# Lab 02: Black Box Test Plan

## Test Overview

Tests StudentDirectory implementation in PackScheduler

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| Test 1  TestOpenStudentDirectoryPane  Author: Mitthu Tiwari | Preconditions: None  Run GUI | -New Student Directory, Load Student Directory, and Save Student Directory buttons are displayed horizontally on top  -Student Directory and Student Information sections are empty  -Add Student and Remove Student buttons are displayed under Student Controls label | -New Student Directory, Load Student Directory, and Save Student Directory buttons are displayed horizontally on top  -Student Directory and Student Information sections are empty  -Add Student and Remove Student buttons are displayed under Student Controls label |
| Test 2  TestLoadStudentDirectoryWithInvalidStudentRecordsFile  Author: Mitthu Tiwari | Preconditions: Test 1 has passed  Click LoadStudentDirectory button  Select invalid\_student\_records.txt from test-files folder  Click Select | Area under Student Directory section is empty | Area under Student Directory section is empty |
| Test 3  TestLoadStudentRecords  Author: Mitthu Tiwari, Manasa Chinta | Preconditions: Test 1 has passed  Click LoadStudentDirectory button  Select student\_records.txt from test-files folder  Click Select | Students are listed in sorted order under Student Directory section with their first names, last names, and student IDs in their respective columns as follows (commas are separating information listed in separate columns):   * 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 | Students are listed in sorted order under Student Directory section with their first names, last names, and student IDs in their respective columns as follows (commas are separating information listed in separate columns):   * 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 4  TestClickRemoveStudentNoStudentSelected  Author: Mitthu Tiwari | Preconditions: Tests 1 and 3 have passed  Click on Remove Student button  Click OK | A message saying “No student selected.” pops up | A message saying “No student selected.” pops up |
| Test 5  TestAddStudent  Author: Mitthu Tiwari, Manasa Chinta | Preconditions: Tests 1 and 3 have passed  Under Student Information section, enter “Steve” in First Name text box, “Rogers” in Last Name text box, “srogers” in ID text box, “srogers@avengers.org” in Email text box, AvengersRtheBest! in Password text box, AvengersRtheBest! in Repeat Password text box, and 18 in Max Credits text box  Click Add Student | The new student is added to the Student Directory section; “Steve” is listed under the First Name column, “Rogers” is listed under the last name column, and “srogers” is listed under the Student ID column.  Steve Rogers is placed between Dylan Nolan and Cassandra Schwartz in the list as follows:   * Demetrius, Austin, daustin * Lane, Berg, lberg * Raymond, Brennan, rbrennan * Emerald, Frost, efrost * Shannon, Hansen, shansen * Althea, Hicks, ahicks * Zahir, King, zking * Dylan, Nolan, dnolan * Steve Rogers, srogers * Cassandra, Schwartz, cschwartz * Griffith, Stone, gstone | The new student is added to the Student Directory section; “Steve” is listed under the First Name column, “Rogers” is listed under the last name column, and “srogers” is listed under the Student ID column.  Steve Rogers is placed between Dylan Nolan and Cassandra Schwartz in the list as follows:   * Demetrius, Austin, daustin * Lane, Berg, lberg * Raymond, Brennan, rbrennan * Emerald, Frost, efrost * Shannon, Hansen, shansen * Althea, Hicks, ahicks * Zahir, King, zking * Dylan, Nolan, dnolan * Steve Rogers, srogers * Cassandra, Schwartz, cschwartz * Griffith, Stone, gstone |
| Test 6  TestRemoveStudentWithStudentSelected  Author: Mitthu Tiwari, Manasa Chinta | Preconditions: Tests 1, 3, and 5 have passed  Select student named “Griffith Stone” with Student ID “gstone” under Student Directory section  Click Remove Student | Students (except for Griffith Stone) are listed under Student Directory section with their first names, last names, and student IDs in their respective columns as follows (commas are separating information listed in separate columns): There are now 10 total students   * Demetrius, Austin, daustin * Lane, Berg, lberg * Raymond, Brennan, rbrennan * Emerald, Frost, efrost * Shannon, Hansen, shansen * Althea, Hicks, ahicks * Zahir, King, zking * Dylan, Nolan, dnolan * Steve Rogers, srogers * Cassandra, Schwartz, cschwartz | Students (except for Griffith Stone) are listed under Student Directory section with their first names, last names, and student IDs in their respective columns as follows (commas are separating information listed in separate columns): There are now 10 total students   * Demetrius, Austin, daustin * Lane, Berg, lberg * Raymond, Brennan, rbrennan * Emerald, Frost, efrost * Shannon, Hansen, shansen * Althea, Hicks, ahicks * Zahir, King, zking * Dylan, Nolan, dnolan * Steve Rogers, srogers * Cassandra, Schwartz, cschwartz |
