# Guided Project 1: Black Box Test Plan

There are 13 system-level black box tests. All tests are worth 3 points for a total of 39 points. For each test, 2 points are for passing the test and 1 point is for reporting the actual results of running the test on YOUR program - even if the test if failing! You earn the last point (to get to 40) for submitting your black box test plan in the appropriate format.

To run the tests:

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

The FileChooser for the course catalog 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 2-13 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 File | Preconditions: None   1. Run WolfSchedulerGUI. 2. In the **Load Course Catalog** FileChooser dialog select: test-files/invalid\_course\_records.txt 3. Click **Select** 4. *Check results* 5. Close GUI | WolfSchdulerGUI loads  Course Catalog is empty  My Schedule is empty  Course Details only shows labels | WolfSchdulerGUI loads  Course Catalog is empty  My Schedule is empty  Course Details only shows labels |
| Test 2: Valid File | Preconditions: None   1. Run WolfSchedulerGUI. 2. In the **Load Course Catalog** FileChooser dialog select: test-files/course\_records.txt 3. Click **Select** 4. *Check results* 5. Close GUI | WolfSchdulerGUI loads  Course Catalog contains 8 classes   * CSC116, 001, Intro to Programming - Java * CSC116, 002, Intro to Programming - Java * CSC116, 003, Intro to Programming - Java * CSC216, 001, Programming Concepts - Java * CSC216, 002, Programming Concepts - Java * CSC216, 601, Programming Concepts - Java * CSC226, 001, Discrete Mathematics for Computer Scientists * CSC230, 001, C and Software Tools   My Schedule is empty  Course Details only shows labels | WolfSchdulerGUI loads  Course Catalog contains 8 classes   * CSC116, 001, Intro to Programming - Java * CSC116, 002, Intro to Programming - Java * CSC116, 003, Intro to Programming - Java * CSC216, 001, Programming Concepts - Java * CSC216, 002, Programming Concepts - Java * CSC216, 601, Programming Concepts - Java * CSC226, 001, Discrete Mathematics for Computer Scientists * CSC230, 001, C and Software Tools   My Schedule is empty  Course Details only shows labels |
| Test 3: Add - No Sel. | Preconditions: Test 2 has passed   1. Make sure that no row in the Course Catalog table is selected (if there is a row selected, restart the GUI) 2. Click **Add Course** 3. *Check results* 4. Click **OK** 5. Close GUI | A pop-up dialog stating “No course selected in the catalog.” is displayed. | A pop-up dialog stating “No course selected in the catalog.” is displayed. |
| Test 4: Add | Preconditions: Test 2 has passed   1. Select the 4th row of the Course Catalog table (CSC216, 001, Programming Concepts - Java) 2. *Check results* 3. Click **Add Course** 4. *Check results* 5. Close GUI | Course Details are displayed   * Name: CSC216 * Section: 001 * Title: Programming Concepts - Java * Instructor: sesmith5 * Credits: 4 * Meeting: TH 1:30PM-2:45PM   Course CSC216, 001, Programming Concepts - Java is listed in the My Schedule table | Course Details are displayed   * Name: CSC216 * Section: 001 * Title: Programming Concepts - Java * Instructor: sesmith5 * Credits: 4 * Meeting: TH 1:30PM-2:45PM   Course CSC216, 001, Programming Concepts - Java is listed in the My Schedule table |
| Test 5: Remove - No Sel. | Preconditions: Test 2 and Test 4 have passed   1. Make sure that no row in the My Schedule table is selected (if there is a row selected, restart the test) 2. Click **Remove Course** 3. *Check results* 4. Click **OK** 5. Close GUI | A pop-up dialog stating “No item selected in the schedule.” is displayed. | A pop-up dialog stating “No item selected in the schedule.” is displayed. |
| Test 6: Add Same Course | Preconditions: Test 2 and Test 4 have passed   1. Select the 5th row of the Course Catalog table (CSC216, 002, Programming Concepts - Java) 2. *Check results* 3. Click **Add Course** 4. *Check results* 5. Click **OK** 6. Close GUI | Course Details are displayed   * Name: CSC216 * Section: 002 * Title: Programming Concepts - Java * Instructor: jtking * Credits: 4 * Meeting: MW 1:30PM-2:45PM   A pop-up dialog stating “You are already enrolled in CSC216” is displayed. | Course Details are displayed   * Name: CSC216 * Section: 002 * Title: Programming Concepts - Java * Instructor: jtking * Credits: 4 * Meeting: MW 1:30PM-2:45PM   A pop-up dialog stating “You are already enrolled in CSC216” is displayed. |
