Guided Project 3: Black Box Test Plan

There are 15 system-level **provided** black box tests.  You will revise the existing tests to meet the new requirements.  Additionally, you will write another **5 black box 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 2 points for a total of 40 points.  For each test, 1 point is 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.

Note that while all tests end with the statement to Close GUI, you can run Tests 2-15 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  Run WolfSchedulerGUI.  In the **Load Course Catalog** FileChooser dialog select: test-files/invalid\_course\_records.txt  Click **Select**  *Check results*  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  Run WolfSchedulerGUI.  In the **Load Course Catalog** FileChooser dialog select: test-files/course\_records.txt  Click **Select**  *Check results*  Close GUI | WolfSchdulerGUI loads  Course Catalog contains 8 classes   * CSC116, 001, Intro to Programming - Java, MW 9:10AM-11:00AM * CSC116, 002, Intro to Programming - Java, 11:20AM-1:10PM * CSC116, 003, Intro to Programming - Java, 11:20AM-1:10PM * CSC216, 001, Programming Concepts - Java, TH 1:30PM-2:45PM * CSC216, 002, Programming Concepts - Java, MW 1:30PM-2:45PM * CSC216, 601, Programming Concepts - Java, Arranged * CSC226, 001, Discrete Mathematics for Computer Scientists,MWF 9:35AM-10:25AM * CSC230, 001, C and Software Tools, MW 11:45AM-1:00PM   My Schedule is empty  Course Details only shows labels | WolfSchdulerGUI loads  Course Catalog contains 8 classes   * CSC116, 001, Intro to Programming - Java, MW 9:10AM-11:00AM * CSC116, 002, Intro to Programming - Java, 11:20AM-1:10PM * CSC116, 003, Intro to Programming - Java, 11:20AM-1:10PM * CSC216, 001, Programming Concepts - Java, TH 1:30PM-2:45PM * CSC216, 002, Programming Concepts - Java, MW 1:30PM-2:45PM * CSC216, 601, Programming Concepts - Java, Arranged * CSC226, 001, Discrete Mathematics for Computer Scientists,MWF 9:35AM-10:25AM * CSC230, 001, C and Software Tools, MW 11:45AM-1:00PM   My Schedule is empty  Course Details only shows labels |
| Test 3: Add - No Sel. | Preconditions: Test 2 has passed  Make sure that no row in the Course Catalog table is selected (if there is a row selected, restart the GUI)  Click **Add Course**  *Check results*  Click **OK**  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  Select the 4th row of the Course Catalog table (CSC216, 001, Programming Concepts - Java)  *Check results*  Click **Add Course**  *Check results*  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, TH 1:30PM-2:45PM 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, TH 1:30PM-2:45PM is listed in the My Schedule table |
| Test 5: Remove - No Sel. | Preconditions: Test 2 and Test 4  have passed  Make sure that no row in the My Schedule table is selected (if there is a row selected, restart the test)  Click **Remove Activity**  *Check results*  Click **OK**  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  Select the 5th row of the Course Catalog table (CSC216, 002, Programming Concepts - Java)  *Check results*  Click **Add Course**  *Check results*  Click **OK**  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 14: Add Event | Preconditions: Test 2 and Test 4 have passed  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 the gang at the oval before class   Click **Add Event**  *Check results*  Click **OK**  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: Conflict with a same day** | Preconditions: Test 2, Test 4, and Test14 have passed  Enter the following in the Add Event section:   * Event Title: Meeting * Event Weekly Repeat: 1 * Meeting Days: Wed * Event Start Time: 12:00PM * Event End Time: 1:30PM * Details: Meeting with boss   Click **Add Event**  *Check results*  Click **OK**  Close GUI | 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 7: Reset | Preconditions: Test 2 and Test 4 have passed  Click **Reset Schedule**  *Check results*  Close GUI | My Schedule table is empty | My Schedule table is empty |
| **Test 8: Adds Several But Runs into Conflict** | Preconditions: Test 2 has passed  Select the 6th row of the Course Catalog table (CSC216, 601, Programming Concepts - Java)  Click **Add Course**  Select the 2th row of the Course Catalog table (CSC116, 002, Intro to Programming - Java)  Click **Add Course**  Select the 8th row of the Course Catalog table (CSC230, 001, C and Software Tools)  Click **Add Course**  Enter the following in the Add Event section:   * Event Title: Meeting2 * Event Weekly Repeat: 1 * Meeting Days: Wed * Event Start Time: 12:00PM * Event End Time: 1:30PM * Details: Meeting with boss   Click **Add Event**  *Check results*  Close GUI | My Schedule displays:   * CSC216, 601, Programming Concepts - Java, Arranged * CSC116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM   A pop-up dialog stating “The event cannot be added due to a conflict” is displayed.   * The event is in the schedule with title “Meeting2” and meeting information of “W 12:00AM-1:30PM (every 1 weeks)” | My Schedule displays:   * CSC216, 601, Programming Concepts - Java, Arranged * CSC116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM   A pop-up dialog stating “The event cannot be added due to a conflict” is displayed.   * The event is in the schedule with title “Meeting2” and meeting information of “W 12:00AM-1:30PM (every 1 weeks)” |
