

Lab 10: 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.

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: lberg Password: pw Click Login Click OK Click Clear	Pop up with message "User doesn't exist." User ID and password text fields are cleared.	Pop up with message "User doesn't exist." User ID and password text fields are cleared.

T2: Registrar Login	<p>Preconditions: PackSchedulerGUI has loaded</p> <p>User ID: registrar Password: Regi5tr@r Click Login</p>	View switches to Registrar panel with Student Directory functionality displayed	View switches to Registrar panel with Student Directory functionality displayed
T3: Load Student Directory	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2)</p> <p>Click Load Student Directory Select test-files/student_records.txt Click Select</p>	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.
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"> • First Name: • Last Name: Wilkins • ID: pwilkins • Email: pwilkins@ncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 15 <p>Click Add Student</p> <p>Click OK</p>	Error Message: Invalid first name	Error Message: Invalid first name

<p>T5: Add Invalid Student - no last name</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"> • First Name: Patience • Last Name: • ID: pwilkins • Email: pwilkins@ncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 15 <p>Click Add Student</p> <p>Click OK</p>	<p>Error Message: Invalid last name</p>	<p>Error Message: Invalid last name</p>
<p>T6: Add Invalid Student - no id</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"> • First Name: Patience • Last Name: Wilkins • ID: • Email: pwilkins@ncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 15 <p>Click Add Student</p> <p>Click OK</p>	<p>Error Message: Invalid id</p>	<p>Error Message: Invalid id</p>

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"> • First Name: Patience • Last Name: Wilkins • ID: pwilkins • Email: • Password: pw • Repeat Password: pw • Max Credits: 15 <p>Click Add Student</p> <p>Click OK</p>	Error Message: Invalid email	Error Message: Invalid email
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"> • First Name: Patience • Last Name: Wilkins • ID: pwilkins • Email: pwilkinsncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 15 <p>Click Add Student</p> <p>Click OK</p>	Error Message: Invalid email	Error Message: Invalid email

<p>T9: Add Invalid Student - pass-words 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"> • First Name: Patience • Last Name: Wilkins • ID: pwilkins • Email: pwilkins@ncsu.edu • Password: pw1 • Repeat Password: pw • Max Credits: 15 <p>Click Add Student</p> <p>Click OK</p>	<p>Error Message: Passwords do not match</p>	<p>Error Message: Passwords do not match</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"> • First Name: Patience • Last Name: Wilkins • ID: pwilkins • Email: pwilkins@ncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 0 <p>Click Add Student</p> <p>Click OK</p>	<p>Error Message: Invalid max credits</p>	<p>Error Message: Invalid max credits</p>

T11: Add Invalid Student - 11 max credits	<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"> • First Name: Patience • Last Name: Wilkins • ID: pwilkins • Email: pwilkins@ncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 19 <p>Click Add Student</p> <p>Click OK</p>	Error Message: Invalid max credits	Error Message: Invalid max credits
T12: Add Student - end	<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"> • First Name: Patience • Last Name: Wilkins • ID: pwilkins • Email: pwilkins@ncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 15 <p>Click Add Student</p> <p>Click OK</p>	Patience Wilkins is added to the Student Directory and is the last student in the list.	Patience Wilkins is added to the Student Directory and is the last student in the list.

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"> • First Name: Rylee • Last Name: Puckett • ID: rpuckett • Email: rpuckett@ncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 15 <p>Click Add Student</p> <p>Click OK</p>	<p>Rylee Puckett is added to the Student Directory between Dylan Nolan and Cassandra Schwartz</p>	<p>Rylee Puckett is added to the Student Directory between Dylan Nolan and Cassandra Schwartz</p>
T14: Add Student - front	<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"> • First Name: Melvin • Last Name: Acevedo • ID: macevedo • Email: macevedo@ncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 15 <p>Click Add Student</p> <p>Click OK</p>	<p>Melvin Acevedo is added to the Student Directory and is the first student in the list.</p>	<p>Melvin Acevedo is added to the Student Directory and is the first student in the list.</p>

T15: Remove Student - no selection	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).</p> <p>Click Remove Student</p>	Error Message: No student selected	Error Message: No student selected
T16: Remove Student - middle	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).</p> <p>Select Shannon Hansen</p> <p>Click Remove student</p>	Shannon Hansen is removed. Athea Hicks follows Emerald Frost in the list	Shannon Hansen is removed. Athea Hicks follows Emerald Frost in the list
T17: Remove Student - front	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T14 has run.</p> <p>Select Melvin Acevedo</p> <p>Click Remove student</p>	Melvin Acevedo is removed. Demetrius Austin is front of the directory	Melvin Acevedo is removed. Demetrius Austin is front of the directory
T18: Remove Student - back	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12 has run.</p> <p>Select Patience Wilkins</p> <p>Click Remove student</p>	Patience Wilkins is removed. Griffith Stone is last in the directory	Patience Wilkins is removed. Griffith Stone is last in the directory

