## Lab 08: Black Box Test Plan

## **Test Overview**

To run the tests:

- 1. Right click on PackSchedulerGUI class in the Package Explorer.
- 2. Select Run As > Java Application

All tests files should be located in the test-files/ folder.

A registrar properties file contains a username and password. Use the values in your registrar properties for testing. We will use registrar properties id or registrar properties pw to designate those strings.

If you run all tests independently, you can close the GUI between each test. However, the tests are structured so that they may be run in order without shutting down the GUI.

Test ID	Description	Expected Results	Actual Results
T1: Invalid Login	Preconditions: PackSchedulerGUI has loaded  User ID: Iberg Password: pw Click Login  Click OK  Click Clear	Pop up with message "User doesn't exist."  User ID and password text fields are cleared.	The PackSchedulerGUI opens up  After entering the credentials UserID: Iberg Password: pw Clicking on login gives a pop message saying"User doesn't exist" is shown

T2: Registrar Login	Preconditions: PackSchedulerGUI has loaded  User ID: registrar.properties.id  Password: registrar.properties.pw  Click Login	View switches to Registrar panel with Student Directory functionality displayed	After T1 is passed Enter user credentials User ID: jdoe Password: passw0rd  Clicking on login switches to the registrar panel with Student Directory functionality
T3: Load Student Directory	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2)  Click Load Student Directory Select test-files/student_records.txt Click Select	10 students are listed in alphabetical order by last name. The list starts with Demetrius Austin and ends with Griffith Stone.	After T2 is passed  Clicking on Load Student Directory and selecting student_records.txt from the test-files folder.  Loads a list of 10 students in alphabetical order by the last name. The list starts with Demetrius Austin and ends with Griffith Stone.
T4: Add Invalid Student - no first name	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section:  • First Name: • Last Name: Wilkins • ID: pwilkins		After T2 and T3 are passing  Enter the following in the Student Information section: First Name: Last Name: Wilkins ID: pwilkins Email: pwilkins@ncsu.edu

	<ul> <li>Email: pwilkins@ncsu.edu</li> <li>Password: pw</li> <li>Repeat Password: pw</li> <li>Max Credits: 15</li> <li>Click Add Student</li> </ul> Click OK	Error Message: Invalid first name	Password: pw Repeat Password: pw Max Credits: 15 Clicking on Add Student Shows an error message saying Invalid first name
T5: Add Invalid Student - no last name	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section:  • First Name: Patience • Last Name: • ID: pwilkins • Email: pwilkins@ncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 15 Click Add Student  Click OK	Error Message: Invalid last name	After T2 and T3 are passing  Enter the following in the Student Information section:  • First Name: Patience  • Last Name:  • ID: pwilkins  • Email: pwilkins@ncsu.edu  • Password: pw  • Repeat Password: pw  • Max Credits: 15  Clicking on Add Student  Shows an error message saying "Invalid last name"
T6: Add Invalid Student - no id	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section:  • First Name: Patience • Last Name: Wilkins • ID:		After T2 and T3 are passing  Enter the following in the Student Information section:  • First Name: Patience  • Last Name: Wilkins  • ID:  • Email:

	<ul> <li>Email: pwilkins@ncsu.edu</li> <li>Password: pw</li> <li>Repeat Password: pw</li> <li>Max Credits: 15</li> <li>Click Add Student</li> </ul> Click OK	Error Message: Invalid id	pwilkins@ncsu.edu     Password: pw     Repeat Password: pw     Max Credits: 15 Clicking on Add Student Shows an error message saying "Invalid id"
T7: Add Invalid Student - no email	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section:  • First Name: Patience • Last Name: Wilkins • ID: pwilkins • Email: • Password: pw • Repeat Password: pw • Max Credits: 15 Click Add Student  Click OK	Error Message: Invalid email	After T2 and T3 are passing  Enter the following in the Student Information section:  • First Name: Patience  • Last Name: Wilkins  • ID: pwilkins  • Email:  • Password: pw  • Repeat Password: pw  • Max Credits: 15  Clicking on Add Student  Shows an error message saying "Invalid email"
T8: Add Invalid Student - invalid email	PPreconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section:  • First Name: Patience • Last Name: Wilkins • ID: pwilkins • Email: pwilkinsncsu.edu		After T2 and T3 are passing  Enter the following in the Student Information section:  • First Name: Patience  • Last Name: Wilkins  • ID: pwilkins  • Email: pwilkinsncsu.edu

