## Guided Project 2: System Test Plan: Brandon Wroblewski

There are 15 system-level black box tests. All tests are worth 3 points for a total of 45 points. For each test, 2 points are 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 and the contents of the files used in testing are below:

## invalid\_course\_records.txt

```
O01, 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, 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, 6, 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
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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, 001, 3, sesmith5, MW, 1330, 1445
CSC 216, Software Development Fundamentals, 001, 3, sesmith5, MWA, 1330, 1445
CSC 216, Software Development Fundamentals, 001, 3, sesmith5, MWA, 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, MW, 1445, 1330, 1445
CSC 216, Software Development Fundamentals, 001, 3, sesmith5, MTWHT, 1330, 1445
CSC 216, Software Development Fundamentals, 001, 3, sesmith5, MTWHT, 1330, 1445, extra
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## 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
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Note that while all tests end with the statement to Close GUI, you can run Tests 2-13 on the same GUI if there are no failures. If there are failures, you can use the preconditions to identify the dependent test cases.

Test ID **Expected Results Description Actual Results** Test 1: Preconditions: None WolfSchdulerGUI loads WolfSchdulerGUI loads Invalid File Run WolfSchedulerGUI. Course Catalog is empty Course Catalog is empty (updated) 2. In the Load Course Catalog FileChooser My Schedule is empty My Schedule is empty dialog select: test-files/invalid course records. Course Details only shows Course Details only shows labels labels txt 3. Click Select Add Event section is empty • Add Event section is empty 4. Check results Close GUI Preconditions: None WolfSchdulerGUI loads WolfSchdulerGUI loads Test 2: Valid File 1. Run WolfSchedulerGUI. Course Catalog contains 13 Course Catalog contains 13 (updated) classes classes 2. In the Load Course Catalog FileChooser • CSC 116, 001, Intro to • CSC 116, 001, Intro to Programming - Java, MW Programming - Java, MW dialog select: test-files/course records.txt 9:10AM-11:00AM 9:10AM-11:00AM • CSC 116, 002, Intro to CSC 116, 002, Intro to Click Select Programming - Java, MW Programming - Java, MW 11:20AM-1:10PM 11:20AM-1:10PM • CSC 116, 003, Intro to • CSC 116, 003, Intro to 4. Check results Programming - Java, TH Programming - Java, TH

5. Close GUI  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, 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, 202, Software Development Fundamentals Lab, M 10:40AM-12:30PM CSC 217, 211, Software Development Fundamentals Lab, M 10:40AM-12:30PM CSC 217, 211, Software Development Fundamentals Lab, T 8:30AM-10:20AM CSC 217, 233, Software Development Fundamentals Lab, W 3:00PM-4:50PM CSC 217, 601, Software Development Fundamentals Lab, W 3:00PM-4:50PM CSC 217, 601, Software Development Fundamentals Lab, W 3:00PM-4:50PM CSC 217, 601, 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			
	5. Close GUI	<ul> <li>CSC 216, 001, Software Development Fundamentals, TH 1:30PM-2:45PM</li> <li>CSC 216, 002, Software Development Fundamentals, MW 1:30PM-2:45PM</li> <li>CSC 216, 601, Software Development Fundamentals, Arranged</li> <li>CSC 217, 202, Software Development Fundamentals Lab, M 10:40AM-12:30PM</li> <li>CSC 217, 211, Software Development Fundamentals Lab, T 8:30AM-10:20AM</li> <li>CSC 217, 223, Software Development Fundamentals Lab, W 3:00PM-4:50PM</li> <li>CSC 217, 601, Software Development Fundamentals Lab, W 3:00PM-4:50PM</li> <li>CSC 217, 601, Software Development Fundamentals Lab, Arranged</li> <li>CSC 226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM</li> </ul>	<ul> <li>CSC 216, 001, Software Development Fundamentals, TH 1:30PM-2:45PM</li> <li>CSC 216, 002, Software Development Fundamentals, MW 1:30PM-2:45PM</li> <li>CSC 216, 601, Software Development Fundamentals, Arranged</li> <li>CSC 217, 202, Software Development Fundamentals Lab, M 10:40AM-12:30PM</li> <li>CSC 217, 211, Software Development Fundamentals Lab, T 8:30AM-10:20AM</li> <li>CSC 217, 223, Software Development Fundamentals Lab, W 3:00PM-4:50PM</li> <li>CSC 217, 601, Software Development Fundamentals Lab, W 3:00PM-4:50PM</li> <li>CSC 217, 601, Software Development Fundamentals Lab, Arranged</li> <li>CSC 226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM</li> </ul>

