

# Lab 05: Black Box Test Plan

## Test Overview

run the tests:

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

Tests files should be located in the test-files/ folder.

The project should have a registrar.properties file that contain values for the following properties:

first= Wolf  
last= Lee  
id= wlee  
email= wlee@ncsu.edu  
pw= 123

The values should be substituted in the tests below as appropriate for the local copy of the registrar.properties file.

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
Test 1: Invalid login	Preconditions: PackSchedulerGUI has loaded  User ID: <b>Iberg</b> Password: <b>pw</b> Click <b>Login</b>	Pop up with message "User doesn't exist."	Pop up with message "User doesn't exist."  User ID and password text fields are cleared.

	Click <b>OK</b>  Click <b>Clear</b>	User ID and password text fields are cleared.	
: registrar login	Preconditions: PackSchedulerGUI has loaded  User ID: <b>registrar.properties.id</b> Password: <b>registrar.properties.pw</b> Click <b>Login</b>	View switches to Registrar panel with Student Directory functionality displayed	View switches to Registrar panel with Student Directory functionality displayed
: Load student directory	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2)  Click <b>Load Student Directory</b> Select <b>test-files/student_records.txt</b> Click <b>Select</b>	10 students are listed in alphabetical order by last name. The list starts with Demetrius Austin and ends with Griffith Stone.	10 students are listed in alphabetical order by last name. The list starts with Demetrius Austin and ends with Griffith Stone.
: Add valid student - first name	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section: <ul style="list-style-type: none"> <li>• First Name:</li> <li>• Last Name: <b>Wilkins</b></li> <li>• ID: <b>pwilkins</b></li> <li>• Email: <b>pwilkins@ncsu.edu</b></li> <li>• Password: <b>pw</b></li> <li>• Repeat Password: <b>pw</b></li> <li>• Max Credits: <b>15</b></li> </ul>		Error Message: Invalid first name

	Click <b>Add Student</b>  Click <b>OK</b>	Error Message: Invalid first name	
: Add valid udent - last me	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section: <ul style="list-style-type: none"> <li>• First Name: <b>Patience</b></li> <li>• Last Name:</li> <li>• ID: <b>pwilkins</b></li> <li>• Email: <b>pwilkins@ncsu.edu</b></li> <li>• Password: <b>pw</b></li> <li>• Repeat Password: <b>pw</b></li> <li>• Max Credits: <b>15</b></li> </ul> Click <b>Add Student</b>  Click <b>OK</b>	Error Message: Invalid last name	
: Add valid udent - id	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section: <ul style="list-style-type: none"> <li>• First Name: <b>Patience</b></li> <li>• Last Name: <b>Wilkins</b></li> <li>• ID:</li> <li>• Email: <b>pwilkins@ncsu.edu</b></li> <li>• Password: <b>pw</b></li> <li>• Repeat Password: <b>pw</b></li> <li>• Max Credits: <b>15</b></li> </ul> Click <b>Add Student</b>  Click <b>OK</b>	Error Message: Invalid id	

: Add valid udent - email	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.</p> <p>Enter the following in the Student Information section:</p> <ul style="list-style-type: none"> <li>• First Name: <b>Patience</b></li> <li>• Last Name: <b>Wilkins</b></li> <li>• ID: <b>pwilkins</b></li> <li>• Email:</li> <li>• Password: <b>pw</b></li> <li>• Repeat Password: <b>pw</b></li> <li>• Max Credits: <b>15</b></li> </ul> <p>Click <b>Add Student</b></p> <p>Click <b>OK</b></p>	Error Message: Invalid email	Error Message: Invalid email
: Add valid udent - valid mail	<p>PPreconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.</p> <p>Enter the following in the Student Information section:</p> <ul style="list-style-type: none"> <li>• First Name: <b>Patience</b></li> <li>• Last Name: <b>Wilkins</b></li> <li>• ID: <b>pwilkins</b></li> <li>• Email: <b>pwilkinsncsu.edu</b></li> <li>• Password: <b>pw</b></li> <li>• Repeat Password: <b>pw</b></li> <li>• Max Credits: <b>15</b></li> </ul> <p>Click <b>Add Student</b></p> <p>Click <b>OK</b></p>	Error Message: Invalid email	Error Message: Invalid email
: Add valid udent - ssword	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.</p> <p>Enter the following in the Student Information</p>		Error Message: Passwords do not match

