# Lab 07: 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. | **The PackSchedulerGUI opens up**  **After entering the credentials**  **UserID: Iberg**  **Password: pw**  **Clicking on login gives a pop message saying”User doesn’t exist” is shown** |
| 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 | **After T1 is passed**  **Enter user credentials**  **User ID: jdoe**  **Password: passw0rd**  **Clicking on login switches to the registrar panel with Student DIrectory functionality** |
| T3: Load Student Directory | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2)  Click **Load Student Directory**  Select **test-files/student\_records.txt**  Click **Select** | 10 students are listed in alphabetical order by last name. The list starts with Demetrius Austin and ends with Griffith Stone. | **After T2 is passed**  **Clicking on Load Student Directory and selecting student\_records.txt from the test-files folder.**  **Loads a list of 10 students in alphabetical order by the last name. The list starts with Demetrius Austin and ends with Griffith Stone.** |
| T4: Add Invalid Student - no first name | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section:   * First Name: * Last Name: **Wilkins** * ID: **pwilkins** * Email: **pwilkins@ncsu.edu** * Password: **pw** * Repeat Password: **pw** * Max Credits: **15**   Click **Add Student**  Click **OK** | Error Message: Invalid first name | **After T2 and T3 are passing**  **Enter the following in the Student Information section:**  **First Name:**  **Last Name: Wilkins**  **ID: pwilkins**  **Email: pwilkins@ncsu.edu**  **Password: pw**  **Repeat Password: pw**  **Max Credits: 15**  **Clicking on Add Student**  **Shows an error message saying**  **Invalid first name** |
| T5: Add Invalid Student - no last name | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section:   * First Name: **Patience** * Last Name: * ID: **pwilkins** * Email: **pwilkins@ncsu.edu** * Password: **pw** * Repeat Password: **pw** * Max Credits: **15**   Click **Add Student**  Click **OK** | Error Message: Invalid last name | **After T2 and T3 are passing  Enter the following in the Student Information section:**   * **First Name: Patience** * **Last Name:** * **ID: pwilkins** * **Email: pwilkins@ncsu.edu** * **Password: pw** * **Repeat Password: pw** * **Max Credits: 15**   **Clicking on Add Student  Shows an error message saying “Invalid last name”** |
| T6: Add Invalid Student - no id | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section:   * First Name: **Patience** * Last Name: **Wilkins** * ID: * Email: **pwilkins@ncsu.edu** * Password: **pw** * Repeat Password: **pw** * Max Credits: **15**   Click **Add Student**  Click **OK** | Error Message: Invalid id | **After T2 and T3 are passing  Enter the following in the Student Information section:**   * **First Name: Patience** * **Last Name: Wilkins** * **ID:** * **Email: pwilkins@ncsu.edu** * **Password: pw** * **Repeat Password: pw** * **Max Credits: 15**   **Clicking on Add Student  Shows an error message saying “Invalid id”** |
| 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:   * 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 | **After T2 and T3 are passing  Enter the following in the Student Information section:**   * **First Name: Patience** * **Last Name: Wilkins** * **ID: pwilkins** * **Email:** * **Password: pw** * **Repeat Password: pw** * **Max Credits: 15**   **Clicking on Add Student  Shows an error message saying “Invalid email”** |
| T8: Add Invalid Student - invalid email | PPreconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section:   * First Name: **Patience** * Last Name: **Wilkins** * ID: **pwilkins** * Email: **pwilkinsncsu.edu** * Password: **pw** * Repeat Password: **pw** * Max Credits: **15**   Click **Add Student**  Click **OK** | Error Message: Invalid email | **After T2 and T3 are passing  Enter the following in the Student Information section:**   * **First Name: Patience** * **Last Name: Wilkins** * **ID: pwilkins** * **Email: pwilkinsncsu.edu** * **Password: pw** * **Repeat Password: pw** * **Max Credits: 15**   **Clicking on Add Student  Shows an error message saying “Invalid email”** |