		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	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.	<ol> <li>Preconditions: Test 2 has passed</li> <li>Make sure that no row in the Course Catalog table is selected (if there is a row selected, restart the GUI)</li> <li>Click Add Course</li> <li>Check results</li> <li>Click OK</li> <li>Close GUI</li> </ol>	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	Course Details are displayed  Name: CSC 216  Section: 001  Title: Software Development Fundamentals Instructor: sesmith5	Course Details are displayed  Name: CSC 216  Section: 001  Title: Software Development Fundamentals Instructor: sesmith5

	3. Click Add Course  4. Check results	<ul><li>Credits: 3</li><li>Meeting: TH</li><li>1:30PM-2:45PM</li></ul>	<ul><li>Credits: 3</li><li>Meeting: TH</li><li>1:30PM-2:45PM</li></ul>
	5. Close GUI	Course CSC 216, 001, Software Development Fundamentals is listed in the My Schedule table	Course CSC 216, 001, Software Development Fundamentals is listed in the My Schedule table
Test 5: Remove - No Sel.	<ol> <li>Preconditions: Test 2 and Test 4 have passed</li> <li>Make sure that no row in the My Schedule table is selected (if there is a row selected, restart the test)</li> <li>Click Remove Activity</li> <li>Check results</li> <li>Click OK</li> <li>Close GUI</li> </ol>	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	Course Details are displayed  Name: CSC 216 Section: 002 Title: Software Development Fundamentals Instructor: ixdoming Credits: 3 Meeting: MW 1:30PM-2:45PM	Course Details are displayed  Name: CSC 216 Section: 002 Title: Software Development Fundamentals Instructor: ixdoming Credits: 3 Meeting: MW 1:30PM-2:45PM

	<ul><li>4. Check results</li><li>5. Click <b>OK</b></li><li>6. Close GUI</li></ul>	A pop-up dialog stating "You are already enrolled in CSC216" is displayed.	A pop-up dialog stating "You are already enrolled in CSC216" is displayed.
Test 14: Add Event (new)	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  2. Click Add Event  3. Check results  4. 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 (new)	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  2. Click Add Event		A pop-up dialog stating "You have already created an event called Lunch" is displayed.

	<ul><li>3. Check results</li><li>4. Click <b>OK</b></li><li>5. Close GUI</li></ul>	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 (updated)	<ol> <li>Preconditions: Test 2 has passed</li> <li>Select the 6th row of the Course Catalog table (CSC 216, 601, Software Development Fundamentals, Arranged)</li> <li>Click Add Course</li> <li>Select the 10th row of the Course Catalog table (CSC 217, 601, Software Development Fundamental Lab, Arranged)</li> <li>Click Add Course</li> <li>Select the 2nd row of the Course Catalog table (CSC 116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM)</li> <li>Click Add Course</li> </ol>	<ul> <li>My Schedule displays:</li> <li>CSC 216, 601, Software Development Fundamentals, Arranged</li> <li>CSC 217, 601, Software Development Fundamentals Lab, Arranged</li> <li>CSC 116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM</li> <li>CSC 230, 001, C and Software Tools, MW 11:45AM-1:00PM</li> <li>"", "", Exercise, UMTHF 8:00AM-9:00AM</li> <li>CSC 226, 001, Discrete Mathematics for Computer Scientists, MWF</li> </ul>	<ul> <li>My Schedule displays:</li> <li>CSC 216, 601, Software Development Fundamentals, Arranged</li> <li>CSC 217, 601, Software Development Fundamentals Lab, Arranged</li> <li>CSC 116, 002, Intro to Programming - Java, MW 11:20AM-1:10PM</li> <li>CSC 230, 001, C and Software Tools, MW 11:45AM-1:00PM</li> <li>"", "", Exercise, UMTHF 8:00AM-9:00AM</li> <li>CSC 226, 001, Discrete Mathematics for Computer Scientists, MWF</li> </ul>

