

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

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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
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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.

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. <i>Check results</i> 5. Close GUI	<ul style="list-style-type: none"> • WolfSchdulerGUI loads • Course Catalog is empty • My Schedule is empty • Course Details only shows labels • <i>Add Event section is empty</i> 	
Test 2: Valid File	Preconditions: None 1. Run WolfSchedulerGUI. 2. In the Load Course Catalog FileChooser dialog select: test-files/course_records.txt	WolfSchdulerGUI loads Course Catalog contains 13 classes <ul style="list-style-type: none"> • CSC 116, 001, Intro to Programming - Java, MW 	

	<p>3. Click Select</p> <p>4. <i>Check results</i></p> <p>5. Close GUI</p>	<p>9:10AM-11:00AM</p> <ul style="list-style-type: none"> ● 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 	
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		<p>Scientists, MWF 9:35AM-10:25AM</p> <ul style="list-style-type: none"> • CSC 230, 001, C and Software Tools, MW 11:45PM-1:00PM • CSC 316, 001, Data Structures and Algorithms, MW 8:30AM-9:45AM <p>My Schedule is empty</p> <p>Course Details only shows labels</p> <p><i>Add Event only shows labels</i></p>	
Test 3: Add - No Sel.	<p>Preconditions: Test 2 has passed</p> <ol style="list-style-type: none"> 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. <i>Check results</i> 4. Click OK 5. Close GUI 	<p>A pop-up dialog stating "No course selected in the catalog." is displayed.</p>	
Test 4: Add	<p>Preconditions: Test 2 has passed</p> <ol style="list-style-type: none"> 1. Select the 4th row of the Course Catalog table (CSC216, 001, Software Development Fundamentals) 	<p>Course Details are displayed</p> <ul style="list-style-type: none"> • Name: CSC 216 • Section: 001 • Title: Software Development Fundamentals 	

	<ol style="list-style-type: none"> 2. <i>Check results</i> 3. Click Add Course 4. <i>Check results</i> 5. Close GUI 	<ul style="list-style-type: none"> ● Instructor: sesmith5 ● Credits: 3 ● Meeting: TH 1:30PM-2:45PM <p>Course CSC 216, 001, Software Development Fundamentals is listed in the My Schedule table</p>	
Test 5: Remove - No Sel.	<p>Preconditions: Test 2 and Test 4 have passed</p> <ol style="list-style-type: none"> 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. <i>Check results</i> 4. Click OK 5. Close GUI 	<p>A pop-up dialog stating “No item selected in the schedule.” is displayed.</p>	
Test 6: Add Same Course	<p>Preconditions: Test 2 and Test 4 have passed</p> <ol style="list-style-type: none"> 1. Select the 5th row of the Course Catalog table (CSC216, 002, Software Development Fundamentals) 2. <i>Check results</i> 3. Click Add Course 4. <i>Check results</i> 	<p>Course Details are displayed</p> <ul style="list-style-type: none"> ● Name: CSC 216 ● Section: 002 ● Title: Software Development Fundamentals ● Instructor: ixdoming ● Credits: 3 ● Meeting: MW 1:30PM-2:45PM 	

	<p>5. Click OK</p> <p>6. Close GUI</p>	<p>A pop-up dialog stating “You are already enrolled in CSC216” is displayed.</p>	
<p>Test 14: Add Event</p>	<p>Preconditions: Test 2 and Test 4 have passed</p> <p>1. Enter the following in the Add Event section:</p> <ul style="list-style-type: none"> ● 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 <p>2. Click Add Event</p> <p>3. <i>Check results</i></p> <p>4. Close GUI</p>	<p>My Schedule table contains:</p> <ul style="list-style-type: none"> ● CSC 216, 001, Software Development Fundamentals, TH 1:30PM-2:45PM ● “”, “”, Lunch, MW 11:30AM-12:30PM 	
<p>Test 15: Duplicate Event</p>	<p>Preconditions: Test 2, Test 4, and Test14 have passed</p> <p>1. Enter the following in the Add Event section:</p> <ul style="list-style-type: none"> ● Event Title: Lunch ● Meeting Days: Tue ● Event Start Time: 12:00PM ● Event End Time: 1:00PM ● Details: Lunch with mom <p>2. Click Add Event</p> <p>3. <i>Check results</i></p>	<p>A pop-up dialog stating “You</p>	