| Test 9: Remove  (Modified due to Test 8 changed behavior) | Preconditions: Test 2 and Test 8 have passed  Select the 2nd row of the My Schedule table (CSC116, 002, Intro to Programming - Java)  Click **Remove Activity**  *Check results*    Close GUI | My Schedule displays:   * CSC216, 601, Programming Concepts - Java, Arranged * The event is in the schedule with title “Meeting2” and meeting information of “W 12:00AM-1:30PM (every 1 weeks)” | My Schedule displays:   * CSC216, 601, Programming Concepts - Java, Arranged * The event is in the schedule with title “Meeting2” and meeting information of “W 12:00AM-1:30PM (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” | The label on the third section of the GUI now contains the text “My Super Awesome Schedule” instead of “My Schedule” |
| **Test 11: Finalize –**  **Does not have CSC230, CSC226** | 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   * CSC216, 601, Programming Concepts - Java, 4, jep, Arranged, “” * The event is in the schedule with title “Meeting2” and meeting information of “W 12:00AM-1:30PM (every 1 weeks)” | Schedule Title: “My Super Awesome Schedule”  Schedule Table   * CSC216, 601, Programming Concepts - Java, 4, jep, Arranged, “” * The event is in the schedule with title “Meeting2” and meeting information of “W 12:00AM-1:30PM (every 1 weeks)” |
| **Test 12: Export –**  **Does not have CSC230, CSC226** | 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:  CSC216,Programming Concepts - Java,601,4,jep,A  Meeting2, W,1200,1330,1 | 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  Meeting2, W,1200,1330,1 |
| **Test 13: Revise –**  **Does not have CSC230, CSC226** | Preconditions: Test 2 and Tests 8-11 have passed  Click **Revise Schedule**  *Check Results*  Close GUI | The Scheduler view is shown with   * 8 courses listed in the catalog * My Super Awesome Schedule as the schedule title * 1 course in my schedule (CSC216-601) and 1 event (Meeting2) | The Scheduler view is shown with   * 8 courses listed in the catalog * My Super Awesome Schedule as the schedule title * 1 course in my schedule (CSC216-601) and 1 event (Meeting2) |
| **Test 16:**  **Adding event to a schedule for general overlap** | Make sure to rerun WolfScheduler  Preconditions: Test 2 and Tests 8-11 have passed  Click on the fifth row CSC216 (002) from the catalog.  Click “Add”  Create and event.   * Event Title: Meeting3 * Event Weekly Repeat: 1 * Meeting Days: Wed * Event Start Time: 1:00PM * Event End Time: 3:30PM * Details: Meeting with boss   Click “Add” | My Schedule displays:   * CSC116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM   A pop-up dialog stating “The event cannot be added due to a conflict” is displayed. | My Schedule displays:   * CSC116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM   A pop-up dialog stating “The event cannot be added due to a conflict” is displayed. |
| **Test 17:**  **Check activity conflict if the start time of one activity is the same as End time of another** | Preconditions: Test 2 and Tests 8-11, and 16 have passed  Create and event.   * Event Title: Meeting4 * Event Weekly Repeat: 1 * Meeting Days: Wed * Event Start Time: 1:10PM * Event End Time: 3:30PM * Details: Meeting with boss   Click “Add”  RESTART WOLFSCHEDULER | My Schedule displays:   * CSC116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM   A pop-up dialog stating “The event cannot be added due to a conflict” is displayed. | My Schedule displays:   * CSC116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM   A pop-up dialog stating “The event cannot be added due to a conflict” is displayed. |
| **Test 18:**  **Adding an “Arranged” event does not affect anything** | Preconditions: Test 2 and Tests 8-11, 16 has passed  Click on the sixth row and add CSC216 (601), Arrange course  Click “Add”  Click on the first row and add CSC116, (001), MW, 9:10AM – 11:00AM  Click “Add”  Create and event.   * Event Title: Meeting5 * Event Weekly Repeat: 1 * Meeting Days: Wed * Event Start Time: 8:00AM * Event End Time: 3:30PM * Details: Meeting with boss   Click “Add” | My Schedule displays:   * CSC116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM * CSC216, 601, Arranged * Meeting5, W, 0800,1530,1 | My Schedule displays:   * CSC116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM * CSC216, 601, Arranged * Meeting5, W, 1310,1530,1 |
| **Test 19:**  **Checking if conflict errors even if at least one day is the same (for course)** | Preconditions: Test 2 and Tests 8-11, 16, 18 have passed  Click on the eighth row – CSC 230, 001, MW, 1145, 1300  Click “Add” | My Schedule displays:   * CSC116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM * CSC216, 601, Programming Concepts, Arranged * Meeting5, W, 0800,1530,1   Then,  A pop-up dialog stating “The course cannot be added due to a conflict” is displayed. | My Schedule displays:   * CSC116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM * CSC216, 601, Programming Concepts, Arranged * Meeting5, W, 0800,1530,1   Then,  A pop-up dialog stating “The course cannot be added due to a conflict” is displayed. |
| **Test 20:**  **Check if different days don’t effect activities even if the end and start time are in conflict.** | Preconditions: Test 2 and Tests 8-11, 16, 18, 19 have passed  Click on the seventh row and - CSC 226, MWF, 0935, 1025  Click Add | My Schedule displays:   * CSC116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM * CSC216, 601, Programming Concepts, Arranged * Meeting5, W, 0800,1530,1 * CSC 226, Discrete Math for…, MWF, 0935, 1025 | My Schedule displays:   * CSC116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM * CSC216, 601, Programming Concepts, Arranged * Meeting5, W, 0800,1530,1 * CSC 226, Discrete Math for…, MWF, 0935, 1025 |