

# 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: <b>Iberg</b> Password: <b>pw</b> Click <b>Login</b>  Click <b>OK</b>  Click <b>Clear</b>	Pop up with message "User doesn't exist."     User ID and password text fields are cleared.	<b>A pop up is displayed with message "User doesn't exist."</b>     <b>User ID and password text fields were cleared.</b>

T2: Registrar Login	<p>Preconditions: PackSchedulerGUI has loaded</p> <p>User ID: <b>registrar.properties.id</b></p> <p>Password: <b>registrar.properties.pw</b></p> <p>Click <b>Login</b></p>	View switches to Registrar panel with Student Directory functionality displayed	<b>The view switches to the Registrar panel with Student Directory functionality displayed</b>
T3: Load Student Directory	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2)</p> <p>Click <b>Load Student Directory</b></p> <p>Select <b>test-files/student_records.txt</b></p> <p>Click <b>Select</b></p>	10 students are listed in alphabetical order by last name. The list starts with Demetrius Austin and ends with Griffith Stone.	<b>10 students are now listed in alphabetical order by last name. The list begins with Demetrius Austin and ends with Griffith Stone.</b>
T4: Add Invalid Student - no first name	<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:</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>		<b>An Error Message is displayed: Invalid first name</b>

	Click <b>Add Student</b>  Click <b>OK</b>	Error Message: 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: <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	<b>An Error Message is displayed: Invalid last name</b>
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: <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>	Error Message: Invalid id	<b>An Error Message is displayed: Invalid id</b>

	Click <b>OK</b>		
T7: Add Invalid Student - no 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	<b>An Error Message is displayed: Invalid email</b>
T8: Add Invalid Student - invalid email	<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	<b>An Error Message is displayed: Invalid email</b>

<p>T9: Add Invalid Student - passwords don't match</p>	<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>pw1</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>Error Message: Passwords do not match</p>	<p><b>An Error Message is displayed: Passwords do not match</b></p>
<p>T10: Add Invalid Student - zero max credits</p>	<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>0</b></li> </ul> <p>Click <b>Add Student</b></p> <p>Click <b>OK</b></p>	<p>User is added with max credits of 18. User is the last student in the list.</p>	<p><b>Patience Wilkins is successfully added to the Student Directory and is now the last student in the list. Max credits are set to 18.</b></p>
<p>T11: Add</p>	<p>Preconditions: PackSchedulerGUI has loaded and</p>		<p><b>Patience Wilkins is</b></p>

Invalid Student - 11 max credits	<p>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>Patrick</b></li> <li>• Last Name: <b>Wilkins</b></li> <li>• ID: <b>pwilkins2</b></li> <li>• Email: <b>pwilkins2@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>	User is added with max credits of 18. User is the last student in the list.	<b>successfully added to the Student Directory and is now the last student in the list. Max credits are set to 18.</b>
T13: Add Student - middle	<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> <p>Click <b>Add Student</b></p> <p>Click <b>OK</b></p>	Rylee Puckett is added to the Student Directory between Dylan Nolan and Cassandra Schwartz	<b>Rylee Puckett is successfully added to the Student Directory between Dylan Nolan and Cassandra Schwartz.</b>
T14: Add	Preconditions: PackSchedulerGUI has loaded and		<b>Melvin Acevedo is</b>

Student - front	<p>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>	<p><b>successfully added to the Student Directory and is now the first student in the list.</b></p>
T15: Remove Student - no selection	<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><b>An Error Message is displayed: No student selected</b></p>
T16: Remove Student - middle	<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><b>Athea Hicks follows Emerald Frost in the list, and Shannon Hansen is successfully removed.</b></p>
T17: Remove Student -	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T14 has run.</p>		<p><b>Melvin Acevedo is successfully removed.</b></p>

