# Lab 12: Black Box Test Plan

## Test Overview

To run the tests:

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

All tests files should be located in the test-files/ folder.

If you run all tests independently, you can close the GUI between each test. However, the tests are structured so that they may be run in order without shutting down the GUI.

## Test Initialization

Each test should start with the following steps:

1. Log in as a registrar using the id “registrar” and password “Regi5tr@r”
2. Click on Student Directory button
3. Click on Load Student Directory button
4. Load test-files/student\_records.txt. Click Select button.
5. Click Faculty Directory button
6. Click on Load Faculty Directory button
7. Load test-files/faculty\_records\_extended.txt. Click Select button.
8. Click Course Catalog button
9. Click on Load Course Catalog button
10. Load test-files/course\_records.txt. Click Select button.
11. Logout.

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| Test 1  : Cancel Load StudentDirectoryPanel | **Preconditions: None**  Log in as a registrar using the id “registrar” and password “Regi5tr@r”  Click on Student Directory button  Click on Load Student Directory  Click Cancel on the opened File Chooser  *Check results* | No exception should be thrown on the Console output.  The Student Directory should be empty | No exception should be thrown on the Console output.  The Student Directory should be empty |
| Test 2:  Cancel Load FacultyDirectoryPanel | **Preconditions: None**  Log in as a registrar using the id “registrar” and password “Regi5tr@r”  Click on Faculty Directory button  Click on Load Faculty Directory  Click Cancel on the opened File Chooser  *Check results* | No exception should be thrown on the Console output.  The Faculty Directory should be empty | No exception should be thrown on the Console output.  The Faculty Directory should be empty |
| Test 3:  Cancel Load CourseCatalogPanel | **Preconditions: None**  Log in as a registrar using the id “registrar” and password “Regi5tr@r”  Click on Course Catalog button  Click on Load Course Catalog  Click Cancel on the opened File Chooser  *Check results* | No exception should be thrown on the Console output.  The Course Catalog should be empty | No exception should be thrown on the Console output.  The Course Catalog should be empty |
| Test 4: Default Faculty | **Preconditions: Initialization**  Login with the username “awitt” and password “pw”  *Check results*  Select **Logout** | Faculty Schedule is empty, Course Details only shows labels, and Course Roll is empty. | Faculty Schedule is empty, Course Details only shows labels, and Course Roll is empty. |
| Test 5:  Assign Faculty to Courses | **Preconditions: Test Initialization finished**  **Login as registrar**:  Username: registrar  Password: Regi5tr@r  Click Faculty Assignment  Select Instructor **Ashley Witt** in Faculty Directory  Select **CSC 116 001 Intro to Programming - Java**  Click **Assign Faculty to Course**  Select Instructor **Ashley Witt** in Faculty Directory  Select **CSC 216 001 Programming Concepts - Java**  Click **Assign Faculty to Course**  Select **Logout** in the top right of the GUI | In the Faculty Assignment tab,  when selecting **CSC 116 001 Intro to Programming - Java**  **,** within Course Details(at the bottom) there should be an instructor named “awitt”  In the Faculty Assignment tab,  when selecting **CSC 216 001 Programming Concepts - Java** **,** within Course Details(at the bottom) there should be an instructor named “awitt” | In the Faculty Assignment tab,  when selecting **CSC 116 001 Intro to Programming - Java**  **,** within Course Details(at the bottom) there should be an instructor named “awitt”  In the Faculty Assignment tab,  when selecting **CSC 216 001 Programming Concepts - Java** **,** within Course Details(at the bottom) there should be an instructor named “awitt” |