<p>T19: Save Student Directory</p>	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12-T18 have run.</p> <p>Click Save Student Directory</p> <p>Select test-files directory and name the file t19_student_directory.txt.</p>	<p>Contents should be (note that the password hash may be different due to encoding):</p> <p>Demetrius,Austin,daustin,Curabitur.egestas.nunc@placeratorcilacus.co.uk,0ÉRú±"ÃùuŸ!Ù\7X²F'pâ9•{-OîFâapÄ,18 Lane,Berg,lberg,so-ciis@non.org,0ÉRú±"ÃùuŸ!Ù\7X²F'pâ9•{-OîFâapÄ,14 Raymond,Brennan,rbrennan,litora.torquent@pel-lentesquemassalobor-tis.ca,0ÉRú±"ÃùuŸ!Ù\7X²F'pâ9•{-OîFâapÄ,12 Emerald,Frost,efrost,adipiscing@acipsumPhasel-lus.edu,0ÉRú±"ÃùuŸ!Ù\7X²F'pâ9•{-OîFâapÄ,3 Althea,Hicks,ahicks,Phasel-lus.dapibus@luc-tusfelis.com,0ÉRú±"ÃùuŸ!Ù\7X²F'pâ9•{-OîFâapÄ,11 Za-hir,King,zking,orci.Donec@ametmassaQuisque.com,0ÉRú±"ÃùuŸ!Ù\7X²F'pâ9•{-OîFâapÄ,15 Dylan,Nolan,dnolan,plac-erat.Cras.dictum@dictum.net,0ÉRú±"ÃùuŸ!Ù\7X²F'pâ9•{-OîFâapÄ,5 Rylee,Puckett,rpuckett,rpuck-</p>	<p>Contents are:</p> <p>Demetrius,Austin,daustin,Curabitur.egestas.nunc@placeratorcilacus.co.uk,0ÉRú±"ÃùuŸ!Ù\7X²F'pâ9•{-OîFâapÄ,18 Lane,Berg,lberg,so-ciis@non.org,0ÉRú±"ÃùuŸ!Ù\7X²F'pâ9•{-OîFâapÄ,14 Raymond,Brennan,rbrennan,litora.torquent@pel-lentesquemassalobor-tis.ca,0ÉRú±"ÃùuŸ!Ù\7X²F'pâ9•{-OîFâapÄ,12 Emerald,Frost,efrost,adipiscing@acipsumPhasel-lus.edu,0ÉRú±"ÃùuŸ!Ù\7X²F'pâ9•{-OîFâapÄ,3 Althea,Hicks,ahicks,Phasel-lus.dapibus@luc-tusfelis.com,0ÉRú±"ÃùuŸ!Ù\7X²F'pâ9•{-OîFâapÄ,11 Za-hir,King,zking,orci.Donec@ametmassaQuisque.com,0ÉRú±"ÃùuŸ!Ù\7X²F'pâ9•{-OîFâapÄ,15 Dylan,Nolan,dnolan,plac-erat.Cras.dictum@dictum.net,0ÉRú±"ÃùuŸ!Ù\7X²F'pâ9•{-OîFâapÄ,5 Rylee,Puckett,rpuckett,rpuckett@ncsu.edu,0ÉRú±"ÃùuŸ!Ù\7X²F'pâ9•{-OîFâapÄ,15 Cassan-</p>
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T20: New Student Directory	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12-T18 have run.</p> <p>Click New Student Directory</p>	An empty student directory is shown.	An empty student directory is shown.
T21: Add Student - first	<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> <ul style="list-style-type: none"> • First Name: Patience • Last Name: Wilkins • ID: pwilkins • Email: pwilkins@ncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 15 <p>Click Add Student</p> <p>Click OK</p>	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	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).</p> <p>Click Course Catalog</p>	Course Catalog functionality displayed	Course Catalog functionality displayed
T23: Load Course Catalog	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2)</p> <p>Click Load Course Catalog</p> <p>Select test-files/course_records.txt</p> <p>Click Select</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

