# Guided Project 3: System Test Plan

## GP3 System Test Plan Instructions

There are 15 system-level system tests that were provided to validate that Guided Project 2 was working properly. You will ***revise*** the existing tests to meet the new requirements. Additionally, you will write another **5 system tests** for a total of **20 tests.**

**Identify *changed tests* by highlighting the row in light gray. Also, annotate the Test ID column with the tag (Modified).**

**Identify *new tests* by highlighting the row in a darker gray. Also, annotate the Test ID column with the tag (New).**

All tests are worth 1 point for a total of 20 points. For each test, half a point is for passing the test and half a point is for reporting the actual results of running the test on YOUR program - even if the test is failing! There are global deductions for incorrect highlighting.

## GP3 System Test Plan Execution Information

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

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

*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 run 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 * *Add Event section is empty* | **WolfSchdeulerGUI loads****Course Catalog , add event and 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 13 classes   * CSC 116, 001, Intro to Programming - Java, MW 9:10AM-11:00AM * CSC 116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM * CSC 116, 003, Intro to Programming - Java,TH 11:20AM-1:10PM * CSC 216, 001, Software Development Fundamentals, TH 1:30PM-2:45PM * CSC 216, 002, Software Development Fundamentals, MW 1:30PM-2:45PM * CSC 216, 601, Software Development Fundamentals, Arranged * CSC 217, 202, Software Development Fundamentals Lab, M 10:40AM-12:30PM * CSC 217, 211, Software Development Fundamentals Lab, T 8:30AM-10:20AM * CSC 217, 223, Software Development Fundamentals Lab, W 3:00PM-4:50PM * CSC 217, 601, Software Development Fundamentals Lab, Arranged * CSC 226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM * CSC 230, 001, C and Software Tools, MW 11:45PM-1:00PM * CSC 316, 001, Data Structures and Algorithms, MW 8:30AM-9:45AM   My Schedule is empty  Course Details only shows labels  *Add Event only shows labels* | **Course Catalog contains 13 classes exactly as expected results** |
| 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, 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 passing test 2:****Course details are displayed as expected.****Course CSC 216, section 001 title Software Development Fundamentals, and meeting times are 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. | **A pop-up dialog stating “No team 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, 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. | **Course Details are displayed as expected for the 5th row of the course catalog.****A pop-up dialog stating “You are already enrolled in CSC216” is displayed.** |
| Test 14: Add Event | Preconditions: Test 2 and Test 4 have passed   1. Enter the following in the Add Event section:  * Event Title: Lunch * 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 | My Schedule table contains:   * CSC 216, 001, Software Development Fundamentals, TH 1:30PM-2:45PM * “”, “”, Lunch, MW 11:30AM-12:30PM | **The My Schedule table contains CSC 216 course info and event info same as expected results** |
| Test 15: Duplicate Event | Preconditions: Test 2, Test 4, and Test14 have passed   1. Enter the following in the Add Event section:  * Event Title: Lunch * Meeting Days: Tue * Event Start Time: 12:00PM * Event End Time: 1:00PM * 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. | **A pop-up dialog stating “You have already created an event called Lunch” is dipsplayed** |
| 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  Modified | Preconditions: Test 2 has passed   1. Select the 6th row of the Course Catalog table (CSC 216, 601, Software Development Fundamentals, Arranged) 2. Click **Add Course** 3. Select the 10th row of the Course Catalog table (CSC 217, 601, Software Development Fundamental Lab, Arranged) 4. Click **Add Course**  Enter the following in the Add Event section:Event Title: ExerciseMeeting Days: Sun, Mon, Tue, Thu, FriEvent Start Time: 8:00AMEvent End Time: 9:00AMDetails: Cardio daysClick **Add Event**Select the 11th row of the Course Catalog table (CSC 226, 001, Discrete Mathematics for Computer Scientists)Click **Add Course**Enter the following in the Add Event section:Event Title: LunchMeeting Days: Mon, Tue, Wed, Thu, FriEvent Start Time: 11:45AMEvent End Time: 1:00PMDetails:Click **Add Event***Check results*Close GUI | My Schedule displays:CSC 216, 601, Software Development Fundamentals, ArrangedCSC 217, 601, Software Development Fundamentals Lab, Arranged“”, “”, Exercise, UMTHF 8:00AM-9:00AMCSC 226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM“”, “”, Lunch, MTWHF, 11:45AM-1:00PM | **The Schedule displays all the courses and events same as expected results** |