| Test 6:  Add Students to Faculty’s Course | **Preconditions: Test 5 has passed**  **Login as Zahir King**  Username: zking  Password: pw  In Course Catalog, select the 4th row (CSC216, 001, Programming Concepts - Java, TH 1:30PM-2:45PM, 10)  Select **Add Course**  Select **Logout**  Repeat process for these students’ usernames with password “pw”:  - cschwartz  - daustin  - ahicks  - dnolan  In the login screen, **login as Ashley Witt**  Username: awitt  Password: pw  Select the course in the 2nd row (CSC216, 001, Programming Concepts, TH 1:30PM-2:45PM, 10)  *Check results*  Close GUI | Faculty Schedule shows 2 courses:   * CSC116, 001, Intro to Programming - Java, MW 9:10AM-11:00AM, 10 * CSC216, 001, Programming Concepts - Java, TH 1:30PM-2:45PM, 5   Course Details shows:   * Name: CSC216 * Section: 001 * Title: Programming Concepts - Java * Instructor: sesmith5 * Credits: 4 * Meeting: TH 1:30PM-2:45PM * Enrollment Cap: 10 * Open Seats: 5 * Waitlist: 0   Course Roll shows 5 students:   * Zahir, King, zking * Cassandra, Schwartz, cschwartz * Demetrius, Austin, daustin * Althea, Hicks, ahicks * Dylan, Nolan, dnolan | Faculty Schedule shows 2 courses:   * CSC116, 001, Intro to Programming - Java, MW 9:10AM-11:00AM, 10 * CSC216, 001, Programming Concepts - Java, TH 1:30PM-2:45PM, 5   Course Details shows:   * Name: CSC216 * Section: 001 * Title: Programming Concepts - Java * Instructor: sesmith5 * Credits: 4 * Meeting: TH 1:30PM-2:45PM * Enrollment Cap: 10 * Open Seats: 5 * Waitlist: 0   Course Roll shows 5 students:   * Zahir, King, zking * Cassandra, Schwartz, cschwartz * Demetrius, Austin, daustin * Althea, Hicks, ahicks   Dylan, Nolan, dnolan |
| Test 7: Cancel Save Student Directory | **Preconditions: Test 6 has passed**  Login as registrar:  Username: registrar  Password: Regi5tr@r  Select **Student Directory** if not selected already  Select **Save Course Catalog**  Select **Cancel**  *Check results*  Select **Logout** | Student Directory shows 10 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 * Cassandra, Schwartz, cschwartz * Griffith, Stone, gstone | Student Directory shows 10 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 * Cassandra, Schwartz, cschwartz   Griffith, Stone, gstone |
| Test 8:  Cancel Save Faculty Directory | **Preconditions: Test 6 has passed**  Login as registrar:  Username: registrar  Password: Regi5tr@r  Select **Faculty Directory**  Select **Save Faculty Directory**  Select **Cancel**  *Check results*  Select **Logout** | Faculty Directory shows 8 faculty:   * Ashley, Witt, awitt * Fiona, Meadows, fmeadow * Brent, Brewer, bbrewer * Halla, Aguirre, haguirr * Kevyn, Patel, kpatel * Elton, Briggs, ebriggs * Norman, Brady, nbrady * Lacey, Walls, lwalls | Faculty Directory shows 8 faculty:   * Ashley, Witt, awitt * Fiona, Meadows, fmeadow * Brent, Brewer, bbrewer * Halla, Aguirre, haguirr * Kevyn, Patel, kpatel * Elton, Briggs, ebriggs * Norman, Brady, nbrady   Lacey, Walls, lwalls |
| Test 9:  Cancel Save Course Catalog | **Preconditions: Test 6 has passed**  Login as registrar:  Username: registrar  Password: Regi5tr@r  Select **Course Catalog**  Select **Save Course Catalog**  Select **Cancel**  *Check results*  Select **Logout** | Course Catalog shows 8 courses:   * CSC116, 001, Intro to Programming - Java, MW 9:10AM-11:00AM, 10 * CSC116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM, 10 * CSC116, 003, Intro to Programming - Java, TH 11:20AM-1:10PM, 10 * CSC216, 001, Programming Concepts - Java, TH 1:30PM-2:45PM, 10 * CSC216, 002, Programming Concepts - Java, MW 1:30PM-2:45PM, 10 * CSC216, 601, Programming Concepts - Java, Arranged, 10 * CSC226, 001, Discrete Mathmatics for Computer Scientists, MWF 9:35AM-10:25AM, 10 * CSC230, 001, C and Software Tools, MW 11:45AM-1:00PM, 10 | Course Catalog shows 8 courses:   * CSC116, 001, Intro to Programming - Java, MW 9:10AM-11:00AM, 10 * CSC116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM, 10 * CSC116, 003, Intro to Programming - Java, TH 11:20AM-1:10PM, 10 * CSC216, 001, Programming Concepts - Java, TH 1:30PM-2:45PM, 10 * CSC216, 002, Programming Concepts - Java, MW 1:30PM-2:45PM, 10 * CSC216, 601, Programming Concepts - Java, Arranged, 10 * CSC226, 001, Discrete Mathmatics for Computer Scientists, MWF 9:35AM-10:25AM, 10   CSC230, 001, C and Software Tools, MW 11:45AM-1:00PM, 10 |