

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.

Test ID	Description	Expected Results	Actual Results
Test 1: testEmptyFacultySchedule	<p>Preconditions: Complete Test Initialization 1-10</p> <p>Log in as faculty using the id "awitt" and the password "pw"</p> <p><i>Check Results</i></p>	The Faculty Schedule, Course Details, and Course Roll are displayed but are empty	The Faculty Schedule, Course Details, and Course Roll are displayed but are empty
Test 2: testAddFacultyToCourse	<p>Preconditions: Test 1 passes</p> <p>Log out if you're still logged in</p> <p>Log in as a registrar using the id "registrar" and password "Regi5tr@"</p> <p>Click on "Faculty Assignment" button</p> <p>Click on CSC216 Section 001 and Sarah Heckman</p> <p>Click on 'Remove Faculty From Course'</p> <p><i>Check Results</i></p> <p>Click on CSC216 Section 001 and Faculty Ashely Witt</p> <p>Click on "Assign Faculty to Course" button</p> <p><i>Check Results</i></p> <p>Click "Logout" button</p> <p>Log in as faculty using the id "awitt" and password "pw"</p> <p><i>Check results</i></p> <p>Select 'CSC 216 - 001' from the Faculty Schedule</p> <p><i>Check results</i></p>	<p>Sarah Heckman is removed as the instructor for CSC 216 - 001 (the instructor field is left blank)</p> <p>Ashley Witt is added as the instructor for CSC216 - 001</p> <p>Under "Faculty Schedule" there is one course, CSC216 - 001 with 10 open seats. The Course Details is empty. The Course Roll is empty.</p> <p>The 'Course Details' section is now updated with the details of CSC216 - 001 (enrollment cap of 10 and 0 on the waitlist).</p>	<p>Sarah Heckman is removed as the instructor for CSC 216 - 001 (the instructor field is left blank)</p> <p>Ashley Witt is added as the instructor for CSC216 - 001</p> <p>Under "Faculty Schedule" there is one course, CSC216 - 001 with 10 open seats. The Course Details is empty. The Course Roll is empty.</p> <p>The 'Course Details' section is now updated with the details of CSC216 - 001 (enrollment cap of 10 and 0 on the waitlist).</p>

Test 3: testAddStudentToCourseRoll	<p>Preconditions: Test 2 passes</p> <p>Log out if you're still logged in Log in as a student using the id "zking" and the password "pw".</p> <p>Click on 'CSC 216 Section 001' in the Course Catalog Click on 'Add Course'</p> <p><i>Check results</i></p> <p>Logout.</p> <p>Log in as faculty using the id "awitt" and password "pw" Select 'CSC 216 - 001' from the Faculty Schedule</p> <p><i>Check results</i></p>	<p>CSC 216 - 001 is added to the student's schedule.</p> <p>The course details for CSC 216 - 001 is updated:</p> <ul style="list-style-type: none"> • Open Seats: 9 <p>Also, the Student, Zahir King, is added to the Course Roll.</p>	<p>CSC 216 - 001 is added to the student's schedule.</p> <p>The course details for CSC 216 - 001 is updated:</p> <ul style="list-style-type: none"> • Open Seats: 9 <p>Also, the Student, Zahir King, is added to the Course Roll.</p>
Test 4: testCancelSaveStudentDirectoryPanel	<p>Preconditions: PackSchedulerGUI is launched</p> <p>Log in with id "registrar" and password "Regi5tr@r"</p> <p>Click on "Student Directory"</p> <p>Click on "Save Student Directory"</p> <p>Select "Cancel"</p> <p><i>Check results</i></p>	<p>User is brought back to Student Directory menu with no changes</p> <p>There is no error printed to the console on Eclipse</p>	<p>User is brought back to Student Directory menu with no changes</p> <p>There is no error printed to the console on Eclipse</p>
Test 5: testCancelLoadStudentDirectoryPanel	<p>Preconditions: PackSchedulerGUI is launched</p> <p>Log in with id "registrar" and password "Regi5tr@r"</p>	<p>User is brought back to Student Directory menu with no changes</p>	<p>User is brought back to Student Directory menu with no changes</p>

