# Guided Project 1: System Test Plan

There are 13 system 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 system 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 and the contents of the files used in testing are below:

*invalid\_course\_records.txt*

001,Software Development Fundamentals,001,3,sesmith5,MW,1330,1445

CSC216,Software Development Fundamentals,001,3,sesmith5,MW,1330,1445

CSC a216,Software Development Fundamentals,001,3,sesmith5,MW,1330,1445

CSCSC 16,Software Development Fundamentals,001,3,sesmith5,MW,1330,1445

16,Software Development Fundamentals,001,3,sesmith5,MW,1330,1445

CSC 16,Software Development Fundamentals,001,3,sesmith5,MW,1330,1445

CSC 2167,Software Development Fundamentals,001,3,sesmith5,MW,1330,1445

CSC 216,001,3,sesmith5,MW,1330,1445

CSC 216,Software Development Fundamentals,3,sesmith5,MW,1330,1445

CSC 216,Software Development Fundamentals,abc,3,sesmith5,MW,1330,1445

CSC 216,Software Development Fundamentals,001,sesmith5,MW,1330,1445

CSC 216,Software Development Fundamentals,001,0,sesmith5,MW,1330,1445

CSC 216,Software Development Fundamentals,001,6,sesmith5,MW,1330,1445

CSC 216,Software Development Fundamentals,001,3,MW,1330,1445

CSC 216,Software Development Fundamentals,001,3,sesmith5,1330,1445

CSC 216,Software Development Fundamentals,001,3,sesmith5,MW,1445

CSC 216,Software Development Fundamentals,01,3,sesmith5,MW,1330,1445

CSC 216,Software Development Fundamentals,001,3,,MW,1330,1445

CSC 216,Software Development Fundamentals,001,3,sesmith5,MWA,1330,1445

CSC 216,Software Development Fundamentals,001,3,sesmith5,A,1330,1445

CSC 216,Software Development Fundamentals,001,3,sesmith5,MW,267,1445

CSC 216,Software Development Fundamentals,001,3,sesmith5,MW,1445,1330

CSC 216,Software Development Fundamentals,001,3,sesmith5,,1330,1445

CSC 216,Software Development Fundamentals,001,3,sesmith5,MTWHT,1330,1445

*course\_records.txt*

CSC 116,Intro to Programming - Java,001,3,jdyoung2,MW,0910,1100

CSC 116,Intro to Programming - Java,002,3,spbalik,MW,1120,1310

CSC 116,Intro to Programming - Java,003,3,tbdimitr,TH,1120,1310

CSC 116,Intro to Programming - Java,002,3,jtking,TH,0910,1100

CSC 216,Software Development Fundamentals,001,3,sesmith5,TH,1330,1445

CSC 216,Software Development Fundamentals,002,3,ixdoming,MW,1330,1445

CSC 216,Software Development Fundamentals,601,3,jctetter,A

CSC 217,Software Development Fundamentals Lab,202,1,sesmith5,M,1040,1230

CSC 217,Software Development Fundamentals Lab,211,1,sesmith5,T,830,1020

CSC 217,Software Development Fundamentals Lab,223,1,sesmith5,W,1500,1650

CSC 217,Software Development Fundamentals Lab,601,1,sesmith5,A

CSC 226,Discrete Mathematics for Computer Scientists,001,3,tmbarnes,MWF,935,1025

CSC 230,C and Software Tools,001,3,dbsturgi,MW,1145,1300

CSC 316,Data Structures and Algorithms,001,3,jtking,MW,830,945

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 | **The WolfSchedulerGUI loaded up, course catalog is empty, my schedule is also empty, and the course details only show labels. The GUI looks smooth as well.** |
| 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 13 classes   * CSC 116, 001, Intro to Programming - Java * CSC 116, 002, Intro to Programming - Java * CSC 116, 003, Intro to Programming - Java * CSC 216, 001, Software Development Fundamentals * CSC 216, 002, Software Development Fundamentals * CSC 216, 601, Software Development Fundamentals * CSC 217, 202, Software Development Fundamentals Lab * CSC 217, 211, Software Development Fundamentals Lab * CSC 217, 223, Software Development Fundamentals Lab * CSC 217, 601, Software Development Fundamentals Lab * CSC 226, 001, Discrete Mathematics for Computer Scientists * CSC 230, 001, C and Software Tools * CSC 316, 001, Data Structures and Algorithms   My Schedule is empty  Course Details only shows labels | **All 13 classes are in the course catalog, my schedule is empty, and course details only show labels. All buttons are available to be used as well as the formatting looks nice.** |
| 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 text message box pops up after clicking the “Add Course” button. It states, “No course selected in the catalog.” All the other features are still the same.** |
| Test 4: Add | Preconditions: Test 2 has passed   1. Select the 4th row of the Course Catalog table (CSC 216, 001, Software Development Fundamentals) 2. *Check results* 3. Click **Add Course** 4. *Check results* 5. Close GUI | Course Details are displayed   * Name: CSC 216 * Section: 001 * Title: Software Development Fundamentals * Instructor: sesmith5 * Credits: 3 * Meeting: TH 1:30PM-2:45PM   Course CSC 216, 001, Software Development Fundamentals is listed in the My Schedule table | **After selecting the Course 216 001 Software Development Fundamentals and clicking the Add Course button, under My Schedule it lists the name which is CSC 216, the section which 001, and the Title which is Software Development Fundamentals. It also lists below the Course Details with the name, section, title, instructor, credits, and meeting time. Instructor is sesmith5, credits are 3, and meeting is TH 1:30PM-2:45PM** |