| 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:   * 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 | **After T2 and T3 are passing  Enter the following in the Student Information section:**   * **First Name: Patience** * **Last Name: Wilkins** * **ID: pwilkins** * **Email: pwilkins@ncsu.edu** * **Password: pw1** * **Repeat Password: pw** * **Max Credits: 15**   **Clicking on Add Student  Shows an error message saying “Invalid password”** |
| T10: Add Invalid Student - zero max credits | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section:   * First Name: **Patience** * Last Name: **Wilkins** * ID: **pwilkins** * Email: **pwilkins@ncsu.edu** * Password: **pw** * Repeat Password: **pw** * Max Credits: **0**   Click **Add Student**  Click **OK** | Patience Wilkins is added to the Student Directory and is the last student in the list. Max credits is set to 18. | **After T2 and T3 are passing  Enter the following in the Student Information section:**   * **First Name: Patience** * **Last Name: Wilkins** * **ID: pwilkins** * **Email: pwilkins@ncsu.edu** * **Password: pw** * **Repeat Password: pw** * **Max Credits: 0**   **Clicking on Add Student  Student is added with mx credits of 18** |
| T11: Add Invalid Student - 11 max credits | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section:   * First Name: **Patience** * Last Name: **Wilkins** * ID: **pwilkins** * Email: **pwilkins@ncsu.edu** * Password: **pw** * Repeat Password: **pw** * Max Credits: **19**   Click **Add Student**  Click **OK** | Patience Wilkins is added to the Student Directory and is the last student in the list. Max credits is set to 18. | **After T2 and T3 are passing  Enter the following in the Student Information section:**   * **First Name: Patience** * **Last Name: Wilkins** * **ID: pwilkins** * **Email: pwilkins@ncsu.edu** * **Password: pw** * **Repeat Password: pw** * **Max Credits: 19**   **Clicking on Add Student  Student is added with mx credits of 18** |
| 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:   * 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. | **After T2 and T3 are passing  Enter the following in the Student Information section:**   * **First Name: Patience** * **Last Name: Wilkins** * **ID: pwilkins** * **Email: pwilkins@ncsu.edu** * **Password: pw** * **Repeat Password: pw** * **Max Credits: 19**   **Clicking on Add Student 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:   * First Name: **Rylee** * Last Name: **Puckett** * ID: **rpuckett** * Email: **rpuckett@ncsu.edu** * Password: **pw** * Repeat Password: **pw** * Max Credits: **15**   Click **Add Student**  Click **OK** | Rylee Puckett is added to the Student Directory between Dylan Nolan and Cassandra Schwartz | **After T2 and T3 are passing  Enter the following in the Student Information section:**   * **First Name: Rylee** * **Last Name: Puckett** * **ID: rpuckett** * **Email: rpuckett@ncsu.edu** * **Password: pw** * **Repeat Password: pw** * **Max Credits: 15**   **Clicking on Add Student Rylee Puckett is added to the Student Directory between Dylan Nolan and Cassandra Schwartz** |
| T14: Add Student - front | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section:   * First Name: **Melvin** * Last Name: **Acevedo** * ID: **macevedo** * Email: **macevedo@ncsu.edu** * Password: **pw** * Repeat Password: **pw** * Max Credits: **15**   Click **Add Student**  Click **OK** | Melvin Acevedo is added to the Student Directory and is the first student in the list. | **After T2 and T3 are passing  Enter the following in the Student Information section:**   * **First Name: Melvin** * **Last Name: Acevedo** * **ID: macevedo** * **Email: macevedo@ncsu.edu** * **Password: pw** * **Repeat Password: pw** * **Max Credits: 15**   **Clicking on Add Student**  **Melvin Acevedo is added to the Student Directory and is the first student in the list.** |
| T15: Remove Student - no selection | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).  Click **Remove Student** | Error Message: No student selected | **After T2 is passing**  **Clicked on Remove student**  **The given error message is “No student selected.”** |
