# 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** |
| T1  Test Faculty with Course with no students enrolled  Brian Wu | Log in as a registrar using the id “registrar” and password “Regi5tr@r”  Assign Faculty Member awitt with course “CSC 230 section 001 C and Software Tools”  Log out  Log in as Ashely Witt using the id “awitt” and password “pw”  Check results | The schedule shows the  name as “CSC230”, section as “001”, title as “C and Software Tools”, meeting days string as “MW 11:45AM – 1:00PM”, and the number of open seats as “10”.  The course details show the course name as “CSC230”, section as “001”, title as “C and Software Tools”, instructor as “awitt”, credits as “3”, meeting days string as “MW 11:45AM – 1:00PM”, enrollment capacity as “10”, number of open seats as “10”, and number of students on the waitlist as “0”.  The course roll should be empty because no students have registered for the class |  |
| T2  Test Faculty without Course  Brian Wu | Without assigning any courses,  Log in as Fiona Meadows using the id “fmeadow” and password “pw”  Check results | The schedule is empty.  The course details are empty.  The course roll is empty. |  |
| T3  Test Faculty with course with students enrolled  Brian Wu | Log in as a registrar using the id “registrar” and password “Regi5tr@r”  Assign Faculty Member awitt with course “CSC 230 section 001 C and Software Tools”  Log out  Log in as Demetrius Austin using the id “daustin” and password “pw”  Select “CSC 230 section 001 C and Software Tools”  and click add course.  Log out  Log in as Lane Berg using the id “lberg” and password “pw”  Select “CSC 230 section 001 C and Software Tools”  and click add course.  Log out  Log in as Raymond Brennan using the id “rbrennan” and password “pw”  Select “CSC 230 section 001 C and Software Tools”  and click add course.  Log out  Log in as Ashely Witt using the id “awitt” and password “pw”  Check results | The schedule shows the  name as “CSC230”, section as “001”, title as “C and Software Tools”, meeting days string as “MW 11:45AM – 1:00PM”, and the number of open seats as “7”.  The course details show the course name as “CSC230”, section as “001”, title as “C and Software Tools”, instructor as “awitt”, credits as “3”, meeting days string as “MW 11:45AM – 1:00PM”, enrollment capacity as “10”, number of open seats as “7”, and number of students on the waitlist as “0”.  The course roll should have three students.  Demetrius Austin daustin  Lane Berg lberg  Raymond Brennan rbrennan |  |
| T4  Cancel Loading Student Directory  Benjamin Gale | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in  Click: **Load Student Directory**  Click: **Cancel**  Check results | The window is closed and an exception is NOT thrown in the console. |  |
| T5  Cancel Saving Student Directory  Benjamin Gale | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in  Click: **Save Student Directory**  Click: **Cancel**  Check results | The window is closed and an exception is NOT thrown in the console. |  |
| T6  Cancel Loading Faculty Directory  Benjamin Gale | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in  Click: **Load Faculty Directory**  Click: **Cancel**  Check results | The window is closed and an exception is NOT thrown in the console. |  |
| T7  Cancel Saving Faculty Directory  Benjamin Gale | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in  Click: **Save Faculty Directory**  Click: **Cancel**  Check results | The window is closed and an exception is NOT thrown in the console. |  |
| T8  Cancel Loading Course Catalog  BenjaminGale | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in  Click: **Load Course Catalog**  Click: **Cancel**  Check results | The window is closed and an exception is NOT thrown in the console. |  |
| T9  Cancel Saving Course Catalog  Benjamin Gale | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in  Click: **Save Course Catalog**  Click: **Cancel**  Check results | The window is closed and an exception is NOT thrown in the console. |  |
| T10  Export empty student schedule  Benjamin Gale | Preconditions: PackSchedulerGUI has loaded  User ID: **daustin**  Password: **pw**  Click: **Export**  Check results | A pop up displays the message “The file cannot be saved” |  |
| T11  Export student schedule with Arranged course  Benjamin Gale | Preconditions: PackSchedulerGUI has loaded  User ID: **daustin**  Password: **pw**  Select Course CSC216 601 Programming Concepts – Java Arranged  Click: **Add Course**  Click: **Export**  Select **test-files** directory and name the file **sched\_export\_test.txt**. | Contents should be:  CSC216,601,Programming Concepts – Java Arranged,4,jep,A |  |
| T12  Export student schedule with multiple courses  Benjamin Gale | Preconditions: PackSchedulerGUI has loaded  User ID: **daustin**  Password: **pw**  Select Course CSC116 001 Intro to Programming  Click: **Add Course**  Click: **Export**  Select **test-files** directory and name the file  **sched\_export\_test.txt**. | Contents should be:  CSC216,601,Programming Concepts – Java Arranged,4,jep,A  CSC116,001,Intro to Programming,3, jdyoung2,MW,0910,1100 |  |