ctoryPanel	Click on "Student Directory" Click on "Load Student Directory" Select "Cancel" <i>Check results</i>	There is no error printed to the console on Eclipse	There is no error printed to the console on Eclipse
Test 6: testCancelSaveFacultyDirectoryPanel	Preconditions: PackSchedulerGUI is launched Log in with id "registrar" and password "Regi5tr@r" Click on "Faculty Directory" Click on "Save Faculty Directory" Select "Cancel" <i>Check results</i>	User is brought back to Faculty Directory menu with no changes There is no error printed to the console on Eclipse	User is brought back to Faculty Directory menu with no changes There is no error printed to the console on Eclipse
Test 7: testCancelLoadFacultyDirectoryPanel	Preconditions: PackSchedulerGUI is launched Log in with id "registrar" and password "Regi5tr@r" Click on "Faculty Directory" Click on "Load Faculty Directory" Select "Cancel" <i>Check results</i>	User is brought back to Faculty Directory menu with no changes There is no error printed to the console on Eclipse	User is brought back to Faculty Directory menu with no changes There is no error printed to the console on Eclipse
Test 8:	Preconditions: PackSchedulerGUI is launched	User is brought back to	User is brought back to

testCancelSaveCourseCatalogPanel	<p>Log in with id “registrar” and password “Regi5tr@r”</p> <p>Click on “Course Catalog”</p> <p>Click on “Save Course Catalog”</p> <p>Select “Cancel”</p> <p><i>Check results</i></p>	<p>Course Catalog menu with no changes</p> <p>There is no error printed to the console on Eclipse</p>	<p>Course Catalog menu with no changes</p> <p>There is no error printed to the console on Eclipse</p>
Test 9: testCancelLoadCourseCatalogPanel	<p>Preconditions: PackSchedulerGUI is launched</p> <p>Log in with id “registrar” and password “Regi5tr@r”</p> <p>Click on “Course Catalog”</p> <p>Click on “Load Course Catalog”</p> <p>Select “Cancel”</p> <p><i>Check results</i></p>	<p>User is brought back to Course Catalog menu with no changes</p> <p>There is no error printed to the console on Eclipse</p>	<p>User is brought back to Course Catalog menu with no changes</p> <p>There is no error printed to the console on Eclipse</p>
Test 10: testDisplayFinalSchedule	<p>Preconditions: Complete Test initialization 1-10</p> <p>In the “Faculty Assignment” menu: Assign “Ashley Witt” to CSC116 (003) Assign “Fiona Meadows” to CSC216 (601) Assign “Brent Brewer” to CSC226 (001)</p> <p>Click “Logout”</p> <p>Login as “zking” with password “pw”</p>	<p>A table shows the student’s schedule with the following contents:</p> <p>- CSC116, 003, Intro to Programming - Java, awitt, 3, TH 11:20AM - 1:10PM -CSC216, 601, Programming Concepts - Java, fmeadow, 4, Arranged</p>	

	<p>Under "Course Catalog": Add Course CSC116 (001) Add Course CSC216(601) Add Course CSC226(001)</p> <p>Click "Display Final Schedule"</p> <p><i>Check Results</i></p>	<p>-CSC226, Discrete Mathematics for Computer Scientists, bbrewer, 3, MWF 9:35AM - 11:25AM</p>	
Test 11: testExportFinalSchedule	<p>Preconditions: Test 10 passes</p> <p>Click on "Export Schedule"</p> <p>Click on "test-files" folder</p> <p>Enter "!!" and click "Save"</p> <p><i>Check Results</i></p> <p>Enter "final_schedule.txt" and click "Save"</p> <p><i>Check Results</i></p>	<p>A pop-up message saying "The file cannot be saved." is displayed. User clicks "OK" and is brought back to file saving menu</p> <p>Student is brought back to final schedule display and there are no changes to the display</p>	
Test12: testCheckExportedFile	<p>Preconditions: Test 11 passes</p> <p>Open the "final_schedule.txt" file saved in the "test=files" folder</p> <p><i>Check Results</i></p>	<p>The schedule is displayed as a comma separated list:</p> <p>(' ' denotes a new line) -Course: CSC116,003, Intro to Programming - Java,3,awitt,TH,1120,1310 -Course: CSC216,601,Programming Concepts - Java,4,fmeadow,A</p>	

		-CSC226,001,Discrete Mathematics for Computer Scientists,3,bbrewer,MWF, 935,1125	
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