

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	Preconditions: PackSchedulerGUI has loaded User ID: registrar Password: Regi5tr@r Click Login	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>	<p>10 students are listed in alphabetical order by last name. The list starts with Demetrius Austin and ends with Griffith Stone.</p>	<p>10 students are listed in alphabetical order by last name. The list starts with Demetrius Austin and ends with Griffith Stone.</p>
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>	<p>Error Message: Invalid first name</p>	<p>Error Message: Invalid first name</p>
T5: Add Invalid Student - no last name	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.</p>		<p>Error Message: Invalid last name</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>	Error Message: Invalid last name	
T6: Add Invalid Student - no id	<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 	Error Message: Invalid id	Error Message: Invalid id

	Click Add Student Click OK		
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: <ul style="list-style-type: none"> • 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	Error Message: Invalid email
T8: Add Invalid Student - invalid email	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"> • First Name: Patience • Last Name: Wilkins • ID: pwilkins 	Error Message: Invalid email	Error Message: Invalid email

	<ul style="list-style-type: none"> Email: pwilkinsncsu.edu Password: pw Repeat Password: pw Max Credits: 15 Click Add Student Click OK		
T9: Add Invalid Student - passwords 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: <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 Click Add Student Click OK	Error Message: Passwords do not match	Error Message: Passwords do not match
T10: Add Invalid Student - zero max credits	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.		Error Message: Invalid max credits

	<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>	Error Message: Invalid max credits	
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 	Error Message: Invalid max credits	Error Message: Invalid max credits

	Click Add Student Click OK		
T12: Add Student - end	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"> • 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 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	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"> • First Name: Rylee • Last Name: Puckett 		Rylee Puckett is added to the Student Directory between Dylan Nolan and Cassandra Schwartz

	<ul style="list-style-type: none"> • ID: rpuckett • Email: rpuckett@ncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 15 <p>Click Add Student</p> <p>Click OK</p>	Rylee Puckett is added to the Student Directory between Dylan Nolan and Cassandra Schwartz	
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>	Melvin Acevedo is added to the Student Directory and is the first student in the list.	Melvin Acevedo is added to the Student Directory and is the first student in the list.
T15: Remove Student - no selection	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).</p>	Error Message: No student selected	Error Message: No student selected

	Click Remove Student		
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	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	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	Patience Wilkins is removed. Griffith Stone is last in the directory	Patience Wilkins is removed. Griffith Stone is last in the directory
T19: Save Student Directory	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12-T18 have run. Click Save Student Directory	Contents should be (note that the password hash may be different due to encoding): Demetrius,Austin,daustin,Curabitur.egestas.nunc@placerat orcilacus.co.uk,0ÉRú±"ÃùuŸ! Û\7X²F´pâ9•{-OîFâapÄ,18	Contents should be (note that the password hash may be different due to encoding): Demetrius,Austin,daustin,Curabitur.egestas.nunc@

	<p>Select test-files directory and name the file t19_student_directory.txt.</p>	<p>Lane,Berg,lberg,sociis@non.org,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,14 Raymond,Brennan,rbrennan,litoratorquent@pellentesquemassalobortis.ca,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,12 Emerald,Frost,efrost,adipiscin g@acipsumPhasellus.edu,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,3 Althea,Hicks,ahicks,Phasellus.dapibus@luctusfelis.com,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,11 Zahir,King,zking,orci.Donec@ametmassaQuisque.com,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,15 Dylan,Nolan,dnolan,placerat.Cras.dictum@dictum.net,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,5 Rylee,Puckett,rpuckett,rpuckett@ncsu.edu,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,15 Cassandra,Schwartz,cschwartz,semper@imperdietornare.co.uk,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,4 Griffith,Stone,gstone,porta@magnamalesuadavel.net,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,17</p>	<p>placeratorcilacus.co.uk,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,18 Lane,Berg,lberg,sociis@non.org,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,14 Raymond,Brennan,rbrennan,litoratorquent@pellentesquemassalobortis.ca,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,12 Emerald,Frost,efrost,adipiscin g@acipsumPhasellus.edu,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,3 Althea,Hicks,ahicks,Phasellus.dapibus@luctusfelis.com,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,11 Zahir,King,zking,orci.Donec@ametmassaQuisque.com,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,15 Dylan,Nolan,dnolan,placerat.Cras.dictum@dictum.net,0ÉRú±"ÃùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,5</p>
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			<p>Rylee,Puckett,rpuckett,rpuckett@ncsu.edu,0ÉRú±"ÄùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,15</p> <p>Cassandra,Schwartz,cschwartz,semper@imperdi-etornare.co.uk,0ÉRú±"ÄùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,4</p> <p>Griffith,Stone,gstone,porta@mag-namalesuadavel.net,0ÉRú±"ÄùuŸ!Û\7X²F´pâ9•{-OîFâapÄ,17</p>
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 		

	<ul style="list-style-type: none"> • 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 displayed	Course Catalog functionality 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	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
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: <ul style="list-style-type: none"> • Course Name: 		

