# 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).**

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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* | * WolfSchdulerGUI loads * Course Catalog is empty * My Schedule is empty * Course Details only shows labels * *Add Event section is empty* |
| 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* | 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* |
| 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 Course | 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 | 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 |
| 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 item 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   * 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. |
| 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 | My Schedule table contains:   * CSC 216, 001, Software Development Fundamentals, TH 1:30PM-2:45PM   “”, “”, Lunch, MW 11:30AM-12:30PM |
| Test 15: Duplicate Event | Preconditions: Test 2, Test 4, and Test 14 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 displayed. |
| 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** 5. Select the 2nd row of the Course Catalog table (CSC 116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM) 6. Click **Add Course** 7. Select the 13th row of the Course Catalog table (CSC 316, 001, Data Structures and Algorithms, MW 8:30AM-9:45AM) 8. Click **Add Course** 9. Enter the following in the Add Event section:  * Event Title: Exercise * Meeting Days: Sun, Tue, Thu, Sat * Event Start Time: 8:00AM * Event End Time: 9:00AM * Details: Cardio days  1. Click **Add Event** 2. Enter the following in the Add Event section:  * Event Title: Lunch * Meeting Days: Mon, Tue, Wed, Thu, Fri * Event Start Time: 1:30PM * Event End Time: 2:30PM * 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 316, 001, Data Structures and Algorithms, MW 8:30AM-9:45AM * “”, “”, Exercise, UTHS 8:00AM-9:00AM * “”, “”, Lunch, MTWHF, 1:30PM-2:30PM | 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 316, 001, Data Structures and Algorithms, MW 8:30AM-9:45AM * “”, “”, Exercise, UTHS 8:00AM-9:00AM   “”, “”, Lunch, MTWHF, 1:30PM-2:30PM |
| Test 9: Remove  Modified | 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**  Select the 5th row of the My Schedule table (Lunch)  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 316, 001, Data Structures and Algorithms, MW 8:30AM-9:45AM * “”, “”, Exercise, UTHS 8:00AM-9:00AM | My Schedule displays:   * CSC 216, 601, Software Development Fundamentals, Arranged * CSC 217, 601, Software Development Fundamentals Lab, Arranged * CSC 316, 001, Data Structures and Algorithms, MW 8:30AM-9:45AM   “”, “”, Exercise, UTHS 8:00AM-9:00AM |
| 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 | Preconditions: Test 2 and Tests 8-10 have passed  Click **Display Final Schedule**  *Check results*  Close GUI | | Schedule Title: “My Super Awesome Schedule”  My Schedule displays:   * CSC 216, 601, Software Development Fundamentals, Arranged * CSC 217, 601, Software Development Fundamentals Lab, Arranged * CSC 316, 001, Data Structures and Algorithms, MW 8:30AM-9:45AM * “”, “”, Exercise, UTHS 8:00AM-9:00AM | Schedule Title: “My Super Awesome Schedule”  My Schedule displays:   * CSC 216, 601, Software Development Fundamentals, Arranged * CSC 217, 601, Software Development Fundamentals Lab, Arranged * CSC 316, 001, Data Structures and Algorithms, MW 8:30AM-9:45AM * “”, “”, Exercise, UTHS 8:00AM-9:00AM |
| Test 12: Export | 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 316,Data Structures and Algorithms,001,3,jtking,MW,830,945  Exercise,UTHS,800,900,Cardio days | 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 316,Data Structures and Algorithms,001,3,jtking,MW,830,945  Exercise,UTHS,800,900,Cardio days |
| 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   * 13 courses listed in the catalog * My Super Awesome Schedule as the schedule title * 3 courses in my schedule (CSC 216-601, CSC 217-601, CSC 316-001and 1 event (Exercise) - all 4 columns are filled as expected for each activity. | The Scheduler view is shown with   * 13 courses listed in the catalog * My Super Awesome Schedule as the schedule title   3 courses in my schedule (CSC 216-601, CSC 217-601, CSC 316-001and 1 event (Exercise) - all 4 columns are filled as expected for each activity. |
| Test 16:  Add Course Conflict  (new) | Preconditions: Test 2, 4, and 14 have passed  Click **Reset Schedule**  Select the 1th row of the Course Catalog table (CSC116, 001, Intro to Programming - Java)  Click **Add Course**  Select the 7th row of the Course Catalog table (CSC116, 001, Intro to Programming - Java)  Click **Add Course**  *Check Results*  Click **OK** | | 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 17: Add Event Conflict with Course  (new) | Preconditions: Test 2, 14, and 16 have passed  Click **Add Course**  Enter the following in the Add Event section:   * Event Title: Conflict * Meeting Days: Mon, Wed, Fri * Event Start Time: 10:00AM * Event End Time: 11:00AM   Click **Add Event**  *Check results*  Click **OK** | | 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 18: Add Event Conflict  (new) | Preconditions: Test 2, 4, 7, and 14 have passed  Click **Reset Schedule**  Enter the following in the Add Event section:   * Event Title: Conflict * Meeting Days: Mon, Wed, Fri * Event Start Time: 10:00AM * Event End Time: 11:00AM   Click **Add Event**  Enter the following in the Add Event section:   * Event Title: Conflict Two * Meeting Days: Mon, Wed, Fri * Event Start Time: 10:00AM * Event End Time: 11:00AM   Click **Add Event**  *Check results*  Click **OK** | | 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: Add Event Borderline Conflict  (new) | | Preconditions: Test 2, 14, and 18 have passed  Enter the following in the Add Event section:   * Event Title: Conflict Two * Meeting Days: Mon, Wed, Fri * Event Start Time: 11:00AM * Event End Time: 11:30AM   Click **Add Event**  *Check results*  Click **OK** | 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:  Add Event Inside Another  (new) | Preconditions: Test 2, 14, and 19 have passed  Enter the following in the Add Event section:   * Event Title: Conflict Two * Meeting Days: Mon, Wed, Fri * Event Start Time: 10:10AM * Event End Time: 10:50AM   Click **Add Event**  *Check results*  Click **OK** | | 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. |