| Test 7: Reset | Preconditions: Test 2 and Test 4 have passed   1. Click **Reset Schedule** 2. *Check results* 3. Close GUI | My Schedule table is empty | My Schedule table is empty |
| Test 8: Add Several | Preconditions: Test 2 has passed   1. Select the 6th row of the Course Catalog table (CSC216, 601, Programming Concepts - Java) 2. Click **Add Course** 3. Select the 2nd row of the Course Catalog table (CSC116, 002, Intro to Programming - Java) 4. Click **Add Course** 5. Select the 8th row of the Course Catalog table (CSC230, 001, C and Software Tools) 6. Click **Add Course** 7. Select the 7th row of the Course Catalog table (CSC226, 001, Discrete Mathematics for Computer Scientists) 8. Click **Add Course** 9. *Check results* 10. Close GUI | My Schedule displays:   * CSC216, 601, Programming Concepts - Java * CSC116, 002, Intro to Programming - Java * CSC230, 001, C and Software Tools * CSC226, 001, Discrete Mathematics for Computer Scientists | My Schedule displays:   * CSC216, 601, Programming Concepts - Java * CSC116, 002, Intro to Programming - Java * CSC230, 001, C and Software Tools   CSC226, 001, Discrete Mathematics for Computer Scientists |
| Test 9: Remove | Preconditions: Test 2 and Test 8 have passed   1. Select the 2nd row of the My Schedule table (CSC116, 002, Intro to Programming - Java) 2. Click **Remove Course** 3. *Check results* 4. Close GUI | My Schedule displays:   * CSC216, 601, Programming Concepts - Java * CSC230, 001, C and Software Tools * CSC226, 001, Discrete Mathematics for Computer Scientists | My Schedule displays:   * CSC216, 601, Programming Concepts - Java * CSC230, 001, C and Software Tools   CSC226, 001, Discrete Mathematics for Computer Scientists |
| Test 10: Set Title | Preconditions: Test 1 or Test 2 have passed   1. Enter “My Super Awesome Schedule” into the Schedule Title text field 2. Click **Set Title** 3. *Check results* 4. Close GUI | The label on the third section of the GUI now contains the text “My Super Awesome Schedule” instead of “My Schedule” | The label on the third section of the GUI now contains the text “My Super Awesome Schedule” instead of “My Schedule” |
| Test 11: Finalize | Preconditions: Test 2 and Tests 8-10 have passed   1. Click **Display Final Schedule** 2. *Check results* 3. Close GUI | Schedule Title: “My Super Awesome Schedule”  Schedule Table   * CSC216, 601, Programming Concepts - Java, 4, jep, Arranged * CSC230, 001, C and Software Tools, 3, dbsturgi, MW 11:45AM-1:00PM * CSC226, 001, Discrete Mathematics for Computer Scientists, 3, tmbarnes, MWF 9:35AM-10:25AM | Schedule Title: “My Super Awesome Schedule”  Schedule Table   * CSC216, 601, Programming Concepts - Java, 4, jep, Arranged * CSC230, 001, C and Software Tools, 3, dbsturgi, MW 11:45AM-1:00PM * CSC226, 001, Discrete Mathematics for Computer Scientists, 3, tmbarnes, MWF 9:35AM-10:25AM |
| Test 12: Export | Preconditions: Test 2 and Tests 8-11 have passed   1. Click **Export Schedule** 2. Select test-files folder. Enter the filename actual\_schedule.txt 3. Click **Save** (it’s ok to overwrite old results) 4. *Check results* 5. Close GUI | In Eclipse, right click on the WolfScheduler project and select **Refresh.**  Open the test-files folder and open actual\_schedule.txt in the editor.  The contents should be:  CSC216,Programming Concepts - Java,601,4,jep,A  CSC230,C and Software Tools,001,3,dbsturgi,MW,1145,1300  CSC226,Discrete Mathematics for Computer Scientists,001,3,tmbarnes,MWF,935,1025 | In Eclipse, right click on the WolfScheduler project and select **Refresh.**  Open the test-files folder and open actual\_schedule.txt in the editor.  The contents should be:  CSC216,Programming Concepts - Java,601,4,jep,A  CSC230,C and Software Tools,001,3,dbsturgi,MW,1145,1300  CSC226,Discrete Mathematics for Computer Scientists,001,3,tmbarnes,MWF,935,1025 |
| Test 13: Revise | Preconditions: Test 2 and Tests 8-11 have passed   1. Click **Revise Schedule** 2. *Check Results* 3. Close GUI | The Scheduler view is shown with   * 8 courses listed in the catalog * My Super Awesome Schedule as the schedule title * 3 courses in my schedule (CSC216-601, CSC230-001, CSC226-001) | The Scheduler view is shown with   * 8 courses listed in the catalog * My Super Awesome Schedule as the schedule title * 3 courses in my schedule (CSC216-601, CSC230-001, CSC226-001) |