	<ol style="list-style-type: none"> 4. Click OK 5. Close GUI 	have already created an event called Lunch.” is displayed.	
Test 7: Reset	<p>Preconditions: Test 2 and Test 4 have passed</p> <ol style="list-style-type: none"> 1. Click Reset Schedule 2. <i>Check results</i> 3. Close GUI 	My Schedule table is empty	
Test 8: Add Several	<p>Preconditions: Test 2 has passed</p> <ol style="list-style-type: none"> 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 12th row of the Course Catalog table (CSC 230, 001, C and Software Tools, MW 11:45AM-1:00PM) 	<p>My Schedule displays:</p> <ul style="list-style-type: none"> ● 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, UMTHF 8:00AM-9:00AM ● CSC 226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM ● “”, “”, Lunch, MTWHF, 11:45AM-1:00PM 	

	<p>8. Click Add Course</p> <p>9. Enter the following in the Add Event section:</p> <ul style="list-style-type: none"> ● Event Title: Exercise ● Meeting Days: Sun, Mon, Tue, Thu, Fri ● Event Start Time: 8:00AM ● Event End Time: 9:00AM ● Details: Cardio days <p>10. Click Add Event</p> <p>11. Select the 11th row of the Course Catalog table (CSC 226, 001, Discrete Mathematics for Computer Scientists)</p> <p>12. Click Add Course</p> <p>13. Enter the following in the Add Event section:</p> <ul style="list-style-type: none"> ● Event Title: Lunch ● Meeting Days: Mon, Tue, Wed, Thu, Fri ● Event Start Time: 11:45AM ● Event End Time: 1:00PM ● Details: <p>14. Click Add Event</p> <p>15. <i>Check results</i></p> <p>16. Close GUI</p>		
<p>Test 9: Remove</p>	<p>Preconditions: Test 2 and Test 8 have passed</p> <p>Select the 3rd row of the My Schedule table (CSC116, 002, Intro to Programming - Java)</p> <p>Click Remove Activity</p>	<p>My Schedule displays:</p> <ul style="list-style-type: none"> ● CSC 216, 601, Software Development Fundamentals, Arranged ● CSC 217, 601, Software Development 	

	<p><i>Check results</i></p> <p>Select the 6th row of the My Schedule table (Lunch)</p> <p>Click Remove Activity</p> <p><i>Check results</i></p> <p>Close GUI</p>	<p>Fundamentals Lab, Arranged</p> <ul style="list-style-type: none"> ● CSC 230, 001, C and Software Tools, MW 11:45AM-1:00PM ● “”, “”, Exercise, UMTHF 8:00AM-9:00AM ● CSC 226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM ● “”, “”, Lunch, MTWHF, 11:45AM-1:00PM <p>My Schedule displays:</p> <ul style="list-style-type: none"> ● 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, UMTHF 8:00AM-9:00AM ● CSC 226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM 	
<p>Test 10: Set Title</p>	<p>Preconditions: Test 1 or Test 2 have passed</p> <p>Enter “My Super Awesome Schedule” into the</p>	<p>The label on the third section of the GUI now contains the text “My Super Awesome</p>	

	<p>Schedule Title text field</p> <p>Click Set Title</p> <p><i>Check results</i></p> <p>Close GUI</p>	<p>Schedule” instead of “My Schedule”</p>	
<p>Test 11: Finalize</p>	<p>Preconditions: Test 2 and Tests 8-10 have passed</p> <p>Click Display Final Schedule</p> <p><i>Check results</i></p> <p>Close GUI</p>	<p>Schedule Title: “My Super Awesome Schedule”</p> <p>Schedule Table</p> <ul style="list-style-type: none"> ● 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, “” ● “”, “”, Exercise, “”, “”, UMTFH 8:30AM-9:00AM, Cardio days ● CSC 226, 001, Discrete Mathematics for Computer Scientists, 3, tmbarnes, MWF 9:35AM-10:25AM, “” 	
<p>Test 12: Export</p>	<p>Preconditions: Test 2 and Tests 8-11 have passed</p> <p>Click Export Schedule</p>	<p>In Eclipse, right click on the WolfScheduler project and select Refresh.</p>	

	<p>Select <code>test-files</code> folder. Enter the filename <code>actual_schedule.txt</code></p> <p>Click Save (it's ok to overwrite old results)</p> <p><i>Check results</i></p> <p>Close GUI</p>	<p>Open the <code>test-files</code> folder and open <code>actual_schedule.txt</code> in the editor.</p> <p>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 Exercise, UMTHF, 800, 900, Cardio days CSC 226, Discrete Mathematics for Computer Scientists, 001, 3, tmbarnes, MWF, 935, 1025</p>	
<p>Test 13: Revise</p>	<p>Preconditions: Test 2 and Tests 8-11 have passed</p> <p>Click Revise Schedule</p> <p><i>Check Results</i></p> <p>Close GUI</p>	<p>The Scheduler view is shown with</p> <ul style="list-style-type: none"> • 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 (Exercise) - all 4 columns are filled as expected for each activity.	
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