If there is a row selected, restart the GUI)  Click Remove Student  Check Results  Click OK  Close GUI | A pop-up dialog stating “No student selected” is displayed. | A pop-up dialog stating “No student selected” is displayed. |
| Test 6:  Adding same Student | Preconditions: Test 2 and Test 4 have passed  Put the following details in the Student Information:  First Name: First  Last Name: Last  ID: flast  Email:flast@ncsu.edu  Password: Password  Repeat Password: Password  *Check results*  Click **Add Student**  *Check results*  Click **OK**  Close GUI | Student directory displays:   * Demetrius, Austin, daustin * Lane, Berg, lberg * Raymond, Brennan, rbrennan * Emerald, Frost, efrost * Shannon, Hansen, shansen * Althea, Hicks, ahicks * Zahir, King, zking * First, Last, flast * Dylan, Nolan, dnolan * Cassandra, Schwartz. Cschwartz * Griffith, Stone, gstone   A pop-up dialog stating “Student already in system.” is displayed. | Student directory displays:   * Demetrius, Austin, daustin * Lane, Berg, lberg * Raymond, Brennan, rbrennan * Emerald, Frost, efrost * Shannon, Hansen, shansen * Althea, Hicks, ahicks * Zahir, King, zking * First, Last, flast * Dylan, Nolan, dnolan * Cassandra, Schwartz. Cschwartz * Griffith, Stone, gstone   A pop-up dialog stating “Student already in system.” is displayed. |
| Test 7:  Remove | Preconditions: Test 2 and Test 4 have passed  Select the last row of the Student Directory Table(First, Last, flast)  Click Remove Student  Check Results  Click OK  Close GUI | Student directory displays:   * Demetrius, Austin, daustin * Lane, Berg, lberg * Raymond, Brennan, rbrennan * Emerald, Frost, efrost * Shannon, Hansen, shansen * Althea, Hicks, ahicks * Zahir, King, zking * Dylan, Nolan, dnolan * Cassandra, Schwartz. Cschwartz * Griffith, Stone, gstone | Student directory displays:   * Demetrius, Austin, daustin * Lane, Berg, lberg * Raymond, Brennan, rbrennan * Emerald, Frost, efrost * Shannon, Hansen, shansen * Althea, Hicks, ahicks * Zahir, King, zking * Dylan, Nolan, dnolan * Cassandra, Schwartz. Cschwartz * Griffith, Stone, gstone |
| Test 8:  Loading invalid file | Preconditions: None  In the Load Student Directory File Chooser dialog select test-files  Type “notafile” in the filename  Click select  Check results  Click OK | A pop-up dialog box stating “Unable to read file test-file\notafile” is displayed. | A pop-up dialog box stating “Unable to read file test-file\notafile” is displayed. |
| Test 9:  Incorrect repeat password | Preconditions: Test 7 has passed  Put the following details in the Student Information:  First Name: First  Last Name: Last  ID: flast  Email:flast@ncsu.edu  Password: Pasword  Repeat Password: Password123  Max Credits: 15  Click Add Student  Check results  Close GUI | A pop-up dialog box stating “Passwords do not match” is displayed. | A pop-up dialog box stating “Passwords do not match” is displayed. |
| Test 10:  Empty password | Preconditions: Test 7 has passed  Put the following details in the Student Information:  First Name: First  Last Name: Last  ID: flast  Email:flast@ncsu.edu  Password:  Repeat Password: Password123  Max Credits: 15  Click Add Student  Check results  Close GUI | A pop-up dialog box stating “Invalid password” is displayed. | A pop-up dialog box stating “Invalid password” is displayed. |