	<ul> <li>Password: pw</li> <li>Repeat Password: pw</li> <li>Max Credits: 15</li> <li>Click Add Student</li> <li>Click OK</li> </ul>	Error Message: Invalid email	<ul> <li>Password: pw</li> <li>Repeat Password: pw</li> <li>Max Credits: 15</li> <li>Clicking on Add Student</li> </ul> Shows an error message saying "Invalid email"
T9: Add Invalid Student - password s don't match	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section:  • First Name: Patience • Last Name: Wilkins • ID: pwilkins • Email: pwilkins@ncsu.edu • Password: pw1 • Repeat Password: pw • Max Credits: 15 Click Add Student  Click OK	Error Message: Passwords do not match	After T2 and T3 are passing  Enter the following in the Student Information section:  • First Name: Patience  • Last Name: Wilkins  • ID: pwilkins  • Email: pwilkins@ncsu.edu  • Password: pw1  • Repeat Password: pw  • Max Credits: 15  Clicking on Add Student  Shows an error message saying "Invalid password"
T10: Add Invalid Student - zero max credits	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section:  • First Name: Patience • Last Name: Wilkins • ID: pwilkins • Email: pwilkins@ncsu.edu		After T2 and T3 are passing  Enter the following in the Student Information section:  • First Name: Patience  • Last Name: Wilkins  • ID: pwilkins  • Email: pwilkins@ncsu.edu

	<ul> <li>Password: pw</li> <li>Repeat Password: pw</li> <li>Max Credits: 0</li> <li>Click Add Student</li> <li>Click OK</li> </ul>	User is added with max credits of 18. User is the last student in the list.	<ul> <li>Password: pw</li> <li>Repeat Password: pw</li> <li>Max Credits: 0</li> <li>Clicking on Add Student</li> <li>Student is added with mx credits of 18</li> </ul>
T11: Add Invalid Student - 11 max credits	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section:  • First Name: Patrick • Last Name: Wilkins • ID: pwilkins2 • Email: pwilkins2@ncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 19 Click Add Student  Click OK	User is added with max credits of 18. User is the last student in the list.	After T2 and T3 are passing  Enter the following in the Student Information section:  • First Name: Patience  • Last Name: Wilkins  • ID: pwilkins  • Email: pwilkins@ncsu.edu  • Password: pw  • Repeat Password: pw  • Max Credits: 19  Clicking on Add Student  Student is added with mx credits of 18
T13: Add Student - middle	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section:  • First Name: Rylee  • Last Name: Puckett  • ID: rpuckett  • Email: rpuckett@ncsu.edu		After T2 and T3 are passing  Enter the following in the Student Information section:  • First Name: Rylee  • Last Name: Puckett  • ID: rpuckett  • Email: rpuckett@ncsu.edu