<p>T24: Add Invalid Course - no name</p>	<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"> • Course Name: • Course Title: Computer Organization and Assembly Language • Course Section: 001 • Credits: 3 • Instructor Id: lasher • Enrollment Cap: 10 • Start Time: 10:15 AM • End Time: 11:30 AM • Meeting Days: Tuesday & Thursday <p>Click Add Course</p> <p>Click OK</p>	<p>Error Message: Invalid name</p>	<p>Error Message: Invalid name</p>
<p>T25: Add Invalid Course - no title</p>	<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"> • Course Name: CSC236 • Course Title: • Course Section: 001 • Credits: 3 • Instructor Id: lasher • Enrollment Cap: 10 • Start Time: 10:15 AM • End Time: 11:30 AM • Meeting Days: Tuesday & Thursday <p>Click Add Course</p> <p>Click OK</p>	<p>Error Message: Invalid title</p>	<p>Error Message: Invalid title</p>

<p>T26: Add Invalid Course - no section</p>	<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"> • Course Name: CSC236 • Course Title: Computer Organization and Assembly Language • Course Section: • Credits: 3 • Instructor Id: lasher • Enrollment Cap: 10 • Start Time: 10:15 AM • End Time: 11:30 AM • Meeting Days: Tuesday & Thursday <p>Click Add Course</p> <p>Click OK</p>	<p>Error Message: Invalid section</p>	<p>Error Message: Invalid section</p>
<p>T27: Add Invalid Course - section too short</p>	<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"> • Course Name: CSC236 • Course Title: Computer Organization and Assembly Language • Course Section: 0011 • Credits: 3 • Instructor Id: lasher • Enrollment Cap: 10 • Start Time: 10:15 AM • End Time: 11:30 AM • Meeting Days: Tuesday & Thursday <p>Click Add Course</p>	<p>Error Message: Invalid section</p>	<p>Error Message: Invalid section</p>

	Click OK		
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"> • Course Name: CSC236 • Course Title: Computer Organization and Assembly Language • Course Section: 01 • Credits: 3 • Instructor Id: lasher • Enrollment Cap: 10 • Start Time: 10:15 AM • End Time: 11:30 AM • Meeting Days: Tuesday & Thursday <p>Click Add Course</p> <p>Click OK</p>	Error Message: Invalid section	

<p>T29: Add Invalid Course - no instructor id</p>	<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"> • Course Name: CSC236 • Course Title: Computer 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 <p>Click Add Course</p> <p>Click OK</p>	<p>Error Message: Invalid instructor id</p>	<p>Error Message: Invalid instructor id</p>
<p>T30: Add Invalid Course - end time after start time</p>	<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"> • Course Name: CSC236 • Course Title: Computer Organization and Assembly Language • Course Section: 001 • Credits: 3 • Instructor Id: lasher • Enrollment Cap: 10 • Start Time: 11:30 AM • End Time: 10:15 AM • Meeting Days: Tuesday & Thursday <p>Click Add Course</p>	<p>Error Message: Invalid meeting times</p>	<p>Error Message: Invalid meeting times</p>

	Click OK		
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"> • Course Name: CSC236 • Course Title: Computer Organization and Assembly Language • Course Section: 001 • Credits: 3 • Instructor Id: lasher • Enrollment Cap: 10 • Start Time: 10:15 AM • End Time: 11:30 AM • Meeting Days: <p>Click Add Course</p> <p>Click OK</p>	<p>Error Message: Invalid meeting days</p>	<p>Error Message: Invalid meeting days</p>

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> <ul style="list-style-type: none"> • Course Name: CSC236 • Course Title: Computer Organization and Assembly Language • Course Section: 001 • Credits: 3 • Instructor Id: lasher • Enrollment Cap: 10 • Start Time: 10:15 AM • End Time: 11:30 AM • Meeting Days: Tuesday & Thursday <p>Click Add Course</p> <p>Click OK</p>	CSC236-001 is added to the list at the end following CSC230-001	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"> • Course Name: CSC113 • Course Title: Introduction to Computer - MATLAB • Course Section: 001 • Credits: 3 • Instructor Id: tbdimitr • Enrollment Cap: 10 • Start Time: 3:00 PM • End Time: 3:50 PM • Meeting Days: Monday & Wednesday <p>Click Add Course</p>	CSC113-001 is added to the list at the front and is followed by CSC116-001.	CSC113-001 is added to the list at the front and is followed by CSC116-001.