| 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. | **After clicking remove course, a message box pops up stating “No item selected in the schedule.”** |
| Test 6: Add Same Course | Preconditions: Test 2 and Test 4 have passed   1. Select the 5th row of the Course Catalog table (CSC 216, 002, Software Development Fundamentals) 2. *Check results* 3. Click **Add Course** 4. *Check results* 5. Click **OK** 6. Close GUI | Course Details are displayed   * Name: CSC 216 * Section: 002 * Title: Software Development Fundamentals * Instructor: ixdoming * Credits: 3 * Meeting: MW 1:30PM-2:45PM   A pop-up dialog stating “You are already enrolled in CSC216” is displayed. | **The course details for CSC 216 section 002 are displayed at the bottom, but when you click the Add Course button, a message box pops up stating “You are already enrolled in CSC216”.** |
| 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 | **After clicking reset schedule, the My schedule section/table is empty and has no courses.** |
| Test 8: Add Several | Preconditions: Test 2 has passed   1. Select the 6th row of the Course Catalog table (CSC 216, 601, Software Development Fundamentals) 2. Click **Add Course** 3. Select the 10th row of the CourseCatalog table (CSC 217, 601, Software Development Fundamental Lab) 4. Click **Add Course** 5. Select the 2nd row of the Course Catalog table (CSC 116, 002, Intro to Programming - Java) 6. Click **Add Course** 7. Select the 12th row of the Course Catalog table (CSC 230, 001, C and Software Tools) 8. Click **Add Course** 9. Select the 11th row of the Course Catalog table (CSC 226, 001, Discrete Mathematics for Computer Scientists) 10. Click **Add Course** 11. *Check results* 12. Close GUI | My Schedule displays:   * CSC 216, 601, Software Development Fundamentals * CSC 217, 601, Software Development Fundamentals Lab * CSC 116, 002, Intro to Programming - Java * CSC 230, 001, C and Software Tools * CSC 226, 001, Discrete Mathematics for Computer Scientists | **After adding all 5 courses, my schedule shows all 5 with the correct name, section, and title. In course details at the bottom, it displays the details of CSC 226 as that was the last course selected and the last course added to the schedule.** |
| Test 9: Remove | Preconditions: Test 2 and Test 8 have passed   1. Select the 3rd row of the My Schedule table (CSC 116, 002, Intro to Programming - Java) 2. Click **Remove Course** 3. *Check results* 4. Close GUI | My Schedule displays:   * CSC 216, 601, Software Development Fundamentals * CSC 217, 601, Software Development Fundamentals Lab * CSC 230, 001, C and Software Tools * CSC 226, 001, Discrete Mathematics for Computer Scientists | **After selecting the CSC 116 002 course and clicking the remove course button, it was successfully removed. My schedule now displays, CSC 216, CSC 217, CSC 230, and CSC 226. Also, course details still displays the information of CSC 226.** |
| 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” | **After clicking the set title button, the My Schedule table has changed to My Super Awesome Schedule, above all the classes inside the schedule. This is the new title for the 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   * CSC 216, 601, Software Development Fundamentals, 3, jctetter, Arranged * CSC 217, 601, Software Development Fundamentals Lab, 1, sesmith5, Arranged * CSC 230, 001, C and Software Tools, 3, dbsturgi, MW 11:45AM-1:00PM * CSC 226, 001, Discrete Mathematics for Computer Scientists, 3, tmbarnes, MWF 9:35AM-10:25AM | **After clicking Display Final Schedule, it changed the entire GUI. It brought us to a new look where we have 2 buttons, revise schedule and export schedule. It has the title of My Super Awesome Schedule, and all the correct name, section, title, credits, instructor, and meeting time for each course. The 4 courses are CSC 216, CSC 217, CSC 230, and CSC 226. Sections are 601, 601, 001, 001. Titles are SW Development Fundamentals, SW Development Fundamentals Lab, C and Software Tools, Discrete Mathematics for Computer Scientists. Credits are 3, 1, 3, 3. Instructors are jctetter, sesmith5, dbsturgi, tmbarnes. Meeting times are Arranged, Arranged, MW 11:45AM-1:00PM, 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:  CSC 216,Software Development Fundamentals,601,3,jctetter,A  CSC 217,Software Development Fundamentals Lab,601,1,sesmith5,A  CSC 230,C and Software Tools,001,3,dbsturgi,MW,1145,1300  CSC 226,Discrete Mathematics for Computer Scientists,001,3,tmbarnes,MWF,935,1025 | **In Eclipse, after opening the actual\_schedule.txt file, all the correct contents are displayed in eclipse with all the correct names, sections, titles, credits, instructors, and meeting times.** |
| 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   * 13 courses listed in the catalog * My Super Awesome Schedule as the schedule title * 4 courses in my schedule (CSC 216-601, CSC 217-601, CSC 230-001, CSC 226-001) | **Exact same results as test case 11, all 13 courses displayed in catalog, title is correct with My Super Awesome Schedule, correct 4 courses in the schedule.** |