# Guided Project 2: System Test Plan

There are 15 system-level black box tests. All tests are worth 3 points for a total of 45 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!

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  (updated) | 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  Add Event section is empty | * **GUI loads** * **Catalog does not contain anything** * **The My Schedule section is empty** * **The add Event section is empty** |
| Test 2: Valid File  (updated) | 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  Add Event only shows labels | * **GUI loads** * **The Course Catalog in GUI has 13 total classes including:** * **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** * **Nothing in my schedule section** * **Nothing under the course details except: name, title, instructor, meeting, section, credits (labels)** * **The labels are only shown in Add event** |
| 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. | * **Box is displayed saying “No course selected in the catalog”** |
| Test 4: Add  (updated) | Preconditions: Test 2 has passed   1. Select the 4th row of the Course Catalog table (CSC216, 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 | * **Displayed under My Schedule as:** * **Name: CSC 216** * **Section: 001** * **Title: Software Development Fundamentals** * **Course details are displayed:** * **Name: CSC 216** * **Title: Software Development** * **Instructor: sesmith5** * **Credits: 3** * **Meeting: TH 1:30PM-2:45PM** * **The Course CSC 216, 001, Software Development Fundamentals 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 Activity** 3. *Check results* 4. Click **OK** 5. Close GUI | A pop-up dialog stating “No item selected in the schedule.” is displayed. | * **Box is displayed saying “No course selected in the catalog”** |
| 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, 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. | * **Displayed under My Schedule as:** * **Name: CSC 216** * **Section 002** * **Title: Software Development Fundamentals** * **Course details are displayed:** * **Name: CSC 216** * **Title: Software Development** * **Instructor: ixdoming** * **Credits: 3** * **Meeting: MW 1:30PM-2:45PM** * **Box displayed “You are already enrolled in CSC216”** |
| Test 14: Add Event  (new) | Preconditions: Test 2 and Test 4 have passed   1. Enter the following in the Add Event section:  * Event Title: Lunch * Event Weekly Repeat: 2 * Meeting Days: Mon and Wed * Event Start Time: 11:30AM * Event End Time: 12:30PM * Details: Meet at the Oval before class  1. Click **Add Event** 2. *Check results* 3. Close GUI | The event is in the schedule with title “Lunch” and meeting information of “MW 11:30AM-12:30PM (every 2 weeks)” | * **The event is in the schedule with title “Lunch” and meeting information of “MW 11:30AM-12:30PM (every 2 weeks)”** |
| Test 15: Duplicate Event  (new) | Preconditions: Test 2, Test 4, and Test14 have passed   1. Enter the following in the Add Event section:  * Event Title: Lunch * Event Weekly Repeat: 1 * Meeting Days: Tue * Event Start Time: 12:00PM * Event End Time: 1:30PM * Details: Lunch with mom  1. Click **Add Event** 2. *Check results* 3. Click **OK** 4. Close GUI | A pop-up dialog stating “You have already created an event called Lunch.” is displayed. | * **Box is displayed saying “You have already created an event called Lunch”** |
| 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 | * **The table in My Schedule does not contain anything** |
| Test 8: Add Several  (updated) | Preconditions: Test 2 has passed   1. (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. Enter the following in the Add Event section:  * Event Title: Exercise * Event Weekly Repeat: 1 * Meeting Days: Mon, Tue, Thu, Fri * Event Start Time: 8:00AM * Event End Time: 9:00AM * Details: Cardio days  1. Click **Add Event** 2. Select the 11th row of the Course Catalog table (CSC 226, 001, Discrete Mathematics for Computer Scientists) 3. Click **Add Course** 4. Enter the following in the Add Event section:  * Event Title: Lunch * Event Weekly Repeat: 1 * Meeting Days: Mon, Tue, Wed, Thu, Fri * Event Start Time: 11:45AM * Event End Time: 1:00PM * Details:  1. Click **Add Event** 2. *Check results* 3. Close GUI | My Schedule displays:   * CSC 216, 601, Software Development Fundamentals, Arranged * CSC 217, 601, Software Development Fundamentals Lab, Arranged * CSC 116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM * CSC 230, 001, C and Software Tools, MW 11:45AM-1:00PM * Exercise, MTHF 8:00AM-9:00AM (every 1 weeks) * CSC 226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM * Lunch, MTWHF, 11:45AM-1:00PM (every 1 weeks) | * **My Schedule shows:** * **CSC 216, 601, Software Development Fundamentals, Arranged** * **CSC 217, 601, Software Development Fundamentals Lab, Arranged** * **CSC 116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM** * **CSC 230, 001, C and Software Tools, MW 11:45AM-1:00PM** * **Exercise, MTHF 8:00AM-9:00AM (every 1 weeks)** * **CSC 226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM** * **Lunch, MTWHF, 11:45AM-1:00PM (every 1 weeks)** |
| Test 9: Remove  (updated) | Preconditions: Test 2 and Test 8 have passed  Select the 3rd row of the My Schedule table (CSC116, 002, Intro to Programming - Java)  Click **Remove Activity**  *Check results*  Select the 4th row of the My Schedule table (Exercise)  Click **Remove Activity**  *Check results*  Close GUI | My Schedule displays:   * CSC 216, 601, Software Development Fundamentals, Arranged * CSC 217, 601, Software Development Fundamentals Lab, Arranged * CSC 230, 001, C and Software Tools, MW 11:45AM-1:00PM * Exercise, MTHF 8:00AM-9:00AM (every 1 weeks) * CSC 226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM * Lunch, MTWHF, 11:45AM-1:00PM (every 1 weeks)   My Schedule displays:   * CSC 216, 601, Software Development Fundamentals, Arranged * CSC 217, 601, Software Development Fundamentals Lab, Arranged * CSC 230, 001, C and Software Tools, MW 11:45AM-1:00PM * CSC 226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM * Lunch, MTWHF, 11:45AM-1:00PM (every 1 weeks) | * **My Schedule contains:** * **CSC 216, 601, Software Development Fundamentals, Arranged** * **CSC 217, 601, Software Development Fundamentals Lab, Arranged** * **CSC 230, 001, C and Software Tools, MW 11:45AM-1:00PM** * **Exercise, MTHF 8:00AM-9:00AM (every 1 weeks)** * **CSC 226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM** * **Lunch, MTWHF, 11:45AM-1:00PM (every 1 weeks)** * **My Schedule contains:** * **CSC 216, 601, Software Development Fundamentals, Arranged** * **CSC 217, 601, Software Development Fundamentals Lab, Arranged** * **CSC 230, 001, C and Software Tools, MW 11:45AM-1:00PM** * **CSC 226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM** * **Lunch, MTWHF, 11:45AM-1:00PM (every 1 weeks)** |
| Test 10: Set Title | Preconditions: Test 1 or Test 2 have passed  Enter “My Super Awesome Schedule” into the Schedule Title text field  Click **Set Title**  *Check results*  Close GUI | The label on the third section of the GUI now contains the text “My Super Awesome Schedule” instead of “My Schedule” | * **“My Super Awesome Schedule” is displayed not “My Schedule” under the middle box** |
| Test 11: Finalize  (updated) | Preconditions: Test 2 and Tests 8-10 have passed  Click **Display Final Schedule**  *Check results*  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, “” * “”, “”, Lunch, “”, “”, MTWHF, 11:45AM-1:00PM (every 1 weeks) | * “My Super Awesome Schedule” contains: * **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, “”** * **“”, “”, Lunch, “”, “”, MTWHF, 11:45AM-1:00PM (every 1 weeks)** |
| Test 12: Export  (updated) | Preconditions: Test 2 and Tests 8-11 have passed  Click **Export Schedule**  Select test-files folder. Enter the filename actual\_schedule.txt  Click **Save** (it’s ok to overwrite old results)  *Check results*  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  Lunch,MTWHF,1145,1300,1, | * **Refresh WolfScheduler by right clicking project and selecting tab refresh** * **open actual\_schedule.txt in the test-files folder** * **actual\_schedule.txt contains:** * **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**  **Lunch,MTWHF,1145,1300,1,** |
| Test 13: Revise  (updated) | Preconditions: Test 2 and Tests 8-11 have passed  Click **Revise Schedule**  *Check Results*  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) and 1 event (Lunch) | **The Scheduler view displays:**   * **13 courses in catalog** * **“My Super Awesome Schedule” as the title for schedule** * **CSC 216-601, CSC 217-601, CSC 230-001, CSC 226-001) and 1 event (Lunch) in “my schedule”** |