| Test 7  TestAddStudentWithInvalidEmail  Author: Mitthu Tiwari | Preconditions: Tests 1, 3, 5, and 6 have passed  Under Student Information section, enter “Tony” in First Name text box, “Stark” in Last Name text box, “tstark” in ID text box, “tstark@avengers” in Email text box, I<3Avengers in Password text box, I<3Avengers in Repeat Password text box, and 12 in Max Credits text box  Click Add Student  Click OK | A message saying “Invalid email” pops up  Fields under Student Information section remain filled | A message saying “Invalid email” pops up  Fields under Student Information section remain filled |
| Test 8  TestAddStudentWithInvalidMaxCredits  Author: Mitthu Tiwari | Preconditions: Tests 1, 3, 5, and 6 have passed  Under Student Information section, enter “Carol” in First Name text box, “Danvers” in Last Name text box, “cdanvers” in ID text box, “cdanvers@avengers.org” in Email text box, M@RVELous:) in Password text box, M@RVELous:) in Repeat Password text box, and 25 in Max Credits text box  Click Add Student  Click OK | A message saying “Invalid max credits” pops up  Fields under Student Information section remain filled | A message saying “Invalid max credits” pops up  Fields under Student Information section remain filled |
| Test 9  TestAddStudentWithBlankFirstName  Author: Mitthu Tiwari | Preconditions: Tests 1, 3, 5, and 6 have passed  Under Student Information section, leave First Name text box blank, enter “Last” in Last Name text box, “last” in ID text box, “last@last.com” in Email text box, no1stname in Password text box, no1stname in Repeat Password text box, and 13 in Max Credits text box  Click Add Student  Click OK | A message saying “Invalid first name” pops up  Fields under Student Information section remain filled | A message saying “Invalid first name” pops up  Fields under Student Information section remain filled |
| Test 10  TestAddStudentWithBlankLastName  Author: Mitthu Tiwari | Preconditions: Tests 1, 3, 5, and 6 have passed  Under Student Information section, enter “First” in First Name text box, leave Last Name text box blank, “first” in ID text box, “first@first.com” in Email text box, nolastname? in Password text box, nolastname? in Repeat Password text box, and 14 in Max Credits text box  Click Add Student  Click OK | A message saying “Invalid last name” pops up  Fields under Student Information section remain filled | A message saying “Invalid last name” pops up  Fields under Student Information section remain filled |
| Test 11  TestAddStudentWithBlankID  Author: Mitthu Tiwari | Preconditions: Tests 1, 3, 5, and 6 have passed  Under Student Information section, enter “Bob” in First Name text box, “Cool” in Last Name text box, leave ID text box blank, “cool@supercool.com” in Email text box, pRettyCool in Password text box, pRettyCool in Repeat Password text box, and 15 in Max Credits text box  Click Add Student  Click OK | A message saying “Invalid id” pops up  Fields under Student Information section remain filled | A message saying “Invalid id” pops up  Fields under Student Information section remain filled |
| Test 12  TestAddStudentWithPasswordsNotMatching  Author: Mitthu Tiwari | Preconditions: Tests 1, 3, 5, and 6 have passed  Under Student Information section, enter “Natasha” in First Name text box, “Romanova” in Last Name text box, “nromanova” in ID text box, “nromanova@avengers.org” in Email text box, martialArtsQueeen in Password text box, martialArts in Repeat Password text box, and 16 in Max Credits text box  Click Add Student  Click OK | A message saying “Passwords do not match” pops up  Fields under Student Information section remain filled | A message saying “Passwords do not match” pops up  Fields under Student Information section remain filled |
