# 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, MW 11:20AM-1:10PM * CSC116, 003, Intro to Programming - Java, TH 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, MW 11:20AM-1:10PM * CSC116, 003, Intro to Programming - Java, TH 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: Duplicate Event | Preconditions: Test 2, Test 4, and Test 14 have passed  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   Click **Add Event**  *Check results*  Click **OK**  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 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 16:  Conflicting Events Upper Bound  (New) | Preconditions: Test 2, Test 4, Test 14 all passed  Enter the following in the Add Event section:   * Event Title: Event 1 * Event Weekly Repeat: 1 * Meeting Days: Monday * Event Start Time: 11:00AM * Event End Time: 12:00PM * Details: n/a   Click **Add Event**  Enter the following in the Add Event section:   * Event Title: Event 2 * Event Weekly Repeat: 1 * Meeting Days: Monday * Event Start Time: 10:00AM * Event End Time: 11:00AM * Details: n/a   Click **Add Event**  *Check results*  Click **OK**  Close GUI | Event 1 is added successfully to the schedule: “Event 1” with meeting information “M 11:00AM-12:00PM (every 1 weeks)”  A pop-dialog stating “The event cannot be added due to a conflict” is displayed. | Event 1 is added successfully to the schedule: “Event 1” with meeting information “M 11:00AM-12:00PM (every 1 weeks)”  A pop-dialog stating “The event cannot be added due to a conflict” is displayed. |
| Test 17:  Conflicting Events  Lower Bound  (New) | Preconditions: Test 2, Test 4, Test 14 all passed  Enter the following in the Add Event section:   * Event Title: Event 1 * Event Weekly Repeat: 1 * Meeting Days: Monday * Event Start Time: 11:00AM * Event End Time: 12:00PM * Details: n/a   Click **Add Event**  Enter the following in the Add Event section:   * Event Title: Event 2 * Event Weekly Repeat: 1 * Meeting Days: Monday * Event Start Time: 12:00PM * Event End Time: 1:00PM * Details: n/a   Click **Add Event**  *Check results*  Click **OK**  Close GUI | Event 1 is added successfully to the schedule: “Event 1” with meeting information “M 11:00AM-12:00PM (every 1 weeks)”  A pop-dialog stating “The event cannot be added due to a conflict” is displayed. | Event 1 is added successfully to the schedule: “Event 1” with meeting information “M 11:00AM-12:00PM (every 1 weeks)”  A pop-dialog stating “The event cannot be added due to a conflict” is displayed. |
| Test 18:  Conflicting Events  Middle Value  (New) | Preconditions: Test 2, Test 4, Test 14 all passed  Enter the following in the Add Event section:   * Event Title: Event 1 * Event Weekly Repeat: 1 * Meeting Days: Monday * Event Start Time: 11:00AM * Event End Time: 12:00PM * Details: n/a   Click **Add Event**  Enter the following in the Add Event section:   * Event Title: Event 2 * Event Weekly Repeat: 1 * Meeting Days: Monday * Event Start Time: 11:15AM * Event End Time: 11:50AM * Details: n/a   Click **Add Event**  *Check results*  Click **OK**  Close GUI | Event 1 is added successfully to the schedule: “Event 1” with meeting information “M 11:00AM-12:00PM (every 1 weeks)”  A pop-dialog stating “The event cannot be added due to a conflict” is displayed. | Event 1 is added successfully to the schedule: “Event 1” with meeting information “M 11:00AM-12:00PM (every 1 weeks)”  A pop-dialog stating “The event cannot be added due to a conflict” is displayed. |
| Test 19:  Conflicting Courses  (New) | Preconditions: Test 2, Test 4 all passed  Select the 1st row in the course catalog (CSC116, 001, Intro to Programming – Java, MW 9:10AM-11:00AM)  Click **Add Course**  Select the 7th row in the course catalog (CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM)  Click **Add Course**  *Check results*  Click **OK**  Close GUI | Course CSC116, 001, Intro to Programming – Java, MW 9:10AM-11:00AM is successfully added to the schedule  A pop-dialog stating “The course cannot be added due to a conflict” is displayed. | Course CSC116, 001, Intro to Programming – Java, MW 9:10AM-11:00AM is successfully added to the schedule  A pop-dialog stating “The course cannot be added due to a conflict” is displayed. |