| Test 9: Remove  Modified | Preconditions: Test 2 and Test 8 have passed Select the 1st row of the My Schedule table (CSC 216, 601, Software Development Fundamentals, Arranged)Click **Remove Activity***Check results*Select the 4th row of the My Schedule table (Lunch)Click **Remove Activity***Check results*Close GUI | My Schedule displays:CSC 217, 601, Software Development Fundamentals Lab, Arranged“”, “”, Exercise, UMTHF 8:00AM-9:00AMCSC 226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM“”, “”, Lunch, MTWHF, 11:45AM-1:00PMMy Schedule displays:CSC 217, 601, Software Development Fundamentals Lab, Arranged“”, “”, Exercise, UMTHF 8:00AM-9:00AMCSC 226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM | **The Schedule displays all results as expected after removing activity in the 1st row of schedule****The Schedule displays all results as expected after removing activity in the 4th row of schedule** |
| 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” | **The schedule title now shows “My Super Awesome Schedule” instead of “My schedule”** |
| Test 11: Finalize  Modified | Preconditions: Test 2 and Tests 8-10 have passed  Click **Display Final Schedule**  *Check results*  Close GUI | Schedule Title: “My Super Awesome Schedule” Schedule TableCSC 217, 601, Software Development Fundamentals Lab, 1, sesmith5, Arranged, “”“”, “”, Exercise, “”, “”, UMTHF 8:30AM-9:00AM, Cardio daysCSC 226, 001, Discrete Mathematics for Computer Scientists, 3, tmbarnes, MWF 9:35AM-10:25AM, “” | **Schedule title shows “My Super Awesome Schedule”****Schedule table contains same results as expected results. All events and courses are shown with their corresponding info** |
| Test 12: Export  Modified | 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 217,Software Development Fundamentals Lab,601,1,sesmith5,AExercise,UMTHF,800,900,Cardio daysCSC 226,Discrete Mathematics for Computer Scientists,001,3,tmbarnes,MWF,935,1025 | **The contents of the file are the same as the expected results.** |
| Test 13: Revise  Modified | Preconditions: Test 2 and Tests 8-11 have passed  Click **Revise Schedule**  *Check Results*  Close GUI | The Scheduler view is shown with13 courses listed in the catalogMy Super Awesome Schedule as the schedule title2 courses in my schedule (CSC 216-601, CSC 217-601, CSC 230-001, CSC 226-001) and 1 event (Exercise) - all 3 columns are filled as expected for each activity. | **The scheduler view contains 13 courses listed in the catalog. Title contains “My Super Awesome Schedule”****As the schedule title. 2 courses in my schedule are and 1 event.** |
| Test 16:  EventConflict  Two Events with overlapping time  New | Preconditions: Test 2 and Tests 8-11 have passed1.Enter the following in the Add Event section:Event Title: YogaMeeting Days: MonEvent Start Time: 8:30AMEvent End Time: 9:00AMDetails:2. Click Event | A pop-up dialog stating “The event cannot be added due to a conflict.” is displayed. | A pop-up dialog stating “The event cannot be added due to a conflict.” is displayed. |
| Test 17:  CourseConflict  Two Courses  with overlapping time  New | Preconditions: Test 2 and Tests 8-11 have passedSelect the 1st row of the Course Catalog table (CSC 116, 001, Intro to Programming - Java, MW 9:10AM - 11:00AM)Click **Add Course** | A pop-up dialog stating “The course cannot be added due to a conflict.” is displayed. | A pop-up dialog stating “The course cannot be added due to a conflict.” is displayed. |
| Test 18:  Conflict  Course With Event  New | Preconditions: Test 2 and Tests 8-11 have passed1.Enter the following in the Add Event section:Event Title: YogaMeeting Days: MonEvent Start Time: 8:30AMEvent End Time: 10:00AMDetails:2. Click Event | A pop-up dialog stating “The event cannot be added due to a conflict.” is displayed. | A pop-up dialog stating “The event cannot be added due to a conflict.” is displayed. |
| Test 19:  Event Conflict Full  OverLap  With event  New | Preconditions: Test 2 and Tests 8-11 have passed1.Enter the following in the Add Event section:Event Title: YogaMeeting Days: Sun, Mon, Tues, Thurs, FriEvent Start Time: 8:00AMEvent End Time: 9:00AMDetails:2. Click Event | A pop-up dialog stating “The event cannot be added due to a conflict.” is displayed. | A pop-up dialog stating “The event cannot be added due to a conflict.” is displayed. |
| Test 20:  EventConflict Full Overlap with course  New | Preconditions: Test 2 and Tests 8-11 have passed1.Enter the following in the Add Event section:Event Title: YogaMeeting Days: Mon, Wed, FriEvent Start Time: 9:35 AMEvent End Time: 10:25AMDetails:2. Click Event | A pop-up dialog stating “The event cannot be added due to a conflict.” is displayed. | A pop-up dialog stating “The event cannot be added due to a conflict.” is displayed. |