| Test 13  TestSameFirstNameDifferentLast  Author: Manasa Chinta | Preconditions:Test 1, 3, 5 have passed  Under Student Information section, enter “Steve” in First Name text box, “Rogerz” in Last Name text box, “srogerz” in ID text box, “srogerz@avengers.org” in Email text box, Avengers! in Password text box, Avengers! in Repeat Password text box, and 13 in Max Credits text box  Click Add Student | The new student is added to the Student Directory section; “Steve” is listed under the First Name column, “Rogerz” is listed under the last name column, and “srogerz” is listed under the Student ID column.  Steve Rogerz is placed below “Steve Rogers” in the Student Directory  Updated list appears as follows:   * Demetrius, Austin, daustin * Lane, Berg, lberg * Raymond, Brennan, rbrennan * Emerald, Frost, efrost * Shannon, Hansen, shansen * Althea, Hicks, ahicks * Zahir, King, zking * Dylan, Nolan, dnolan * Steve Rogers, srogers * Steve Rogerz, srogerz * Cassandra, Schwartz, cschwartz | The new student is added to the Student Directory section; “Steve” is listed under the First Name column, “Rogerz” is listed under the last name column, and “srogerz” is listed under the Student ID column.  Steve Rogerz is placed below “Steve Rogers” in the Student Directory  Updated list appears as follows:   * Demetrius, Austin, daustin * Lane, Berg, lberg * Raymond, Brennan, rbrennan * Emerald, Frost, efrost * Shannon, Hansen, shansen * Althea, Hicks, ahicks * Zahir, King, zking * Dylan, Nolan, dnolan * Steve Rogers, srogers * Steve Rogerz, srogerz * Cassandra, Schwartz, cschwartz |
| Test 14:  TestRemoveMultipleStudents  Author: Manasa Chinta | Preconditions: Tests 1 and 3 have passed  Select student named “Raymond Brennan” with Student ID “rbrennan” under Student Directory section  Click Remove Student  Select student named “Althea Hicks” with Student ID “ahicks” under Student Directory section  Click Remove Student  Select student named “Demetrius Austin” with Student ID “daustin” under Student Directory section  Click Remove Student | Students (except for Raymond Brennan, Althea Hicks, and Demetrius Austin) are listed under Student Directory section with their first names, last names, and student IDs in their respective columns as follows (commas are separating information listed in separate columns): There are now 7 total students listed in order:   * Lane, Berg, lberg * Emerald, Frost, efrost * Shannon, Hansen, shansen * Zahir, King, zking * Dylan, Nolan, dnolan * Cassandra, Schwartz, cschwartz * Griffith, Stone, gstone | Students (except for Raymond Brennan, Althea Hicks, and Demetrius Austin) are listed under Student Directory section with their first names, last names, and student IDs in their respective columns as follows (commas are separating information listed in separate columns): There are now 7 total students listed in order:   * Lane, Berg, lberg * Emerald, Frost, efrost * Shannon, Hansen, shansen * Zahir, King, zking * Dylan, Nolan, dnolan * Cassandra, Schwartz, cschwartz * Griffith, Stone, gstone |
| Test 15: SaveStudentDirectory  Author: Mitthu Tiwari | Preconditions: Tests 1, 3, and 14 have passed  Click Save Student Directory button  Save file as black\_box\_student\_records.txt in test-files folder  Click Save  Right click on PackScheduler in Eclipse and click Refresh  Open up black\_box\_student\_records.txt in the editor | Students are listed in the sorted order shown below in the text file with their hashed passwords   * Lane,Berg,lberg,sociis@non.org,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,14 * Emerald,Frost,efrost,adipiscing@acipsumPhasellus.edu,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,3 * Shannon,Hansen,shansen,convallis.est.vitae@arcu.ca,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,14 * Zahir,King,zking,orci.Donec@ametmassaQuisque.com,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,15 * Dylan,Nolan,dnolan,placerat.Cras.dictum@dictum.net,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,5 * Cassandra,Schwartz,cschwartz,semper@imperdietornare.co.uk,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,4 * Griffith,Stone,gstone,porta@magnamalesuadavel.net,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,17 | Students are listed in the sorted order shown below in the text file with their hashed passwords   * Lane,Berg,lberg,sociis@non.org,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,14 * Emerald,Frost,efrost,adipiscing@acipsumPhasellus.edu,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,3 * Shannon,Hansen,shansen,convallis.est.vitae@arcu.ca,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,14 * Zahir,King,zking,orci.Donec@ametmassaQuisque.com,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,15 * Dylan,Nolan,dnolan,placerat.Cras.dictum@dictum.net,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,5 * Cassandra,Schwartz,cschwartz,semper@imperdietornare.co.uk,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,4 * Griffith,Stone,gstone,porta@magnamalesuadavel.net,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,17 |