| Test 20:  Conflicting Course And Event  (New) | Preconditions: Test 2, Test 4, Test 14 all passed  Enter the following in the Add Event section:   * Event Title: Event 1 * Event Weekly Repeat: 1 * Meeting Days: Wednesday * Event Start Time: 11:00AM * Event End Time: 12:00PM * Details: n/a   Click **Add Event**  Select the 1st row in the course catalog (CSC116, 001, Intro to Programming – Java, MW 9:10AM-11:00AM)  Click **Add Course**  *Check results*  Click **OK**  Close GUI | Event 1 is added successfully to the schedule: “Event 1” with meeting information “W 11:00AM-12:00PM (every 1 weeks)”  A pop-dialog stating “The course cannot be added due to a conflict” is displayed. | Event 1 is added successfully to the schedule: “Event 1” with meeting information “W 11:00AM-12:00PM (every 1 weeks)”  A pop-dialog stating “The course cannot be added due to a conflict” is displayed. |
| Test 8: Add Several  (Modified) | Preconditions: Test 2 has passed  Select the 6th row of the Course Catalog table (CSC216, 601, Programming Concepts - Java)  Click **Add Course**  Select the 3rd row of the Course Catalog table (CSC116, 003, 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: Exercise * Event Weekly Repeat: 1 * Meeting Days: Mon, Tue, Thu, Fri * Event Start Time: 8:00AM * Event End Time: 9:00PM * Details: Cardio days   Click **Add Event**  Select the 7th row of the Course Catalog table (CSC226, 001, Discrete Mathematics for Computer Scientists)  Click **Add Course**  *Check results*  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: 1:15PM * Event End Time: 2:30PM * Details:   Click **Add Event**  Close GUI | My Schedule displays:   * CSC216, 601, Programming Concepts - Java, Arranged * CSC116, 003, Intro to Programming - Java, TH 11:20AM-1:10PM * CSC230, 001, C and Software Tools, MW 11:45AM-1:00PM * Exercise, MTHF 8:00AM-9:00AM (every 1 weeks) * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM * Lunch, MTWHF, 1:15PM-2:30PM (every 1 weeks) | My Schedule displays:   * CSC216, 601, Programming Concepts - Java, Arranged * CSC116, 003, Intro to Programming - Java, TH 11:20AM-1:10PM * CSC230, 001, C and Software Tools, MW 11:45AM-1:00PM * Exercise, MTHF 8:00AM-9:00AM (every 1 weeks) * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM * Lunch, MTWHF, 1:15PM-2:30PM (every 1 weeks) |
| Test 9: Remove  (Modified) | Preconditions: Test 2 and Test 8 have passed  Select the 2nd row of the My Schedule table (CSC116, 003, Intro to Programming - Java)  Click **Remove Activity**  *Check results*  Select the 3rd row of the My Schedule table (Exercise)  Click **Remove Activity**  *Check results*  Close GUI | My Schedule displays:   * CSC216, 601, Programming Concepts - Java, Arranged * CSC230, 001, C and Software Tools, MW 11:45AM-1:00PM * Exercise, MTHF 8:00AM-9:00AM (every 1 weeks) * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM * Lunch, MTWHF, 1:15PM-2:30PM (very 1 weeks)   My Schedule displays:   * CSC216, 601, Programming Concepts - Java, Arranged * CSC230, 001, C and Software Tools, MW 11:45AM-1:00PM * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM * Lunch, MTWHF, 1:15PM-2:30PM (very 1 weeks) | My Schedule displays:   * CSC216, 601, Programming Concepts - Java, Arranged * CSC230, 001, C and Software Tools, MW 11:45AM-1:00PM * Exercise, MTHF 8:00AM-9:00AM (every 1 weeks) * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM * Lunch, MTWHF, 1:15PM-2:30PM (very 1 weeks)   My Schedule displays:   * CSC216, 601, Programming Concepts - Java, Arranged * CSC230, 001, C and Software Tools, MW 11:45AM-1:00PM * CSC226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM * Lunch, MTWHF, 1:15PM-2:30PM (very 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  (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 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, “” * “”, “”, Lunch, “”, “”, MTWHF, 1:15PM-2:30PM (every 1 weeks) | 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, “” * “”, “”, Lunch, “”, “”, MTWHF, 1:15PM-2:30PM (every 1 weeks) |
| 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:  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  Lunch,MTWHF,1315,1430,1, | Actual file contents:  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  Lunch,MTWHF,1315,1430,1, |
| Test 13: Revise | 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 * 3 courses in my schedule (CSC216-601, CSC230-001, CSC226-001) and 1 event (Lunch) | 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) and 1 event (Lunch) |