	Click OK		
T34: Add Course - middle	<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"> • Course Name: CSC116 • Course Title: Introduction to Programming - Java • Course Section: 006 • Credits: 3 • Instructor Id: jdyoung2 • Enrollment Cap: 10 • Start Time: 10:40 AM • End Time: 12:30 PM • Meeting Days: Tuesday & Thursday <p>Click Add Course</p> <p>Click OK</p>	<p>CSC116-006 is added to the list between CSC116-003 and CSC216-001.</p>	<p>CSC116-006 is added to the list between CSC116-003 and CSC216-001.</p>

T35: Remove Course - no selection	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).</p> <p>Click Remove Course</p>	Error Message: No course selected	Error Message: No course selected
T36: Remove Course - middle	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).</p> <p>Select CSC216-001</p> <p>Click Remove Course</p>	CSC216-001 is removed. CSC116-006 is followed by CSC216-002.	CSC216-001 is removed. CSC116-006 is followed by CSC216-002.
T37: Remove Course - front	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T33 has run.</p> <p>Select CSC113-001</p> <p>Click Remove Course</p>	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
T38: Remove Course - back	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T32 has run.</p> <p>Select CSC236-001</p> <p>Click Remove Course</p>	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

T39: Save Course Catalog	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T32-T38 have run.</p> <p>Click Save Course Catalog</p> <p>Select test-files directory and name the file t39_course_catalog.txt.</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,Java,006,3,jdyoung2,10,TH,1040,1230 CSC216,Programming Concepts - Java,002,4,jtking,10,MW,1330,1445 CSC216,Programming Concepts - Java,601,4,jep,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,1145,1300</p>	<p>Contents are:</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,Java,006,3,jdyoung2,10,TH,1040,1230 CSC216,Programming Concepts - Java,002,4,jtking,10,MW,1330,1445 CSC216,Programming Concepts - Java,601,4,jep,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,1145,1300</p>
T40: New Course Catalog	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12-T18 have run.</p> <p>Click New Course Catalog</p>	<p>An empty course catalog is shown.</p>	<p>An empty course catalog is shown.</p>

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"> • Course Name: CSC216 • Course Title: Programming Concepts - Java • Course Section: 601 • Credits: 4 • Instructor Id: jep • Enrollment Cap: 10 • Start Time: • End Time: • Meeting Days: Arranged <p>Click Add Course</p> <p>Click OK</p>	CSC216-601 is added to the list	CSC216-601 is added to the list
T42: Log-out	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).</p> <p>Click Logout</p>	User is returned to the Login view	User is returned to the Login view
T43: Login Student	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T21 has run</p> <p>User ID: pwilkins Password: pw</p> <p>Click: Login</p>	pwilkins is logged in and is switched to the user view. All that is shown is a Logout button.	pwilkins is logged in and is switched to the user view. All that is shown is a Logout button.

<p>T44: Login Student with Course Catalog</p>	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T21 has run.</p> <p>Click Load Course Catalog Select test-files/t43_course_catalog.txt Click Select</p> <p>Click Logout.</p> <p>User ID: pwilkins Password: pw</p> <p>Click: Login</p>	<p>The course catalog now has 9 classes, starting with ART215 and ending with MUS120.</p> <p>pwilkins is logged in and is switched to the user view. The course catalog is shown with 9 classes.</p>	<p>The course catalog now has 9 classes, starting with ART215 and ending with MUS120.</p> <p>pwilkins is logged in and is switched to the user view. The course catalog is shown with 9 classes.</p>
<p>T45: Add course to schedule</p>	<p>Preconditions: PackSchedulerGUI has loaded and T44 has run.</p> <p>Select CSC116 001</p> <p>Click Add Course</p>	<p>CSC116 001's course information is seen in the course details</p> <p>CSC116 is added to the schedule</p>	<p>CSC116 001's course information is seen in the course details</p> <p>CSC116 is added to the schedule</p>
<p>T46: Add duplicate course to schedule</p>	<p>Preconditions: PackSchedulerGUI has loaded and T45 has run.</p> <p>Select CSC116 002 Click Add Course</p> <p>Click OK</p>	<p>Error Message: Course cannot be added to schedule.</p>	<p>Error Message: Course cannot be added to schedule.</p>