don't atch	section: <ul style="list-style-type: none"> <li>• First Name: <b>Patience</b></li> <li>• Last Name: <b>Wilkins</b></li> <li>• ID: <b>pwilkins</b></li> <li>• Email: <b>pwilkins@ncsu.edu</b></li> <li>• Password: <b>pw1</b></li> <li>• Repeat Password: <b>pw</b></li> <li>• Max Credits: <b>15</b></li> </ul> Click <b>Add Student</b>  Click <b>OK</b>	Error Message: Passwords do not match	
0: Add valid udent - ro max redits	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section: <ul style="list-style-type: none"> <li>• First Name: <b>Patience</b></li> <li>• Last Name: <b>Wilkins</b></li> <li>• ID: <b>pwilkins</b></li> <li>• Email: <b>pwilkins@ncsu.edu</b></li> <li>• Password: <b>pw</b></li> <li>• Repeat Password: <b>pw</b></li> <li>• Max Credits: <b>0</b></li> </ul> Click <b>Add Student</b>  Click <b>OK</b>	Error Message: Invalid max credits	
1: Add valid udent - max redits	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section: <ul style="list-style-type: none"> <li>• First Name: <b>Patience</b></li> <li>• Last Name: <b>Wilkins</b></li> <li>• ID: <b>pwilkins</b></li> </ul>		Error Message: Invalid max credits

	<ul style="list-style-type: none"> <li>Email: <b>pwilkins@ncsu.edu</b></li> <li>Password: <b>pw</b></li> <li>Repeat Password: <b>pw</b></li> <li>Max Credits: <b>19</b></li> </ul> <p>Click <b>Add Student</b></p> <p>Click <b>OK</b></p>	Error Message: Invalid max credits	
2: Add student - d	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.</p> <p>Enter the following in the Student Information section:</p> <ul style="list-style-type: none"> <li>First Name: <b>Patience</b></li> <li>Last Name: <b>Wilkins</b></li> <li>ID: <b>pwilkins</b></li> <li>Email: <b>pwilkins@ncsu.edu</b></li> <li>Password: <b>pw</b></li> <li>Repeat Password: <b>pw</b></li> <li>Max Credits: <b>15</b></li> </ul> <p>Click <b>Add Student</b></p> <p>Click <b>OK</b></p>	Patience Wilkins is added to the Student Directory and is the last student in the list.	
3: Add student - ddle	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.</p> <p>Enter the following in the Student Information section:</p> <ul style="list-style-type: none"> <li>First Name: <b>Rylee</b></li> <li>Last Name: <b>Puckett</b></li> <li>ID: <b>rpuckett</b></li> <li>Email: <b>rpuckett@ncsu.edu</b></li> <li>Password: <b>pw</b></li> <li>Repeat Password: <b>pw</b></li> <li>Max Credits: <b>15</b></li> </ul>		Rylee Puckett is added to the Student Directory between Dylan Nolan and Cassandra Schwartz

	<p>Click <b>Add Student</b></p> <p>Click <b>OK</b></p>	<p>Rylee Puckett is added to the Student Directory between Dylan Nolan and Cassandra Schwartz</p>	
4: Add student - nt	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.</p> <p>Enter the following in the Student Information section:</p> <ul style="list-style-type: none"> <li>• First Name: <b>Melvin</b></li> <li>• Last Name: <b>Acevedo</b></li> <li>• ID: <b>macevedo</b></li> <li>• Email: <b>macevedo@ncsu.edu</b></li> <li>• Password: <b>pw</b></li> <li>• Repeat Password: <b>pw</b></li> <li>• Max Credits: <b>15</b></li> </ul> <p>Click <b>Add Student</b></p> <p>Click <b>OK</b></p>	<p>Melvin Acevedo is added to the Student Directory and is the first student in the list.</p>	
5: Remove student - lection	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).</p> <p>Click <b>Remove Student</b></p>	<p>Error Message: No student selected</p>	<p>Error Message: No student selected</p>
6: Remove student - ddle	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).</p> <p>Select <b>Shannon Hansen</b></p> <p>Click <b>Remove student</b></p>	<p>Shannon Hansen is removed. Athea Hicks follows Emerald Frost in the list</p>	<p>Shannon Hansen is removed. Athea Hicks follows Emerald Frost in the list</p>