| 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 | **After T2 is passing**  **Selected Shannon Hansen**  **Clicked on Remove student**  **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 | **After T2 and T14 are passing**  **Selected Melvin Acevedo**  **Clicked on Remove student**  **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 | **After T2 and T12 are passing**  **Selected Patience Wilkins**  **Clicked on Remove student**  **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**  Select **test-files** directory and name the file **t19\_student\_directory.txt**. | Contents should be (note that the password hash may be different due to encoding):  Demetrius,Austin,daustin,Curabitur.egestas.nunc@placeratorcilacus.co.uk,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,18  Lane,Berg,lberg,sociis@non.org,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,14  Raymond,Brennan,rbrennan,litora.torquent@pellentesquemassalobortis.ca,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,12  Emerald,Frost,efrost,adipiscing@acipsumPhasellus.edu,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,3  Althea,Hicks,ahicks,Phasellus.dapibus@luctusfelis.com,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,11  Zahir,King,zking,orci.Donec@ametmassaQuisque.com,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,15  Dylan,Nolan,dnolan,placerat.Cras.dictum@dictum.net,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,5  Rylee,Puckett,rpuckett,rpuckett@ncsu.edu,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,15  Cassandra,Schwartz,cschwartz,semper@imperdietornare.co.uk,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,4  Griffith,Stone,gstone,porta@magnamalesuadavel.net,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,17 | **Contents in t19\_student\_directory.txt**.  **Demetrius,Austin,daustin,Curabitur.egestas.nunc@placeratorcilacus.co.uk,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,18**  **Lane,Berg,lberg,sociis@non.org,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,14**  **Raymond,Brennan,rbrennan,litora.torquent@pellentesquemassalobortis.ca,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,12**  **Emerald,Frost,efrost,adipiscing@acipsumPhasellus.edu,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,3**  **Althea,Hicks,ahicks,Phasellus.dapibus@luctusfelis.com,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,11**  **Zahir,King,zking,orci.Donec@ametmassaQuisque.com,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,15**  **Dylan,Nolan,dnolan,placerat.Cras.dictum@dictum.net,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,5**  **Rylee,Puckett,rpuckett,rpuckett@ncsu.edu,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,18**  **Cassandra,Schwartz,cschwartz,semper@imperdietornare.co.uk,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,4**  **Griffith,Stone,gstone,porta@magnamalesuadavel.net,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,17** |
| T20: New Student Directory | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12-T18 have run.  Click **New Student Directory** | An empty student directory is shown. | **An empty student directory is shown.** |
| T21: Add Student - first | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T20 has run.  Enter the following in the Student Information section:   * 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 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** | 13 courses are listed starting with CSC116-001 and ending with CSC316-001 | **13 courses are listed starting with CSC 116-001 and ending with CSC 316-001 as provided in the course\_records.txt file** |
| 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:   * Course Name: * Course Title: **Computer Organization and Assembly Language** * Course Section: **001** * Credits: **3** * Instructor Id: **lasher** * Start Time: **10:15 AM** * End Time: **11:30 AM** * Meeting Days: **Tuesday & Thursday**   Click **Add Course**  Click **OK** | Error Message: Invalid course name | **After T23 is passing**  **Entered the following in the Course Information section:**   * **Course Name:** * **Course Title: Computer Organization and Assembly Language** * **Course Section: 001** * **Credits: 3** * **Instructor Id: lasher** * **Start Time: 10:15 AM** * **End Time: 11:30 AM** * **Meeting Days: Tuesday & Thursday**   **Clicked on Add Course**  **Clicked OK**  **This gave an error message “Invalid course name.”** |