front	<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><b>Demetrius Austin is now in the front of the directory</b></p>
T18: Remove Student - back	<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>Select <b>Patrick Wilkins</b></p> <p>Click <b>Remove student</b></p>	<p>Patience Wilkins is removed. Patrick Wilkins remains as the last in the directory</p> <p>Patrick Wilkins is removed. Griffith Stone is the last student in the directory.</p>	<p><b>Patience Wilkins is successfully removed. Griffith Stone is now the last student in the directory</b></p>
T19: 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@placeratorcilacus.co.uk,0ÉRú±"ÃùuY!Ù\7X²F'pâ9•{-OîFâapÄ,18 Lane,Berg,lberg,sociis@non.org,0ÉRú±"ÃùuY!Ù\7X²F'pâ9•{-OîFâapÄ,14 Raymond,Brennan,rbrennan,lit ora.torquent@pellentesquema ssalobortis.ca,0ÉRú±"ÃùuY!Ù\7X²F'pâ9•{-OîFâapÄ,12</p>	<p><b>Contents are:</b></p> <p><b>Demetrius,Austin,daustin,Cu ratur.egestas.nunc@placer atorcilacus.co.uk,0ÉRú±"Ãù uY!Ù\7X²F'pâ9•{-OîFâapÄ,18</b></p> <p><b>Lane,Berg,lberg,sociis@non .org,0ÉRú±"ÃùuY!Ù\7X²F'pâ 9•{-OîFâapÄ,14</b></p> <p><b>Raymond,Brennan,rbrennan,</b></p>



		<p>Emerald,Frost,efrost,adipiscing@acipsumPhasellus.edu,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,3</p> <p>Althea,Hicks,ahicks,Phasellus.dapibus@luctusfelis.com,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,11</p> <p>Zahir,King,zking,orci.Donec@ametmassaQuisque.com,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,15</p> <p>Dylan,Nolan,dnolan,placerat.Cras.dictum@dictum.net,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,5</p> <p>Rylee,Puckett,rpuckett,rpuckett@ncsu.edu,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,15</p> <p>Cassandra,Schwartz,cschwartz,semper@imperdietornare.co.uk,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,4</p> <p>Griffith,Stone,gstone,porta@magnumalesuadavel.net,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,17</p>	<p><b>litora.torquent@pellentesquemassalobortis.ca,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,12</b></p> <p><b>Emerald,Frost,efrost,adipiscing@acipsumPhasellus.edu,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,3</b></p> <p><b>Althea,Hicks,ahicks,Phasellus.dapibus@luctusfelis.com,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,11</b></p> <p><b>Zahir,King,zking,orci.Donec@ametmassaQuisque.com,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,15</b></p> <p><b>Dylan,Nolan,dnolan,placerat.Cras.dictum@dictum.net,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,5</b></p> <p><b>Rylee,Puckett,rpuckett,rpuckett@ncsu.edu,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,15</b></p> <p><b>Cassandra,Schwartz,cschwartz,semper@imperdietornare</b></p>
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			.co.uk,0ÉRú±"ÃùuŸÏÛ\7X²F´þ â9•{-OîFâapÄ,4  Griffith,Stone,gstone,porta@ magnamalesuadavel.net,0É Rú±"ÃùuŸÏÛ\7X²F´þâ9•{-OîFâ apÄ,17
T20: New Student Directory	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12-T18 have run.  Click <b>New Student Directory</b>	An empty student directory is shown.	<b>A new and empty student directory is shown.</b>
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: <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> Click <b>Add Student</b>  Click <b>OK</b>	Patience Wilkins is added to the Student Directory and is the only student in the list.	<b>Patience Wilkins is successfully added to the Student Directory and is the only student in the list.</b>
T22: Course	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).		<b>Course Catalog view displayed</b>