7: Remove student - nt	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T14 has run.</p> <p>Select <b>Melvin Acevedo</b></p> <p>Click <b>Remove student</b></p>	<p>Melvin Acevedo is removed. Demetrius Austin is front of the directory</p>	<p>Melvin Acevedo is removed. Demetrius Austin is front of t directory</p>
8: Remove student - ck	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12 has run.</p> <p>Select <b>Patience Wilkins</b></p> <p>Click <b>Remove student</b></p>	<p>Patience Wilkins is removed. Griffith Stone is last in the directory</p>	<p>Patience Wilkins is removed Griffith Stone is last in the directory</p>
9: Save student directory	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12-T18 have run.</p> <p>Click <b>Save Student Directory</b></p> <p>Select <b>test-files</b> directory and name the file <b>t19_student_directory.txt</b>.</p>	<p>Contents should be (note that the password hash may be different due to encoding):</p> <p>Demetrius,Austin,daustin,Cura bitur.egestas.nunc@placera cilacus.co.uk,0ÉRú±"Ãùuÿ!Û X²F´pâ9•{-OîFâapÄ,18 Lane,Berg,lberg,sociis@non g,0ÉRú±"Ãùuÿ!Û7X²F´pâ9•{- OîFâapÄ,14 Raymond,Brennan,rbrennan ora.torquent@pellentesquem ssalobortis.ca,0ÉRú±"Ãùuÿ! 7X²F´pâ9•{-OîFâapÄ,12 Emerald,Frost,efrost,adipisci @acipsumPhasellus.edu,0ÉR ±"Ãùuÿ!Û7X²F´pâ9•{- OîFâapÄ,3 Althea,Hicks,ahicks,Phasellu dapibus@luctusfelis.com,0ÉR ú±"Ãùuÿ!Û7X²F´pâ9•{-</p>	<p>Demetrius,Austin,daustin,Cu bitur.egestas.nunc@placera cilacus.co.uk,0ÉRú±"Ãùuÿ!Û X²F´pâ9•{-OîFâapÄ,18 Lane,Berg,lberg,sociis@non g,0ÉRú±"Ãùuÿ!Û7X²F´pâ9•{- OîFâapÄ,14 Raymond,Brennan,rbrennan ora.torquent@pellentesquem ssalobortis.ca,0ÉRú±"Ãùuÿ! 7X²F´pâ9•{-OîFâapÄ,12 Emerald,Frost,efrost,adipisci @acipsumPhasellus.edu,0ÉR ±"Ãùuÿ!Û7X²F´pâ9•{- OîFâapÄ,3 Althea,Hicks,ahicks,Phasellu dapibus@luctusfelis.com,0ÉR ú±"Ãùuÿ!Û7X²F´pâ9•{-</p>



		<p>OîFâapÄ,3 Althea,Hicks,ahicks,Phasellus. dapibus@luctusfelis.com,0ÉRú±"ÄùuŸ!Ü\7X²F´pâ9•{- OîFâapÄ,11 Zahir,King,zking,orci.Donec@a metmassaQuisque.com,0ÉRú± "ÄùuŸ!Ü\7X²F´pâ9•{- OîFâapÄ,15 Dylan,Nolan,dnolan,placerat.C ras.dictum@dictum.net,0ÉRú± "ÄùuŸ!Ü\7X²F´pâ9•{- OîFâapÄ,5 Rylee,Puckett,rpuckett,rpuckett @ncsu.edu,0ÉRú±"ÄùuŸ!Ü\7X ²F´pâ9•{-OîFâapÄ,15 Cassandra,Schwartz,cschwartz, semper@imperdietornare.co. uk,0ÉRú±"ÄùuŸ!Ü\7X²F´pâ9•{- OîFâapÄ,4 Griffith,Stone,gstone,porta@m agnamalesuadavel.net,0ÉRú± "ÄùuŸ!Ü\7X²F´pâ9•{- OîFâapÄ,17</p>	<p>OîFâapÄ,11 Zahir,King,zking,orci.Donec@ metmassaQuisque.com,0ÉRú± "ÄùuŸ!Ü\7X²F´pâ9•{- OîFâapÄ,15 Dylan,Nolan,dnolan,placerat. ras.dictum@dictum.net,0ÉRú± "ÄùuŸ!Ü\7X²F´pâ9•{- OîFâapÄ,5 Rylee,Puckett,rpuckett,rpuck t@ncsu.edu,0ÉRú±"ÄùuŸ!Ü\7 X²F´pâ9•{-OîFâapÄ,15 Cassandra,Schwartz,cschwartz, semper@imperdietornare.co. uk,0ÉRú±"ÄùuŸ!Ü\7X²F´pâ9 OîFâapÄ,4 Griffith,Stone,gstone,porta@ agnamalesuadavel.net,0ÉRú± "ÄùuŸ!Ü\7X²F´pâ9•{- OîFâapÄ,17</p>
0: New student directory	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12-T18 have run.</p> <p>Click <b>New Student Directory</b></p>	An empty student directory is shown.	An empty student directory is shown.
1: Add student - st	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T20 has run.</p> <p>Enter the following in the Student Information section:</p>		Patience Wilkins is added to the Student Directory and is the only student in the list.