| T25: Add Invalid Course - no title | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section:   * Course Name: **CSC236** * Course Title: * Course Section: **001** * Credits: **3** * Instructor Id: **lasher** * Start Time: **10:15 AM** * End Time: **11:30 AM** * Meeting Days: **Tuesday & Thursday**   Click **Add Course**  Click **OK** | Error Message: Invalid course title | **After T23 is passing**  **Entered the following in the Course Information section:**   * **Course Name: CSC 236** * **Course Title:** * **Course Section: 001** * **Credits: 3** * **Instructor Id: lasher** * **Start Time: 10:15 AM** * **End Time: 11:30 AM** * **Meeting Days: Tuesday & Thursday**   **Clicked on Add Course**  **Clicked OK**  **This gave an error message “Invalid title.”** |
| T26: Add Invalid Course - no section | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section:   * Course Name: **CSC236** * Course Title: **Computer Organization and Assembly Language** * Course Section: * Credits: **3** * Instructor Id: **lasher** * Start Time: **10:15 AM** * End Time: **11:30 AM** * Meeting Days: **Tuesday & Thursday**   Click **Add Course**  Click **OK** | Error Message: Invalid section number | **After T23 is passing**  **Entered the following in the Course Information section:**   * **Course Name: CSC 236** * **Course Title: Computer Organization and Assembly Language** * **Course Section:** * **Credits: 3** * **Instructor Id: lasher** * **Start Time: 10:15 AM** * **End Time: 11:30 AM** * **Meeting Days: Tuesday & Thursday**   **Clicked on Add Course**  **Clicked OK**  **This gave an error message “Invalid section number”** |
| T27: Add Invalid Course - section too short | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section:   * Course Name: **CSC236** * Course Title: **Computer Organization and Assembly Language** * Course Section: **0011** * Credits: **3** * Instructor Id: **lasher** * Start Time: **10:15 AM** * End Time: **11:30 AM** * Meeting Days: **Tuesday & Thursday**   Click **Add Course**  Click **OK** | Error Message: Invalid section number | **After T23 is passing**  **Entered the following in the Course Information section:**   * **Course Name: CSC 236** * **Course Title: Computer Organization and Assembly Language** * **Course Section: 0011** * **Credits: 3** * **Instructor Id: lasher** * **Start Time: 10:15 AM** * **End Time: 11:30 AM** * **Meeting Days: Tuesday & Thursday**   **Clicked on Add Course**  **Clicked OK**  **This gave an error message “Invalid section.”** |
| T28: Add Invalid Course - section too long | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section:   * Course Name: **CSC236** * Course Title: **Computer Organization and Assembly Language** * Course Section: **01** * Credits: **3** * Instructor Id: **lasher** * Start Time: **10:15 AM** * End Time: **11:30 AM** * Meeting Days: **Tuesday & Thursday**   Click **Add Course**  Click **OK** | Error Message: Invalid section number | **After T23 is passing**  **Entered the following in the Course Information section:**   * **Course Name: CSC 236** * **Course Title: Computer Organization and Assembly Language** * **Course Section: 01** * **Credits: 3** * **Instructor Id: lasher** * **Start Time: 10:15 AM** * **End Time: 11:30 AM** * **Meeting Days: Tuesday & Thursday**   **Clicked on Add Course**  **Clicked OK**  **This gave an error message “Invalid section.”** |
| T29: Add Invalid Course - no instructor id | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section:   * Course Name: **CSC236** * Course Title: **Computer Organization and Assembly Language** * Course Section: **001** * Credits: **3** * Instructor Id: * Start Time: **10:15 AM** * End Time: **11:30 AM** * Meeting Days: **Tuesday & Thursday**   Click **Add Course**  Click **OK** | Error Message: Invalid instructor unity id | **After T23 is passing**  **Entered the following in the Course Information section:**   * **Course Name: CSC 236** * **Course Title: Computer Organization and Assembly Language** * **Course Section: 001** * **Credits: 3** * **Instructor Id:** * **Start Time: 10:15 AM** * **End Time: 11:30 AM** * **Meeting Days: Tuesday & Thursday**   **Clicked on Add Course**  **Clicked OK**  **This gave an error message “Invalid instructor id.”** |
