

Lab 11: 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: Iberg Password: pw Click Login Click OK Click Clear | Pop up with message "User doesn't exist." User ID and password text fields are cleared. | 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> |

| | | | |
|--|---|-------------------------------------|-------------------------------------|
| <p>T7: Add Invalid Student - no email</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: • Password: pw • Repeat Password: pw • Max Credits: 15 <p>Click Add Student</p> <p>Click OK</p> | <p>Error Message: Invalid email</p> | <p>Error Message: Invalid email</p> |
| <p>T8: Add Invalid Student - invalid email</p> | <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> | <p>Error Message: Invalid email</p> | <p>Error Message: Invalid email</p> |

| | | | |
|--|--|--|--|
| <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"> • 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> |

| | | | |
|--|---|--|--|
| <p>T11: Add Invalid Student - 11 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: 19 <p>Click Add Student</p> <p>Click OK</p> | <p>Error Message: Invalid max credits</p> | <p>Error Message: Invalid max credits</p> |
| <p>T12: Add Student - end</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: 15 <p>Click Add Student</p> <p>Click OK</p> | <p>Patience Wilkins is added to the Student Directory and is the last student in the list.</p> | <p>Patience Wilkins is added to the Student Directory and is the last student in the list.</p> |

| | | | |
|---------------------------|---|---|---|
| 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-lentesquemassalobortis.ca,0ÉRú±"ÃùuŸ!Ù\7X²F´pâ9•{-OîFâapÄ,12 Emerald,Frost,efrost,adipiscing@acipsumPhaselus.edu,0ÉRú±"ÃùuŸ!Ù\7X²F´pâ9•{-OîFâapÄ,3 Althea,Hicks,ahicks,Phaselus.dapibus@luc-tusfelis.com,0ÉRú±"ÃùuŸ!Ù\7X²F´pâ9•{-OîFâapÄ,11 Zahir,King,zking,orci.Donec@ametmassaQuisque.com,0ÉRú±"ÃùuŸ!Ù\7X²F´pâ9•{-OîFâapÄ,15 Dylan,Nolan,dnolan,placerat.Cras.dictum@dictum.net,0ÉRú±"ÃùuŸ!Ù\7X²F´pâ9•{-OîFâapÄ,5</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-lentesquemassalobortis.ca,0ÉRú±"ÃùuŸ!Ù\7X²F´pâ9•{-OîFâapÄ,12 Emerald,Frost,efrost,adipiscing@acipsumPhaselus.edu,0ÉRú±"ÃùuŸ!Ù\7X²F´pâ9•{-OîFâapÄ,3 Althea,Hicks,ahicks,Phaselus.dapibus@luc-tusfelis.com,0ÉRú±"ÃùuŸ!Ù\7X²F´pâ9•{-OîFâapÄ,11 Zahir,King,zking,orci.Donec@ametmassaQuisque.com,0ÉRú±"ÃùuŸ!Ù\7X²F´pâ9•{-OîFâapÄ,15 Dylan,Nolan,dnolan,placerat.Cras.dictum@dictum.net,0ÉRú±"ÃùuŸ!Ù\7X²F´pâ9•{-OîFâapÄ,5 Rylee,Puckett,rpuckett,rpuckett@ncsu.edu,0ÉRú±"ÃùuŸ!Ù\7X²F´pâ9•{-OîFâapÄ,15</p> |
|------------------------------------|--|--|---|

| | | | |
|--|--|--|--|
| | | <p>Rylee,Puckett,rpuck-ett,rpuck-ett@ncsu.edu,0ÉRú±"ÃùuŸ! Ù\7X²F´pâ9•{-OîFâapÄ,15</p> <p>Cassan-dra,Schwartz,cschwartz,semp@imperdietor-nare.co.uk,0ÉRú±"ÃùuŸ! Ù\7X²F´pâ9•{-OîFâapÄ,4</p> <p>Grif-fith,Stone,gstone,porta@magnama-lesuadavel.net,0ÉRú±"ÃùuŸ! Ù\7X²F´pâ9•{-OîFâapÄ,17</p> | <p>Cassan-dra,Schwartz,cschwartz,semp@imperdietor-nare.co.uk,0ÉRú±"ÃùuŸ! Ù\7X²F´pâ9•{-OîFâapÄ,4</p> <p>Grif-fith,Stone,gstone,porta@magnama-lesuadavel.net,0ÉRú±"ÃùuŸ! Ù\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 • 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> | Error Message: Invalid meeting days | |