	<ul> <li>Password: pw</li> <li>Repeat Password: pw</li> <li>Max Credits: 15</li> <li>Click Add Student</li> <li>Click OK</li> </ul>	Rylee Puckett is added to the Student Directory between Dylan Nolan and Cassandra Schwartz	<ul> <li>Password: pw</li> <li>Repeat Password: pw</li> <li>Max Credits: 15</li> <li>Clicking on Add Student</li> <li>Rylee Puckett is added to</li> <li>the Student Directory</li> <li>between Dylan Nolan and</li> <li>Cassandra Schwartz</li> </ul>
T14: Add Student - front	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section:  • First Name: Melvin  • Last Name: Acevedo  • ID: macevedo  • Email: macevedo@ncsu.edu  • Password: pw  • Repeat Password: pw  • Max Credits: 15  Click Add Student  Click OK	Melvin Acevedo is added to the Student Directory and is the first student in the list.	After T2 and T3 are passing  Enter the following in the Student Information section:  • First Name: Melvin  • Last Name: Acevedo  • ID: macevedo  • Email:  macevedo@ncsu.edu  • Password: pw  • Repeat Password: pw  • Max Credits: 15  Clicking on Add Student Melvin Acevedo is added to the Student Directory and is the first student in the list.
T15: Remove Student - no selection	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).  Click Remove Student	Error Message: No student selected	After T2 is passing  Clicked on Remove student  The given error message is "No student selected."

T16: Remove Student - middle	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).  Select Shannon Hansen  Click Remove student	Shannon Hansen is removed. Athea Hicks follows Emerald Frost in the list	After T2 is passing Selected Shannon Hansen Clicked on Remove student Shannon Hansen is removed. Athea Hicks follows Emerald Frost in the list
T17: Remove Student - front	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T14 has run.  Select Melvin Acevedo  Click Remove student	Melvin Acevedo is removed. Demetrius Austin is front of the directory	After T2 and T14 are passing Selected Melvin Acevedo Clicked on Remove student Melvin Acevedo is removed. Demetrius Austin is front of the directory
T18: Remove Student - back	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12 has run.  Select Patience Wilkins  Click Remove student  Select Patrick Wilkins  Click Remove student	Patience Wilkins is removed. Patrick Wilkins remains as the last in the directory  Patrick Wilkins is removed. Griffith Stone is the last student in the directory.	After T2 and T12 are passing Selected Patience Wilkins Clicked on Remove student Patience Wilkins is removed. Griffith Stone is last in the directory
T19: Save	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12-T18 have run.	Contents should be (note that the password hash may be	Contents in t19_student_directory.txt.

Student		different due to encoding):	
Student Directory	Click Save Student Directory  Select test-files directory and name the file t19_student_directory.txt.	different due to encoding):  Demetrius, Austin, daustin, Cura bitur. egestas. nunc@placerator cilacus. co. uk, 0ÉRú±"ÃùuŸ¦Ù\7 X²F′þâ9•{-OîFâapÄ, 18 Lane, Berg, Iberg, sociis@non.or g, 0ÉRú±"ÃùuŸ¦Ù\7X²F′pâ9•{-OîFâapÄ, 14 Raymond, Brennan, rbrennan, lit ora. torquent@pellentesquema ssalobortis. ca, 0ÉRú±"ÃùuŸ¦Ù\7X²F′pâ9•{-OîFâapÄ, 12 Emerald, Frost, efrost, adipiscing @acipsumPhasellus. edu, 0ÉRú±"ÃùuŸ¦Ù\7X²F′pâ9•{-OîFâapÄ, 3 Althea, Hicks, ahicks, Phasellus. dapibus@luctusfelis.com, 0ÉRú±"ÃùuŸ¦Ù\7X²F′pâ9•{-OîFâapÄ, 11 Zahir, King, zking, orci. Donec@a metmassaQuisque.com, 0ÉRú±"ÃùuŸ¦Ù\7X²F′pâ9•{-OîFâapÄ, 15 Dylan, Nolan, dnolan, placerat. C ras. dictum@dictum.net, 0ÉRú±"ÃùuŸ¦Ù\7X²F′pâ9•{-OîFâapÄ, 5 Rylee, Puckett, rpuckett, rpuckett @ncsu.edu, 0ÉRú±"ÂùuŸ¦Ù\7X²F′pâ9•{-OîFâapÄ, 15 Cassandra, Schwartz, cschwart	Demetrius, Austin, daustin, Cura bitur.egestas.nunc@placerator cilacus.co.uk, MMIS+rEiw/I1nwK m2Vw3WLJGtP7iOZV7LU/uRuJ hcMQ=,18 Lane, Berg, Iberg, sociis@non.or g, MMIS+rEiw/I1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,14 Raymond, Brennan, rbrennan, Iit ora.torquent@pellentesquemas salobortis.ca, MMIS+rEiw/I1nwK m2Vw3WLJGtP7iOZV7LU/uRuJ hcMQ=,12 Emerald, Frost, efrost, adipiscing @acipsumPhasellus.edu, MMIS+rEiw/I1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,3 Althea, Hicks, ahicks, Phasellus. dapibus@luctusfelis.com, MMIS+rEiw/I1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,11 Zahir, King, zking, orci. Donec@ametmassaQuisque.com, MMIS+rEiw/I1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,15 Dylan, Nolan, dnolan, placerat. Cras. dictum@dictum.net, MMIS+rEiw/I1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,5 Rylee, Puckett, rpuckett, rpuckett@ncsu.edu, MMIS+rEiw/I1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,5 Rylee, Puckett, rpuckett, rpuckett@ncsu.edu, MMIS+rEiw/I1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,18 Cassandra, Schwartz, cschwartz, semper@imperdietornare.co.uk, MMIS+rEiw/I1nwKm2Vw3WLJ