	<ul style="list-style-type: none"> <li>• First Name: <b>Patience</b></li> <li>• Last Name: <b>Wilkins</b></li> <li>• ID: <b>pwilkins</b></li> <li>• Email: <b>pwilkins@ncsu.edu</b></li> <li>• Password: <b>pw</b></li> <li>• Repeat Password: <b>pw</b></li> <li>• Max Credits: <b>15</b></li> </ul> <p>Click <b>Add Student</b></p> <p>Click <b>OK</b></p>	Patience Wilkins is added to the Student Directory and is the only student in the list.	
2: Course Catalog View	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).</p> <p>Click <b>Course Catalog</b></p>	Course Catalog functionality displayed	Course Catalog functionality displayed
3: Load Course Catalog	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2)</p> <p>Click <b>Load Course Catalog</b></p> <p>Select <b>test-files/course_records.txt</b></p> <p>Click <b>Select</b></p>	8 courses are listed starting with CSC116-001 and ending with CSC230-001	8 courses are listed starting with CSC116-001 and ending with CSC230-001
4: Add Invalid Course - name	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.</p> <p>Enter the following in the Course Information section:</p> <ul style="list-style-type: none"> <li>• Course Name:</li> <li>• Course Title: <b>Computer Organization and Assembly Language</b></li> <li>• Course Section: <b>001</b></li> <li>• Credits: <b>3</b></li> </ul>		Error Message: Invalid course name

	<ul style="list-style-type: none"> <li>• Instructor Id: <b>lasher</b></li> <li>• Start Time: <b>10:15 AM</b></li> <li>• End Time: <b>11:30 AM</b></li> <li>• Meeting Days: <b>Tuesday &amp; Thursday</b></li> </ul> Click <b>Add Course</b>  Click <b>OK</b>	Error Message: Invalid course name	
5: Add valid course - title	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section: <ul style="list-style-type: none"> <li>• Course Name: <b>CSC236</b></li> <li>• Course Title:</li> <li>• Course Section: <b>001</b></li> <li>• Credits: <b>3</b></li> <li>• Instructor Id: <b>lasher</b></li> <li>• Start Time: <b>10:15 AM</b></li> <li>• End Time: <b>11:30 AM</b></li> <li>• Meeting Days: <b>Tuesday &amp; Thursday</b></li> </ul> Click <b>Add Course</b>  Click <b>OK</b>	Error Message: Invalid course title	
6: Add valid course - section	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section: <ul style="list-style-type: none"> <li>• Course Name: <b>CSC236</b></li> <li>• Course Title: <b>Computer Organization and Assembly Language</b></li> <li>• Course Section:</li> <li>• Credits: <b>3</b></li> <li>• Instructor Id: <b>lasher</b></li> </ul>	Error Message: Invalid section number	

	<ul style="list-style-type: none"> <li>Start Time: <b>10:15 AM</b></li> <li>End Time: <b>11:30 AM</b></li> <li>Meeting Days: <b>Tuesday &amp; Thursday</b></li> </ul> Click <b>Add Course</b>  Click <b>OK</b>	Error Message: Invalid section number	
7: Add valid 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: <ul style="list-style-type: none"> <li>Course Name: <b>CSC236</b></li> <li>Course Title: <b>Computer Organization and Assembly Language</b></li> <li>Course Section: <b>0011</b></li> <li>Credits: <b>3</b></li> <li>Instructor Id: <b>lasher</b></li> <li>Start Time: <b>10:15 AM</b></li> <li>End Time: <b>11:30 AM</b></li> <li>Meeting Days: <b>Tuesday &amp; Thursday</b></li> </ul> Click <b>Add Course</b>  Click <b>OK</b>	Error Message: Invalid section number	Error Message: Invalid section number
8: Add valid 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: <ul style="list-style-type: none"> <li>Course Name: <b>CSC236</b></li> <li>Course Title: <b>Computer Organization and Assembly Language</b></li> <li>Course Section: <b>01</b></li> <li>Credits: <b>3</b></li> <li>Instructor Id: <b>lasher</b></li> </ul>		Error Message: Invalid section number