Catalog view	Click <b>Course Catalog</b>	Course Catalog functionality displayed	
T23: Load Course Catalog	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2)</p> <p>Click <b>Load Course Catalog</b>  Select <b>test-files/course_records.txt</b>  Click <b>Select</b></p>	13 courses are listed starting with CSC116-001 and ending with CSC316-001	<b>13 courses are listed starting with CSC116-001 and ending with CSC316-001</b>
T24: Add Invalid Course - no 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> <li>• Instructor Id: <b>freeh</b></li> <li>• Enrollment Cap: <b>10</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> <p>Click <b>Add Course</b></p> <p>Click <b>OK</b></p>	Error Message: Invalid course name	<b>Error Message: Invalid course name</b>
T25: Add Invalid	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.		<b>Error Message: Invalid course title</b>

Course - no title	<p>Enter the following in the Course Information section:</p> <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>freeh</b></li> <li>• Enrollment Cap: <b>10</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> <p>Click <b>Add Course</b></p> <p>Click <b>OK</b></p>	Error Message: Invalid course title	
T26: Add Invalid Course - no section	<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: <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>freeh</b></li> <li>• Enrollment Cap: <b>10</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> <p>Click <b>Add Course</b></p>	Error Message: Invalid section number	<b>Error Message: Invalid section number</b>

	Click <b>OK</b>		
T27: Add Invalid Course - section too short	<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: <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>freeh</b></li> <li>• Enrollment Cap: <b>10</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> <p>Click <b>Add Course</b></p> <p>Click <b>OK</b></p>	Error Message: Invalid section number	<b>Error Message: Invalid section number</b>
T28: Add Invalid Course - section too long	<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: <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>freeh</b></li> <li>• Enrollment Cap: <b>10</b></li> <li>• Start Time: <b>10:15 AM</b></li> </ul>		<b>Error Message: Invalid section number</b>

	<ul style="list-style-type: none"> <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	
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: <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>• Enrollment Cap: <b>10</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 instructor unity id	<b>Error Message: Invalid instructor unity id</b>
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: <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> </ul>		<b>Error Message: Invalid meeting days and times</b>

	<ul style="list-style-type: none"> <li>• Credits: <b>3</b></li> <li>• Instructor Id: <b>freeh</b></li> <li>• Enrollment Cap: <b>10</b></li> <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> <p>Click <b>Add Course</b></p> <p>Click <b>OK</b></p>	Error Message: Invalid meeting times	
T31: Add Invalid Course - no meeting days	<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: <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>freeh</b></li> <li>• Enrollment Cap: <b>10</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> <p>Click <b>Add Course</b></p> <p>Click <b>OK</b></p>	Error Message: Invalid meeting days	<b>Error Message: Invalid meeting days and times</b>
T32: Add Course - end	<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>		<b>CSC236-001 is added to the list at the end following CSC230-001</b>

	<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>freeh</b></li> <li>• Enrollment Cap: <b>10</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> <p>Click <b>Add Course</b></p> <p>Click <b>OK</b></p>	CSC236-001 is added to the list at the end following CSC230-001	
T33: Add Course - front	<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: <b>CSC113</b></li> <li>• Course Title: <b>MATLAB</b></li> <li>• Course Section: <b>001</b></li> <li>• Credits: <b>3</b></li> <li>• Instructor Id: <b>tbdimitr</b></li> <li>• Enrollment Cap: <b>250</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> <p>Click <b>Add Course</b></p> <p>Click <b>OK</b></p>	CSC113-001 is added to the list at the front and is followed by CSC116-001.	<b>CSC113-001 is added to the list at the front and is followed by CSC116-001.</b>
T34: Add Course -	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.</p>		<b>CSC116-006 is added to the list between CSC116-003</b>



middle	<p>Enter the following in the Course Information section:</p> <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> <li>• Enrollment Cap: <b>33</b></li> <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> <p>Click <b>Add Course</b></p> <p>Click <b>OK</b></p>	CSC116-006 is added to the list between CSC116-003 and CSC216-001.	and CSC216-001.
T35: Remove Course - no selection	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).</p> <p>Click <b>Remove Course</b></p>	Error Message: No course selected	<b>Error Message: No course selected</b>
T36: Remove Course - middle	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).</p> <p>Select <b>CSC216-001</b></p> <p>Click <b>Remove Course</b></p>	CSC216-001 is removed. CSC116-006 is followed by CSC216-002.	<b>CSC216-001 is removed. CSC116-006 is followed by CSC216-002.</b>
T37: Remove	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T33 has run.</p>		<b>CSC113-001 is removed.</b>