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T20: New Student Directory	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12-T18 have run.  Click New Student Directory	An empty student directory is shown.	An empty student directory is shown.
T21: Add Student - first	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T20 has run.  Enter the following in the Student Information section:  • First Name: Patience • Last Name: Wilkins • ID: pwilkins • Email: pwilkins@ncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 15 Click Add Student  Click OK	Patience Wilkins is added to the Student Directory and is the only student in the list.	Patience Wilkins is added to the Student Directory and is the only student in the list.
T22: Course Catalog view	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).  Click Course Catalog	Course Catalog functionality	Course Catalog functionality displayed

		displayed	
T23: Load Course Catalog	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2)  Click Load Course Catalog Select test-files/course_records.txt Click Select	13 courses are listed starting with CSC116-001 and ending with CSC316-001	13 courses are listed starting with CSC 116-001 and ending with CSC 316-001 as provided in the course_records.txt file
T24: Add Invalid Course - no name	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section:	Error Message: Invalid course name	After T23 is passing Entered the following in the Course Information section:

T25: Add Invalid Course - no title	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section:	Error Message: Invalid course title	After T23 is passing Entered the following in the Course Information section:
T26: Add Invalid Course - no section	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section:  • Course Name: CSC236 • Course Title: Computer Organization and Assembly Language • Course Section: • Credits: 3 • Instructor Id: freeh • Enrollment Cap: 10		After T23 is passing Entered the following in the Course Information section:

	<ul> <li>Start Time: 10:15 AM</li> <li>End Time: 11:30 AM</li> <li>Meeting Days: Tuesday &amp; Thursday</li> <li>Click Add Course</li> <li>Click OK</li> </ul>	Error Message: Invalid section number	Enrollment Cap: 10     Start Time: 10:15 AM     End Time: 11:30 AM     Meeting Days:     Tuesday & Thursday Clicked on Add Course  Clicked OK  This gave an error message "Invalid section number."
T27: Add Invalid Course - section too short	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section:	Error Message: Invalid section number	After T23 is passing Entered the following in the Course Information section:

			This gave an error message "Invalid section number."
T28: Add Invalid Course - section too long	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section:  • Course Name: CSC236 • Course Title: Computer Organization and Assembly Language • Course Section: 01 • Credits: 3 • Instructor Id: freeh • Enrollment Cap: 10 • Start Time: 10:15 AM • End Time: 11:30 AM • Meeting Days: Tuesday & Thursday Click Add Course  Click OK	Error Message: Invalid section number	After T23 is passing Entered the following in the Course Information section:
T29: Add Invalid Course - no instructor id	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section:  • Course Name: CSC236 • Course Title: Computer Organization and		After T23 is passing Entered the following in the Course Information section:

	Assembly Language  Course Section: 001  Credits: 3  Instructor Id: Enrollment Cap: 10 Start Time: 10:15 AM End Time: 11:30 AM Meeting Days: Tuesday & Thursday Click Add Course  Click OK	Error Message: Invalid instructor unity id	Organization and Assembly Language Course Section: 001 Credits: 3 Instructor Id: Enrollment Cap: 10 Start Time: 10:15 AM End Time: 11:30 AM Meeting Days: Tuesday & Thursday Clicked on Add Course Clicked OK This gave an error message "Invalid instructor id."
T30: Add Invalid Course - end time after start time	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section:	Error Message: Invalid meeting times	After T23 is passing Entered the following in the Course Information section:

	Click <b>OK</b>		Tuesday & Thursday Clicked on Add Course Clicked OK This gave an error message "Invalid meeting days and times."
T31: Add Invalid Course - no meeting days	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section:  • Course Name: CSC236 • Course Title: Computer Organization and Assembly Language • Course Section: 001 • Credits: 3 • Instructor Id: freeh • Enrollment Cap: 10 • Start Time: 10:15 AM • End Time: 11:30 AM • Meeting Days: Click Add Course  Click OK	Error Message: Invalid meeting days	After T23 is passing Entered the following in the Course Information section:

T32: Add Course - end	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section:	CSC236-001 is added to the list at the end following CSC230-001	After T23 is passing Entered the following in the Course Information section:
T33: Add Course - front	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section:  • Course Name: CSC113 • Course Title: MATLAB • Course Section: 001 • Credits: 3		Course Information section:  Course Name: CSC 113  Course Title: Introduction to Computer - MATLAB Course Section: 001 Credits: 3 Instructor Id: tbdimitr

	<ul> <li>Instructor Id: tbdimitr</li> <li>Enrollment Cap: 250</li> <li>Start Time: 3:00 PM</li> <li>End Time: 3:50 PM</li> <li>Meeting Days: Monday &amp; Wednesday</li> <li>Click Add Course</li> </ul> Click OK	CSC113-001 is added to the list at the front and is followed by CSC116-001.	<ul> <li>Enrollment Cap: 250</li> <li>Start Time: 3:00 PM</li> <li>End Time: 3:50 PM</li> <li>Meeting Days:         <ul> <li>Monday &amp;</li> <li>Wednesday</li> <li>Clicked on Add</li> <li>Course</li> <li>Click OK</li> <li>CSC 113-001 is added to the list at the front and is followed by</li> <li>CSC 116-001.</li> </ul> </li> </ul>
T34: Add Course - middle	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section:  • Course Name: CSC116 • Course Title: Introduction to Programming - Java • Course Section: 006 • Credits: 3 • Instructor Id: jdyoung2 • Enrollment Cap: 33 • Start Time: 10:40 AM • End Time: 12:30 PM • Meeting Days: Tuesday & Thursday Click Add Course  Click OK	CSC116-006 is added to the list between CSC116-003 and CSC216-001.	After T23 is passing Entered the following in the Course Information section:

			Clicked OK CSC 116-006 is added to the list between C
T35: Remove Course -	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).  Click Remove Course	Error Message: No course	Error Message: No course selected.
selection	Chek Remove Oddise	selected	
T36: Remove Course - middle	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).  Select CSC216-001		CSC 216-001 is removed. CSC 116-006 is followed by CSC 216-002.
	Click Remove Course	CSC216-001 is removed. CSC116-006 is followed by CSC216-002.	
T37: Remove Course - front	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T33 has run.  Select CSC113-001		CSC 113-001 is removed. CSC 116-001 is the first course in the catalog
	Click Remove Course	CSC113-001 is removed. CSC116-001 is the first course in the catalog	
T38: Remove Course -	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T32 has run.		CSC 236-001 is removed. CSC 316-001 is the last course in the catalog
back	Select CSC236-001		