	<ul style="list-style-type: none"> <li>Start Time: <b>10:15 AM</b></li> <li>End Time: <b>11:30 AM</b></li> <li>Meeting Days: <b>Tuesday &amp; Thursday</b></li> </ul> Click <b>Add Course</b>  Click <b>OK</b>	Error Message: Invalid section number	
9: Add valid course - instructor	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section: <ul style="list-style-type: none"> <li>Course Name: <b>CSC236</b></li> <li>Course Title: <b>Computer Organization and Assembly Language</b></li> <li>Course Section: <b>001</b></li> <li>Credits: <b>3</b></li> <li>Instructor Id:</li> <li>Start Time: <b>10:15 AM</b></li> <li>End Time: <b>11:30 AM</b></li> <li>Meeting Days: <b>Tuesday &amp; Thursday</b></li> </ul> Click <b>Add Course</b>  Click <b>OK</b>	Error Message: Invalid instructor unity id	Error Message: Invalid instructor unity id
0: Add valid course - d time er start ne	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section: <ul style="list-style-type: none"> <li>Course Name: <b>CSC236</b></li> <li>Course Title: <b>Computer Organization and Assembly Language</b></li> <li>Course Section: <b>001</b></li> <li>Credits: <b>3</b></li> <li>Instructor Id: <b>lasher</b></li> </ul>		Error Message: Invalid course times

	<ul style="list-style-type: none"> <li>Start Time: <b>11:30 AM</b></li> <li>End Time: <b>10:15 AM</b></li> <li>Meeting Days: <b>Tuesday &amp; Thursday</b></li> </ul> Click <b>Add Course</b>  Click <b>OK</b>	Error Message: Invalid course times	
1: Add valid course - Meeting days	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section: <ul style="list-style-type: none"> <li>Course Name: <b>CSC236</b></li> <li>Course Title: <b>Computer Organization and Assembly Language</b></li> <li>Course Section: <b>001</b></li> <li>Credits: <b>3</b></li> <li>Instructor Id: <b>lasher</b></li> <li>Start Time: <b>10:15 AM</b></li> <li>End Time: <b>11:30 AM</b></li> <li>Meeting Days:</li> </ul> Click <b>Add Course</b>  Click <b>OK</b>	Error Message: Invalid meeting days	
2: Add course - d	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section: <ul style="list-style-type: none"> <li>Course Name: <b>CSC236</b></li> <li>Course Title: <b>Computer Organization and Assembly Language</b></li> <li>Course Section: <b>001</b></li> <li>Credits: <b>3</b></li> <li>Instructor Id: <b>lasher</b></li> </ul>		CSC236-001 is added to the list at the end following CSC230-001

	<ul style="list-style-type: none"> <li>Start Time: <b>10:15 AM</b></li> <li>End Time: <b>11:30 AM</b></li> <li>Meeting Days: <b>Tuesday &amp; Thursday</b></li> </ul> Click <b>Add Course</b> Click <b>OK</b>	CSC236-001 is added to the list at the end following CSC230-001	
3: Add course - nt	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run. Enter the following in the Course Information section: <ul style="list-style-type: none"> <li>Course Name: <b>CSC113</b></li> <li>Course Title: <b>Introduction to Computer - MATLAB</b></li> <li>Course Section: <b>001</b></li> <li>Credits: <b>3</b></li> <li>Instructor Id: <b>tbdimitr</b></li> <li>Start Time: <b>3:00 PM</b></li> <li>End Time: <b>3:50 PM</b></li> <li>Meeting Days: <b>Monday &amp; Wednesday</b></li> </ul> Click <b>Add Course</b> Click <b>OK</b>	CSC113-001 is added to the list at the front and is followed by CSC116-001.	
4: Add course - ddle	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run. Enter the following in the Course Information section: <ul style="list-style-type: none"> <li>Course Name: <b>CSC116</b></li> <li>Course Title: <b>Introduction to Programming - Java</b></li> <li>Course Section: <b>006</b></li> <li>Credits: <b>3</b></li> <li>Instructor Id: <b>jdyoung2</b></li> </ul>		CSC116-006 is added to the list between CSC116-003 and CSC216-001.