| | | | |
|-------------------------|--|--|---|
| 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> | <p>CSC236-001 is added to the list at the end following CSC230-001</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"> • 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> | <p>CSC113-001 is added to the list at the front and is followed by CSC116-001.</p> | 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,spbali,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,spbali,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. |

| | | | |
|--|--|--|--|
| T44: Login Student with Course Catalog | <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> |
| T45: Add course to schedule | <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> |
| T46: Add duplicate course to schedule | <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 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@amalesua-daid.net,0?R???"??u???\7X?F???9?{-O?F?ap?,3 Kevyn,Patel,kpatel,risus@pellentes-que.ca,0?R???"??u???\7X?F???9?{-O?F?ap?,1 El-ton,Briggs,ebriggs,arcu.ac@ipsumsodalespu-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@amalesua-daid.net,0?R???"??u???\7X?F???9?{-O?F?ap?,3 Kevyn,Patel,kpatel,risus@pellentes-que.ca,0?R???"??u???\7X?F???9?{-O?F?ap?,1 El-ton,Briggs,ebriggs,arcu.ac@ipsumsodalespu-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,nas-cetur.ridiculus.mus@fermentum.net,0?R???"??u???\7X?F???9?{-O?F?ap?,2</p> |
|--------------------------|---|---|---|

| | | | |
|--|--|---|--|
| | | Lacey,Walls,lwalls,nas- cetur.ridiculus.mus@fermen- tum.net,0?R??"??u???\7X?F ???9?{-O?F?ap?,2 | |
|--|--|---|--|

| | | | |
|---|---|--|--|
| T61: New Faculty Directory | <p>Precondition: PackSchedulerGUI has loaded and T60 has run.</p> <p>Click New Faculty Directory</p> | All faculty members are cleared and an empty faculty directory is shown | All faculty members are cleared and an empty faculty directory is shown |
| T61: Faculty Assignment Panel | <p>Precondition: PackSchedulerGUI has loaded and Registrar is logged in.</p> <p>Click Faculty Assignment.</p> | The Faculty Assignment panel loads and there are no elements in either the Course Catalog or Faculty Directory. | The Faculty Assignment panel loads and there are no elements in either the Course Catalog or Faculty Directory. |
| T62: Load Directories into Faculty Assignment | <p>Precondition: T61 has run.</p> <p>Click Faculty Directory Panel. Click Load Faculty Directory. Choose test-files/faculty_records.txt</p> <p>Click Course Catalog. Click Load Course Catalog. Choose test-files/course_records.txt</p> <p>Click Faculty Assignment.</p> | The Faculty Assignment panel now has 10 courses in the course catalog and 8 instructors in the faculty directory | The Faculty Assignment panel now has 10 courses in the course catalog and 8 instructors in the faculty directory |
| T63: Assign Course to Faculty | <p>Precondition: T62 has run.</p> <p>Choose CSC116-001 from the Course Catalog. Choose Ashley Witt from the Faculty Directory.</p> <p>Click Assign Faculty to Course.</p> | CSC116-001 now has "awitt" listed as the Instructor. | Error message: Course already has an instructor. |

| | | | |
|--|--|--|--|
| T64: Assign Faculty to Course with an Instructor | <p>Precondition: T63 has run.</p> <p>Choose CSC116-001 from the Course Catalog. Choose Fiona Meadows from the Faculty Directory.</p> <p>Click Assign Faculty to Course. Click OK.</p> | Error message: Course already has an instructor. | Error message: Course already has an instructor. |
| T65: Remove Course From Faculty | <p>Precondition: T64 has run.</p> <p>Choose CSC116-001. Choose Fiona Meadows.</p> <p>Click Remove Faculty from Course. Click OK.</p> <p>Choose CSC116-001. Choose Ashley Witt.</p> <p>Click Remove Faculty from Course.</p> | <p>Error message: Cannot remove faculty member from course.</p> <p>"awitt" is removed from the course.</p> | <p>Error message: Cannot remove faculty member from course.</p> <p>"awitt" is removed from the course.</p> |
| T66: Reset Faculty Schedule | <p>Precondition: T64 has run.</p> <p>Click Reset Faculty Schedule</p> <p>Choose another course in the catalog and then return to CSC116-001</p> | "awitt" is no longer listed as the instructor for any course. | "awitt" is no longer listed as the instructor for any course. |