	Click Remove Course	CSC236-001 is removed. CSC316-001 is the last course in the catalog	
T39: Save Course Catalog	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T32-T38 have run.  Click Save Course Catalog  Select test-files directory and name the file t39_course_catalog.txt.	Contents should be:  CSC116,Intro to Programming - Java,001,3,jdyoung2,10,MW,9 10,1100 CSC116,Intro to Programming - Java,002,3,spbalik,10,MW,112 0,1310 CSC116,Intro to Programming - Java,003,3,tbdimitr,10,TH,1120 ,1310 CSC116,Introduction to Programming - Java,006,3,jdyoung2,33,TH,10 40,1230 CSC216,Software Development Fundamentals,001,3,sesmith5, 10,TH,1330,1445 CSC216,Software Development Fundamentals,002,3,ixdoming, 10,MW,1330,1445 CSC216,Software Development Fundamentals,002,3,ixdoming, 10,MW,1330,1445 CSC216,Software Development Fundamentals,601,3,jctetter,10	The t39_course_catalog.txt in the test-files directory contains the following:  CSC 116,Intro to Programming - Java,001,3,jdyoung2,MW,910,11 00  CSC 116,Intro to Programming - Java,002,3,spbalik,MW,1120,131 0  CSC 116,Intro to Programming - Java,003,3,tbdimitr,TH,1120,131 0  CSC 116,Intro to Programming - Java,006,3,jdyoung2,TH,1040,1 230  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,1040,123 0  CSC 217,Software Development Fundamentals  Lab,211,1,sesmith5,T,830,1020  CSC 217,Software Development Fundamentals  Lab,223,1,sesmith5,W,1500,165 0  CSC 217,Software Development

		,A CSC217,Software Development Fundamentals Lab,202,1,sesmith5,10,M,1040 ,1230 CSC217,Software Development Fundamentals Lab,211,1,sesmith5,10,T,830,1 020 CSC217,Software Development Fundamentals Lab,223,1,sesmith5,10,W,1500 ,1650 CSC217,Software Development Fundamentals Lab,223,1,sesmith5,10,W,1500 ,1650 CSC217,Software Development Fundamentals Lab,601,1,sesmith5,10,A CSC226,Discrete Mathematics for Computer Scientists,001,3,tmbarnes,10, MWF,935,1025 CSC230,C and Software Tools,001,3,dbsturgi,10,MW,11 45,1300 CSC316,Data Structures and Algorithms,001,3,jtking,10,MW, 830,945	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,1145,1 300 CSC 316,Data Structures and Algorithms,001,3,jtking,MW,830 ,945
T40: New Course Catalog	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12-T18 have run.  Click <b>New Course Catalog</b>	An empty course catalog is shown.	An empty course catalog is shown after clicking New Course Catalog
T41: Add	Preconditions: PackSchedulerGUI has loaded and		After T20 is passing

Course - first	registrar user is logged in (T2). T20 has run.  Enter the following in the Course Information section:  • Course Name: CSC216 • Course Title: Programming Concepts - Java • Course Section: 601 • Credits: 4 • Instructor Id: jep • Start Time: • End Time: • Meeting Days: Arranged Click Add Course  Click OK	CSC216-601 is added to the list	Adding the following course details:  Course Name: CSC 216 Course Title: Programming Concepts - Java Course Section: 601 Credits: 4 Instructor Id: jep Start Time: End Time: Meeting Days: Arranged Clicked Add Course  Clicked OK CSC 216-601 is added to the list
T42: Logout	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).  Click <b>Logout</b>	User is returned to the Login view	User is returned to the Login view
T42: Login Student	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T21 has run  User ID: pwilkins Password: pw  Click: Login	pwilkins is logged in and is	User is returned to the Login view  pwilkins is logged in and is switched to the user view.

	switched to the user view. The user can see the course catalog and register for courses.	All that is shown is a Logout button.
	You'll need to create your own system tests for this functionality!	