T47: Add conflicting course to schedule	<p>Preconditions: PackSchedulerGUI has loaded and T46 has run.</p> <p>Select BIO101 001 Click Add Course</p> <p>Click OK</p>	Error Message: Course cannot be added to schedule.	Error Message: Course cannot be added to schedule.
T48: Remove course from schedule	<p>Preconditions: PackSchedulerGUI has loaded and T47 has run.</p> <p>Select CSC116 001 in Student's Schedule Click Remove Course</p>	Schedule is now empty	Schedule is now empty
T49: Add multiple courses and set title	<p>Preconditions: PackSchedulerGUI has loaded and T44 has run.</p> <p>Select ART215 001 Click Add Course</p> <p>Select CSC114 006 Click Add Course</p> <p>Select BIO101 001 Click Add Course</p> <p>Select CSC116 002 Click Add Course</p> <p>Select MUS120 Click Add Course In the text field next to Schedule Title, type "Fall 2017"</p> <p>Click Set Title</p>	<p>Schedule now has 5 classes, starting with ART215 and ending with MUS120</p> <p>The schedule's title is now: Fall 2017</p> <p>Each class in the schedule shows 9 open seats.</p>	<p>Schedule now has 5 classes, starting with ART215 and ending with MUS120</p> <p>The schedule's title is now: Fall 2017</p> <p>Each class in the schedule shows 9 open seats.</p>

T50: Attempt to overload student's schedule	<p>Preconditions: PackSchedulerGUI has loaded and T49 has run.</p> <p>Select ECN101</p> <p>Click Add Course</p> <p>Click OK</p>	Error Message: Course cannot be added to schedule.	Error Message: Course cannot be added to schedule.
T50: reset schedule	<p>Preconditions: PackSchedulerGUI has loaded and T49 has run.</p> <p>Click Reset Schedule</p>	The schedule is empty and the title is now "My Schedule"	The schedule is empty and the title is now "My Schedule"
T51: Test Load Faculty Record	<p>Preconditions: PackSchedulerGUI has loaded and registrar is logged in (T2)</p> <p>Click Faculty Directory</p> <p>Click Load Faculty Directory</p> <p>Choose test-files/faculty_records.txt</p>	<p>The UI switches to an empty Faculty Directory panel.</p> <p>The Faculty Directory contains 8 faculty members, starting with Ashely Witt and ending in Lacey Walls</p>	<p>The UI switches to an empty Faculty Directory panel.</p> <p>The Faculty Directory contains 8 faculty members, starting with Ashely Witt and ending in Lacey Walls</p>

Test 52: Test First Name	<p>Preconditions: PackSchedulerGUI has loaded and T51 has run.</p> <p>In the Faculty Controls, enter:</p> <p>First Name: Last Name: Adams ID: tadams Email: tadams@ncsu.edu Password: pw Repeat Password: pw Max Courses: 2</p> <p>Click Add Faculty</p> <p>Click OK</p>	Error message: Invalid first name	Error message: Invalid first name
T53: Test Last Name	<p>Preconditions: PackSchedulerGUI has loaded and T51 has run.</p> <p>In the Faculty Controls, enter:</p> <p>First Name: Timberly Last Name: ID: tadams Email: tadams@ncsu.edu Password: pw Repeat Password: pw Max Courses: 2</p> <p>Click Add Faculty</p> <p>Click OK</p>	Error message: Invalid last name	Error message: Invalid last name

T54: Test Faculty ID	<p>Preconditions: PackSchedulerGUI has loaded and T51 has run.</p> <p>In the Faculty Controls, enter:</p> <p>First Name: Timberly Last Name: Adams ID: Email: tadams@ncsu.edu Password: pw Repeat Password: pw Max Courses: 2</p> <p>Click Add Faculty</p> <p>Click OK</p>	Error message: Invalid id	Error message: Invalid id
T55: Test faculty email	<p>Preconditions: PackSchedulerGUI has loaded and T51 has run.</p> <p>In the Faculty Controls, enter:</p> <p>First Name: Timberly Last Name: ID: tadams Email: Password: pw Repeat Password: pw Max Courses: 2</p> <p>Click Add Faculty</p> <p>Click OK</p>	Error message: Invalid email	Error message: Invalid email

T56: Test Faculty Password	<p>Preconditions: PackSchedulerGUI has loaded and T51 has run.</p> <p>In the Faculty Controls, enter:</p> <p>First Name: Timberly Last Name: ID: tadams Email: tadams@ncsu.edu Password: pw Repeat Password: pw Max Courses: 2</p> <p>Click Add Faculty</p> <p>Click OK</p>	Error message: Invalid password	Error message: Invalid password
T57: Test Faculty Password Mismatch	<p>Preconditions: PackSchedulerGUI has loaded and T51 has run.</p> <p>In the Faculty Controls, enter:</p> <p>First Name: Timberly Last Name: ID: tadams Email: tadams@ncsu.edu Password: pw Repeat Password: pw Max Courses: 2</p> <p>Click Add Faculty</p> <p>Click OK</p>	Error message: Passwords do not match	Error message: Passwords do not match