	<ul style="list-style-type: none"> • Course Title: Computer Organization and Assembly Language • Course Section: 001 • Credits: 3 • Instructor Id: lasher • Enrollment Cap: 30 • 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 name	Error Message: Invalid name
T25: Add Invalid Course - no title	<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 	Error Message: Invalid title	Error Message: Invalid title

	<ul style="list-style-type: none"> • Enrollment Cap: 30 • Start Time: 10:15 AM • End Time: 11:30 AM • Meeting Days: Tuesday & Thursday <p>Click Add Course</p> <p>Click OK</p>		
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"> • Course Name: CSC236 • Course Title: Computer Organization and Assembly Language • Course Section: • Credits: 3 • Instructor Id: lasher • Enrollment Cap: 30 • Start Time: 10:15 AM • End Time: 11:30 AM 	Error Message: Invalid section	Error Message: Invalid title

	<ul style="list-style-type: none"> Meeting Days: Tuesday & Thursday <p>Click Add Course</p> <p>Click OK</p>		
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"> Course Name: CSC236 Course Title: Computer Organization and Assembly Language Course Section: 0011 Credits: 3 Instructor Id: lasher Enrollment Cap: 30 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	Error Message: Invalid section

<p>T28: Add Invalid Course - section too long</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: 01 • Credits: 3 • Instructor Id: lasher • Enrollment Cap: 30 • 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>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: 30 • 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 instructor id	Error Message: Invalid instructor id
T30: Add Invalid Course - end time after start time	<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 		

	<p>Organization and Assembly Language</p> <ul style="list-style-type: none"> • Course Section: 001 • Credits: 3 • Instructor Id: lasher • Enrollment Cap: 30 • Start Time: 11:30 AM • End Time: 10:15 AM • Meeting Days: Tuesday & Thursday <p>Click Add Course</p> <p>Click OK</p>	Error Message: Invalid meeting times	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"> • Course Name: CSC236 • Course Title: Computer Organization and Assembly Language • Course Section: 001 • Credits: 3 	Error Message: Invalid meeting days	Error Message: Invalid meeting days

	<ul style="list-style-type: none"> • Instructor Id: lasher • Enrollment Cap: 30 • Start Time: 10:15 AM • End Time: 11:30 AM • Meeting Days: <p>Click Add Course</p> <p>Click OK</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: 30 • Start Time: 10:15 AM • End Time: 11:30 AM 	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

	<ul style="list-style-type: none"> Meeting Days: Tuesday & Thursday <p>Click Add Course</p> <p>Click OK</p>		
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: 30 Start Time: 3:00 PM End Time: 3:50 PM Meeting Days: Monday & Wednesday <p>Click Add Course</p> <p>Click OK</p>	<p>CSC113-001 is added to the list at the front and is followed by CSC116-001.</p>	<p>CSC113-001 is added to the list at the front and is followed by CSC116-001.</p>

<p>T34: Add Course - middle</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: CSC116 • Course Title: Introduction to Programming - Java • Course Section: 006 • Credits: 3 • Instructor Id: jdyoung2 • Enrollment Cap: 30 • 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>
<p>T35: Remove Course - no selection</p>	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).</p> <p>Click Remove Course</p>	<p>Error Message: No course selected</p>	<p>Error Message: No course selected</p>

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>	<p>CSC216-001 is removed. CSC116-006 is followed by CSC216-002.</p>	<p>CSC216-001 is removed. CSC116-006 is followed by CSC216-002.</p>
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>	<p>CSC113-001 is removed. CSC116-001 is the first course in the catalog</p>	<p>CSC113-001 is removed. CSC116-001 is the first course in the catalog</p>
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>	<p>CSC236-001 is removed. CSC230-001 is the last course in the catalog</p>	<p>CSC236-001 is removed. CSC230-001 is the last course in the catalog</p>
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>Contents should be:</p> <p>CSC116,Intro to Programming - Java,001,3,jdyoung2,MW,910,1100</p> <p>CSC116,Intro to Programming - Java,002,3,spbalik,MW,1120,1310</p>	<p>Contents are:</p> <p>CSC116,Intro to Programming - Java,001,3,jdyoung2,MW,910,1100</p> <p>CSC116,Intro to Programming - Java,002,3,spbal</p>

	Select test-files directory and name the file t39_course_catalog.txt.	CSC116,Intro to Programming - Java,003,3,tbdimitr,TH,1120,1310 CSC116,Java,006,3,jdyoung2,TH,1040,1230 CSC216,Programming Concepts - Java,002,4,jtking,MW,1330,1445 CSC216,Programming Concepts - Java,601,4,jep,A CSC226,Discrete Mathematics for Computer Scientists,001,3,tmbarnes,MWF,935,1025 CSC230,C and Software Tools,001,3,dbsturgi,MW,1145,1300	ik,MW,1120,1310 CSC116,Intro to Programming - Java,003,3,tbdimitr,TH,1120,1310 CSC116,Java,006,3,jdyoung2,TH,1040,1230 CSC216,Programming Concepts - Java,002,4,jtking,MW,1330,1445 CSC216,Programming Concepts - Java,601,4,jep,A CSC226,Discrete Mathematics for Computer Scientists,001,3,tmbarnes,MWF,935,1025 CSC230,C and Software Tools,001,3,dbsturgi,MW,1145,1300
T40: New Course Catalog	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12-T18 have run. Click New Course Catalog	An empty course catalog is shown.	An empty course catalog is shown.
T41: Add Course - first	Preconditions: PackSchedulerGUI has loaded and registrar user		