7	<ul> <li>Select the 12th row of the Course Catalog table (CSC 230, 001, C and Software Tools, MW 11:45AM-1:00PM)</li> </ul>	9:35AM-10:25AM  • "", "", Lunch, MTWHF,  11:45AM-1:00PM	9:35AM-10:25AM  • "", "", Lunch, MTWHF,  11:45AM-1:00PM
8	3. Click Add Course		
9	<ul> <li>Enter the following in the Add Event section:</li> <li>Event Title: Exercise</li> <li>Meeting Days: Sun, Mon, Tue, Thu, Fri</li> <li>Event Start Time: 8:00AM</li> <li>Event End Time: 9:00AM</li> <li>Details: Cardio days</li> </ul>		
1	0. Click <b>Add Event</b>		
1	Select the 11th row of the Course Catalog table (CSC 226, 001, Discrete Mathematics for Computer Scientists)		
1:	2. Click Add Course		
1	<ul> <li>3. Enter the following in the Add Event section:</li> <li>Event Title: Lunch</li> <li>Meeting Days: Mon, Tue, Wed, Thu, Fri</li> <li>Event Start Time: 11:45AM</li> <li>Event End Time: 1:00PM</li> <li>Details:</li> </ul>		
1	4. Click Add Event		
1	5. Check results		

	16. Close GUI		
Test 9: Remove (updated)	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  Check results	My Schedule displays:  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  "", "", Lunch, MTWHF, 11:45AM-1:00PM	My Schedule displays:  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  "", "", Lunch, MTWHF, 11:45AM-1:00PM  My Schedule displays: CSC 216, 601,
	Select the 6th row of the My Schedule table (Lunch)  Click Remove Activity	My Schedule displays:	Software Development Fundamentals, Arranged  CSC 217, 601,
	Check results Close GUI	<ul> <li>CSC 217, 601, Software         Development         Fundamentals Lab,         Arranged</li> <li>CSC 230, 001, C and         Software Tools, MW</li> </ul>	Software Development Fundamentals Lab, Arranged  CSC 230, 001, C and Software Tools, MW 11:45AM-1:00PM

		11:45AM-1:00PM  • "", "", Exercise, UMTHF 8:00AM-9:00AM  • CSC 226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM	<ul> <li>"", "", Exercise, UMTHF 8:00AM-9:00AM</li> <li>CSC 226, 001, Discrete Mathematics for Computer Scientists, MWF 9:35AM-10:25AM</li> </ul>
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 (updated)	Preconditions: Test 2 and Tests 8-10 have passed  Click <b>Display Final Schedule</b> Check results  Close GUI	Schedule Title: "My Super Awesome Schedule"  Schedule Table  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	Schedule Title: "My Super Awesome Schedule"  Schedule Table  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, "", "", UMTHF 8:00AM-9:00AM, Cardio days  CSC 226, 001, Discrete Mathematics for Computer Scientists, 3, tmbarnes, MWF 9:35AM-10:25AM, ""	11:45AM-1:00PM, ""  "", "", Exercise, "", "", UMTHF 8:00AM-9:00AM, Cardio days  CSC 226, 001, Discrete Mathematics for Computer Scientists, 3, tmbarnes, MWF 9:35AM-10:25AM, "
Test 12: Export	Preconditions: Test 2 and Tests 8-11 have passed  Click Export Schedule	In Eclipse, right click on the WolfScheduler project and select <b>Refresh</b> .	Content of acual_schedule.txt in test-files is
(updated)	Select test-files folder. Enter the filename actual_schedule.txt  Click Save (it's ok to overwrite old results)  Check results  Close GUI	Open the test-files folder and open actual_schedule.txt in the editor.  The contents should be: CSC 216, Software Development Fundamentals, 601, 3, jct etter, A CSC 217, Software Development Fundamentals Lab, 601, 1, sesmith 5, A CSC 230, C and Software Tools, 001, 3, dbsturgi, M W, 1145, 1300 Exercise, UMTHF, 800, 900 , Cardio days CSC 226, Discrete	CSC 216, Software Development Fundamentals, 601, 3, jct etter, A CSC 217, Software Development Fundamentals Lab, 601, 1, sesmith5, A CSC 230, C and Software Tools, 001, 3, dbsturgi, M W, 1145, 1300 Exercise, UMTHF, 800, 900 , Cardio days CSC 226, Discrete Mathematics for Computer Scientists, 001, 3, tmbar nes, MWF, 935, 1025

		Mathematics for Computer Scientists,001,3,tmbar nes,MWF,935,1025	
Test 13: Revise (updated)	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  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.	The Scheduler view is shown with  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.