Course - front	<p>Select <b>CSC113-001</b></p> <p>Click <b>Remove Course</b></p>	<p>CSC113-001 is removed. CSC116-001 is the first course in the catalog</p>	<p><b>CSC116-001 is the first course in the catalog</b></p>
T38: Remove Course - back	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T32 has run.</p> <p>Select <b>CSC236-001</b></p> <p>Click <b>Remove Course</b></p>	<p>CSC236-001 is removed. CSC316-001 is the last course in the catalog</p>	<p><b>CSC236-001 is removed. CSC316-001 is the last course in the catalog</b></p>
T39: Save Course Catalog	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T32-T38 have run.</p> <p>Click <b>Save Course Catalog</b></p> <p>Select <b>test-files</b> directory and name the file <b>t39_course_catalog.txt</b>.</p>	<p>Contents should be:</p> <p>CSC116,Intro to Programming - Java,001,3,jdyoung2,10,MW,910,1100 CSC116,Intro to Programming - Java,002,3,spbalik,10,MW,1120,1310 CSC116,Intro to Programming - Java,003,3,tbdimitr,10,TH,1120,1310 CSC116,Introduction to Programming - Java,006,3,jdyoung2,33,TH,1040,1230</p>	<p><b>Contents are</b></p> <p><b>CSC116,Intro to Programming - Java,001,3,jdyoung2,10,MW,910,1100 CSC116,Intro to Programming - Java,002,3,spbalik,10,MW,1120,1310 CSC116,Intro to Programming - Java,003,3,tbdimitr,10,TH,1120,1310 CSC116,Introduction to Programming - Java ,006,3,jdyoung2,33,TH,1040,1230</b></p>

		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,601,3,jctetter,10,A CSC217,Software Development Fundamentals Lab,202,1,sesmith5,10,M,1040,1230 CSC217,Software Development Fundamentals Lab,211,1,sesmith5,10,T,830,1020 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	<b>CSC216,Software Development Fundamentals,002,3,ixdoming,10,MW,1330,1445</b> <b>CSC216,Software Development Fundamentals,601,3,jctetter,10,A</b> <b>CSC217,Software Development Fundamentals Lab,202,1,sesmith5,10,M,1040,1230</b> <b>CSC217,Software Development Fundamentals Lab,211,1,sesmith5,10,T,830,1020</b> <b>CSC217,Software Development Fundamentals Lab,223,1,sesmith5,10,W,1500,1650</b> <b>CSC217,Software Development Fundamentals Lab,601,1,sesmith5,10,A</b> <b>CSC226,Discrete Mathematics for Computer Scientists,001,3,tmbarnes,10,MWF,935,1025</b> <b>CSC230,C and Software Tools,001,3,dbsturgi,10,MW,1145,1300</b> <b>CSC316,Data Structures and Algorithms,001,3,jtking,10,MW,830,945</b>
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		45,1300 CSC316,Data Structures and Algorithms,001,3,jtking,10,MW,830,945	
T40: New Course Catalog	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12-T18 have run.</p> <p>Click <b>New Course Catalog</b></p>	An empty course catalog is shown.	<b>An empty course catalog is shown.</b>
T41: Add Course - first	<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	<b>CSC216-601 is added to the list</b>
T42: 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	<b>User is returned to the Login view</b>

T42: Login Student	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T21 has run</p> <p>User ID: <b>flast</b> Password: <b>password</b></p> <p>Click: <b>Login</b></p>	<p>Flast is logged in and is switched to the user view. The user can see the course catalog and register for courses.</p> <p>You'll need to create your own system tests for this functionality!</p>	<p><b>Flast is logged in and is switched to the user view. The user can see the course catalog and register for courses.</b></p>
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