	<ul style="list-style-type: none"> <li>Start Time: <b>10:40 AM</b></li> <li>End Time: <b>12:30 PM</b></li> <li>Meeting Days: <b>Tuesday &amp; Thursday</b></li> </ul> Click <b>Add Course</b>  Click <b>OK</b>	CSC116-006 is added to the list between CSC116-003 and CSC216-001.	
5: Remove course - Selection	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).  Click <b>Remove Course</b>	Error Message: No course selected	Error Message: No course selected
6: Remove course - Middle	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).  Select <b>CSC216-001</b>  Click <b>Remove Course</b>	CSC216-001 is removed. CSC116-006 is followed by CSC216-002.	CSC216-001 is removed. CSC116-006 is followed by CSC216-002.
7: Remove course - End	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T33 has run.  Select <b>CSC113-001</b>  Click <b>Remove Course</b>	CSC113-001 is removed. CSC116-001 is the first course in the catalog	CSC113-001 is removed. CSC116-001 is the first course in the catalog
8: Remove course - Back	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T32 has run.  Select <b>CSC236-001</b>		



	Click <b>Remove Course</b>	CSC236-001 is removed. CSC230-001 is the last course in the catalog	CSC236-001 is removed. CSC230-001 is the last course in the catalog
9: ve course atalog	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T32-T38 have run.  Click <b>Save Course Catalog</b>  Select <b>test-files</b> directory and name the file <b>t39_course_catalog.txt</b> .	Contents should be:  CSC116,Intro to Programming - Java,001,3,jdyoung2,MW,910, 1100 CSC116,Intro to Programming - Java,002,3,spbalik,MW,1120,1 310 CSC116,Intro to Programming - Java,003,3,tbdimitr,TH,1120,1 310 CSC116,Java,006,3,jdyoung2, TH,1040,1230 CSC216,Programming Concepts - Java,002,4,jtking,MW,1330,14 45 CSC216,Programming Concepts - Java,601,4,jep,A CSC226,Discrete Mathematics for Computer Scientists,001,3,tmbarnes,MW F,935,1025 CSC230,C and Software Tools,001,3,dbsturgi,MW,1145 ,1300	Contents should be:  CSC116,Intro to Programming - Java,001,3,jdyoung2,MW,910, 1100 CSC116,Intro to Programming - Java,002,3,spbalik,MW,1120, 310 CSC116,Intro to Programming - Java,003,3,tbdimitr,TH,1120, 310 CSC116,Java,006,3,jdyoung TH,1040,1230 CSC216,Programming Concepts - Java,002,4,jtking,MW,1330,1 45 CSC216,Programming Concepts - Java,601,4,jep,A CSC226,Discrete Mathemati for Computer Scientists,001,3,tmbarnes,M F,935,1025 CSC230,C and Software Tools,001,3,dbsturgi,MW,11 ,1300
0: New course	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12-T18 have run.		An empty course catalog is shown.

atalog	Click <b>New Course Catalog</b>	An empty course catalog is shown.	
1: Add course - st	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T20 has run.</p> <p>Enter the following in the Course Information section:</p> <ul style="list-style-type: none"> <li>• Course Name: <b>CSC216</b></li> <li>• Course Title: <b>Programming Concepts - Java</b></li> <li>• Course Section: <b>601</b></li> <li>• Credits: <b>4</b></li> <li>• Instructor Id: <b>jep</b></li> <li>• Start Time:</li> <li>• End Time:</li> <li>• Meeting Days: <b>Arranged</b></li> </ul> <p>Click <b>Add Course</b></p> <p>Click <b>OK</b></p>	CSC216-601 is added to the list	CSC216-601 is added to the list
2: Logout	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).</p> <p>Click <b>Logout</b></p>	User is returned to the Login view	User is returned to the Login view
2: Login student	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T21 has run</p> <p>User ID: <b>pwilkins</b> Password: <b>pw</b></p> <p>Click: <b>Login</b></p>	pwilkins is logged in and is switched to the user view. All	<b>User doesn't exist is displayed</b>

		that is shown is a Logout button.	
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