| Test 11:  Repeat Password is null | Preconditions: Test 7 has passed  Put the following details in the Student Information:  First Name: First  Last Name: Last  ID: flast  Email:flast@ncsu.edu  Password: Pasword  Repeat Password:  Max Credits: 15  Click Add Student  Check results  Close GUI | A pop-up dialog box stating “Invalid password” is displayed. | A pop-up dialog box stating “Invalid password” is displayed. |
| Test 12:  Save Student Directory | Preconditions: Test 4 has 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:  Demetrius,Austin,daustin,Curabitur.egestas.nunc@placeratorcilacus.co.uk,0蒖"鸣u?\_\7X睩逮?9晎-O頕鈇p?,18  Lane,Berg,lberg,sociis@non.org,0蒖"鸣u?\_\7X睩逮?9晎-O頕鈇p?,14  Raymond,Brennan,rbrennan,litora.torquent@pellentesquemassalobortis.ca,0蒖"鸣u?\_\7X睩逮?9晎-O頕鈇p?,12  Emerald,Frost,efrost,adipiscing@acipsumPhasellus.edu,0蒖"鸣u?\_\7X睩逮?9晎-O頕鈇p?,3  Shannon,Hansen,shansen,convallis.est.vitae@arcu.ca,0蒖"鸣u?\_\7X睩逮?9晎-O頕鈇p?,14  Althea,Hicks,ahicks,Phasellus.dapibus@luctusfelis.com,0蒖"鸣u?\_\7X睩逮?9晎-O頕鈇p?,11  Zahir,King,zking,orci.Donec@ametmassaQuisque.com,0蒖"鸣u?\_\7X睩逮?9晎-O頕鈇p?,15  First,Last,flast,flast@ncsu.edu,缦>赳|9櫓O,oa.妶嶽\_&噹N\_9?#?8?"\_,15  Dylan,Nolan,dnolan,placerat.Cras.dictum@dictum.net,0蒖"鸣u?\_\7X睩逮?9晎-O頕鈇p?,5  Cassandra,Schwartz,cschwartz,semper@imperdietornare.co.uk,0蒖"鸣u?\_\7X睩逮?9晎-O頕鈇p?,4  Griffith,Stone,gstone,porta@magnamalesuadavel.net,0蒖"鸣u?\_\7X睩逮?9晎-O頕鈇p?,17 | The contents should are:  Demetrius,Austin,daustin,Curabitur.egestas.nunc@placeratorcilacus.co.uk,0蒖"鸣u?\_\7X睩逮?9晎-O頕鈇p?,18  Lane,Berg,lberg,sociis@non.org,0蒖"鸣u?\_\7X睩逮?9晎-O頕鈇p?,14  Raymond,Brennan,rbrennan,litora.torquent@pellentesquemassalobortis.ca,0蒖"鸣u?\_\7X睩逮?9晎-O頕鈇p?,12  Emerald,Frost,efrost,adipiscing@acipsumPhasellus.edu,0蒖"鸣u?\_\7X睩逮?9晎-O頕鈇p?,3  Shannon,Hansen,shansen,convallis.est.vitae@arcu.ca,0蒖"鸣u?\_\7X睩逮?9晎-O頕鈇p?,14  Althea,Hicks,ahicks,Phasellus.dapibus@luctusfelis.com,0蒖"鸣u?\_\7X睩逮?9晎-O頕鈇p?,11  Zahir,King,zking,orci.Donec@ametmassaQuisque.com,0蒖"鸣u?\_\7X睩逮?9晎-O頕鈇p?,15  First,Last,flast,flast@ncsu.edu,缦>赳|9櫓O,oa.妶嶽\_&噹N\_9?#?8?"\_,15  Dylan,Nolan,dnolan,placerat.Cras.dictum@dictum.net,0蒖"鸣u?\_\7X睩逮?9晎-O頕鈇p?,5  Cassandra,Schwartz,cschwartz,semper@imperdietornare.co.uk,0蒖"鸣u?\_\7X睩逮?9晎-O頕鈇p?,4  Griffith,Stone,gstone,porta@magnamalesuadavel.net,0蒖"鸣u?\_\7X睩逮?9晎-O頕鈇p?,17 |
| Test 13:  New Student Directory | Preconditions: Test 1 has passed  Click **New Student Directory**  *Check results*  Close GUI | Student Directory is empty  Student Information only shows labels | Student Directory is empty  Student Information only shows labels |
| Test 14:  New Student Directory | Preconditions: Test 2 has passed  Click **New Student Directory**  *Check results*  Close GUI | Student Directory is empty  Student Information only shows labels | Student Directory is empty  Student Information only shows labels |
| Test 15:  Add | Preconditions: Test 14 has passed  Put the following details in the Student Information:  First Name: First  Last Name: Last  ID: flast  Email:flast@ncsu.edu  Password: Pasword  Repeat Password: Password  Max Credits: 15  Click Add Student  Check results  Close GUI | Student directory displays:   * First, Last, flast | Student directory displays:   * First, Last, flast |