	<p>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: 30 • 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: Logout	<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
T44: Test Faculty	<p>Preconditions: T2 has run</p> <p>Click on the Faculty Directory Tab.</p> <p><i>Check Results</i></p>	Faculty Directory Functionality is displayed.	Faculty Directory Functionality is displayed.

T45: Test Load Invalid Faculty	<p>Preconditions: T2, T43</p> <p>Click Load Faculty Directory.</p> <p>Select invalid_faculty_records.txt</p> <p><i>Check Results</i></p>	Faculty Directory is empty	Faculty Directory is empty
T46: Test Add Faculty	<p>Preconditions: T2, T43</p> <p>Click Load Faculty Directory.</p> <p>Select faculty_records.txt</p> <p><i>Check Results</i></p>	<p>There should be 8 faculty in the Faculty Directory</p> <p>Contents should be: Ashely,Witt,awitt, Fiona,Meadows,fmeadow Brent,Brewer,bbrewer, Halla,Aguirre,haguirr, Kevyn,Patel,kpatel, Elton,Briggs,ebriggs, Norman,Brady,nbrady, Lacey,Walls,lwalls,</p>	<p>There are 8 faculty in the Faculty Directory</p> <p>Contents are: Ashely,Witt,awitt, Fiona,Meadows,f meadow Brent,Brewer,bbr ewer, Halla,Aguirre,ha guirr, Kevyn,Patel,kpat el, Elton,Briggs,ebr iggs, Norman,Brady,n brady, Lacey,Walls,lwall s,</p>
T47: Test Invalid Faculty Name	<p>Preconditions: T2</p> <p>Enter the following into Faculty Information section:</p>	An error message appears with the text "Invalid first name".	An error message appears with the text "Invalid first name".

	<ul style="list-style-type: none"> • First Name: Teacherson • Last Name: Teacherson • ID: tteacherson • Email: tteacherson@ncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 3 <p>Click Add Faculty</p> <p><i>Check Results</i></p> <p>Click OK</p>		
T48: Test Invalid Faculty Name 2	<p>Preconditions: T2</p> <p>Enter the following into Faculty Information section:</p> <ul style="list-style-type: none"> • First Name: Teachy • Last Name: Teacherson • ID: tteacherson • Email: tteacherson@ncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 3 <p>Click Add Faculty</p> <p><i>Check Results</i></p> <p>Click OK</p>	An error message appears with the text "Invalid last name".	An error message appears with the text "Invalid last name".

<p>T49: Test Invalid Faculty ID</p>	<p>Preconditions: T2</p> <p>Enter the following into Faculty Information section:</p> <ul style="list-style-type: none"> • First Name: Teachy • Last Name: Teacherson • ID: • Email: tteacherson@ncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 3 <p>Click Add Faculty</p> <p><i>Check Results</i></p> <p>Click OK</p>	<p>An error message appears with the text "Invalid id".</p>	<p>An error message appears with the text "Invalid id".</p>
<p>T50: Test Invalid Faculty Email</p>	<p>Preconditions: T2</p> <p>Enter the following into Faculty Information section:</p> <ul style="list-style-type: none"> • First Name: Teachy • Last Name: Teacherson • ID: tteacherson • Email: tteacherson@ncsu.edu • Password: pw 	<p>An error message appears with the text "Invalid email".</p>	<p>An error message appears with the text "Invalid email".</p>

	<ul style="list-style-type: none"> • Repeat Password: pw • Max Credits: 3 Click Add Faculty <i>Check Results</i> Click OK		
T51: Test Add Faculty	Preconditions: T2, T43, T44 Enter the following into Faculty Information section: <ul style="list-style-type: none"> • First Name: Teachy • Last Name: Teacherson • ID: tteacherson • Email: tteacherson@ncsu.edu • Password: pw • Repeat Password: pw • Max Credits: 3 Click Add Faculty <i>Check Results</i>	Teachy Teacherson is added to end of Faculty Directory	Teachy Teacherson is ended to end of Faculty Directory
T52: Invalid Remove	Preconditions: T2, T50 Click Remove Faculty	An error message appears with the text "No faculty selected".	An error message appears with the text "No faculty selected".

T53: Remove Faculty	Preconditions: T2, T50 Select Norman Brady Click Remove Faculty	Norman Brady is removed from the Faculty Directory	Norman Brady is removed from the Faculty Directory
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