<p>T58: Test Add Faculty</p>	<p>Preconditions: PackSchedulerGUI has loaded and T51 has run.</p> <p>In the Faculty Controls, enter:</p> <p>First Name: Timberly Last Name: Adams ID: tadams Email: tadams@ncsu.edu Password: pw Repeat Password: pw Max Courses: 2</p> <p>Click Add Faculty</p> <p>Click OK</p>	<p>Timberly Adams is added to the list of faculty members at the end of the list</p>	<p>Timberly Adams is added to the list of faculty members at the end of the list</p>
<p>T59: Remove Faculty</p>	<p>Preconditions: PackSchedulerGUI has loaded and T58 has run.</p> <p>Select Halla Aguirre Click Remove Faculty</p> <p>Select Ashley Witt Click Remove Faculty</p> <p>Select Timberly Adams Click Remove Faculty</p>	<p>Halla Aguirre is removed from the list</p> <p>Ashley Witt is removed from the list</p> <p>Timberley Adams is removed from the list.</p>	<p>Halla Aguirre is removed from the list</p> <p>Ashley Witt is removed from the list</p> <p>Timberley Adams is removed from the list.</p>

<p>T60: Save Faculty</p>	<p>Precondition: PackSchedulerGUI has loaded and T59 has run.</p> <p>Click Save Faculty Directory and choose test-files/T60_faculty_directory.txt</p> <p>Click Save</p>	<p>T60_faculty_directory should contain:</p> <p>Ashely,Witt,awitt,mol-lis@Fuscealiquetma-gna.net,0?R???"?u???\7X?F???9?{-O?F?ap?,2 Fiona,Mead-ows,fmeadow,pharetra.sed@et.org,0?R???"?u???\7X?F???9?{-O?F?ap?,3 Brent,Brewer,bbrewer,sem.semper@or-cisem.co.uk,0?R???"?u???\7X?F???9?{-O?F?ap?,1 Halla,Aguirre,haguirr,Fusce.dolor.quam@amalesuadaid.net,0?R???"?u???\7X?F???9?{-O?F?ap?,3 Kevyn,Patel,kpatel,risus@pellentesque.ca,0?R???"?u???\7X?F???9?{-O?F?ap?,1 El-ton,Briggs,ebriggs,arcu.ac@ipsuumsodalespu-rus.edu,0?R???"?u???\7X?F???9?{-O?F?ap?,3 Nor-man,Brady,nbrady,pede.nonummy@elitfermentum.co.uk,0?R???"?u???\7X?F???9?{-O?F?ap?,1</p>	<p>T60_faculty_directory contains:</p> <p>Ashely,Witt,awitt,mol-lis@Fuscealiquetma-gna.net,0?R???"?u???\7X?F???9?{-O?F?ap?,2 Fiona,Mead-ows,fmeadow,pharetra.sed@et.org,0?R???"?u???\7X?F???9?{-O?F?ap?,3 Brent,Brewer,bbrewer,sem.semper@or-cisem.co.uk,0?R???"?u???\7X?F???9?{-O?F?ap?,1 Halla,Aguirre,haguirr,Fusce.dolor.quam@amalesuadaid.net,0?R???"?u???\7X?F???9?{-O?F?ap?,3 Kevyn,Patel,kpatel,risus@pellentesque.ca,0?R???"?u???\7X?F???9?{-O?F?ap?,1 El-ton,Briggs,ebriggs,arcu.ac@ipsuumsodalespu-rus.edu,0?R???"?u???\7X?F???9?{-O?F?ap?,3 Norman,Brady,nbrady,pede.nonummy@elitfermentum.co.uk,0?R???"?u???\7X?F???9?{-O?F?ap?,1 Lacey,Walls,lwalls,nascetur.ridiculus.mus@fermentum.net,0?R???"?u???\7X?F???9?{-O?F?ap?,2</p>
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		<p>Lacey,Walls,lwalls,nas- cetur.ridiculus.mus@fermen- tum.net,0?R??"??u???\7X?F ???9?{-O?F?ap?,2</p>	
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T61: New Faculty Directory	Precondition: PackSchedulerGUI has loaded and T60 has run. Click New Faculty Directory	All faculty members are cleared and an empty faculty directory is shown	All faculty members are cleared and an empty faculty directory is shown
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