| T30: Add Invalid Course - end time after start time | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section:   * Course Name: **CSC236** * Course Title: **Computer Organization and Assembly Language** * Course Section: **001** * Credits: **3** * Instructor Id: **lasher** * Start Time: **11:30 AM** * End Time: **10:15 AM** * Meeting Days: **Tuesday & Thursday**   Click **Add Course**  Click **OK** | Error Message: Invalid meeting times | **After T23 is passing**  **Entered the following in the Course Information section:**   * **Course Name: CSC 236** * **Course Title: Computer Organization and Assembly Language** * **Course Section: 001** * **Credits: 3** * **Instructor Id: lasher** * **Start Time: 11:30 AM** * **End Time: 10:15 AM** * **Meeting Days: Tuesday & Thursday**   **Clicked on Add Course**  **Clicked OK**  **This gave an error message “Invalid meeting days and times.”** |
| T31: Add Invalid Course - no meeting days | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section:   * Course Name: **CSC236** * Course Title: **Computer Organization and Assembly Language** * Course Section: **001** * Credits: **3** * Instructor Id: **lasher** * Start Time: **10:15 AM** * End Time: **11:30 AM** * Meeting Days:   Click **Add Course**  Click **OK** | Error Message: Invalid meeting days | **After T23 is passing**  **Entered the following in the Course Information section:**   * **Course Name: CSC 236** * **Course Title: Computer Organization and Assembly Language** * **Course Section: 001** * **Credits: 3** * **Instructor Id: lasher** * **Start Time: 10:15 AM** * **End Time: 11:30 AM** * **Meeting Days:**   **Clicked on Add Course**  **Clicked OK**  **This gave an error message “Invalid meeting days and times.”** |
| T32: Add Course - end | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section:   * Course Name: **CSC236** * Course Title: **Computer Organization and Assembly Language** * Course Section: **001** * Credits: **3** * Instructor Id: **lasher** * Start Time: **10:15 AM** * End Time: **11:30 AM** * Meeting Days: **Tuesday & Thursday**   Click **Add Course**  Click **OK** | CSC236-001 is added to the list between CSC230-001 and CSC316-001 | **After T23 is passing**  **Entered the following in the Course Information section:**   * **Course Name: CSC 236** * **Course Title: Computer Organization and Assembly Language** * **Course Section: 001** * **Credits: 3** * **Instructor Id: lasher** * **Start Time: 10:15 AM** * **End Time: 11:30 AM** * **Meeting Days: Tuesday & Thursday**   **Clicked on Add Course**  **Clicked OK**  **CSC 236-001 is added to the list between CSC 230-001 and CSC 316-001** |
| T33: Add Course - front | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section:   * Course Name: **CSC113** * Course Title: **Introduction to Computer - MATLAB** * Course Section: **001** * Credits: **3** * Instructor Id: **tbdimitr** * Start Time: **3:00 PM** * End Time: **3:50 PM** * Meeting Days: **Monday & Wednesday**   Click **Add Course**  Click **OK** | CSC113-001 is added to the list at the front and is followed by CSC116-001. | **After T23 is passing**  **Entered the following in the Course Information section:**   * **Course Name: CSC 113** * **Course Title: Introduction to Computer - MATLAB** * **Course Section: 001** * **Credits: 3** * **Instructor Id: tbdimitr** * **Start Time: 3:00 PM** * **End Time: 3:50 PM** * **Meeting Days: Monday & Wednesday Clicked on Add Course**   **Click OK CSC 113-001 is added to the list at the front and is followed by CSC 116-001.** |
| T34: Add Course - middle | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.  Enter the following in the Course Information section:   * Course Name: **CSC116** * Course Title: **Introduction to Programming - Java** * Course Section: **006** * Credits: **3** * Instructor Id: **jdyoung2** * Start Time: **10:40 AM** * End Time: **12:30 PM** * Meeting Days: **Tuesday & Thursday**   Click **Add Course**  Click **OK** | CSC116-006 is added to the list between CSC116-003 and CSC216-001. | **After T23 is passing**  **Entered the following in the Course Information section:**   * **Course Name: CSC 116** * **Course Title: Introduction to Programming - Java** * **Course Section: 006** * **Credits: 3** * **Instructor Id: jdyoung2** * **Start Time: 10:40 AM** * **End Time: 12:30 PM** * **Meeting Days: Tuesday & Thursday**   **Clicked Add Course**  **Clicked OK**  **CSC 116-006 is added to the list between CSC 116-003 and CSC 216-001.** |
| T35: Remove Course - no selection | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).  Click **Remove Course** | Error Message: No course selected | **Error Message: No course selected.** |
| T36: Remove Course - middle | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).  Select **CSC216-001**  Click **Remove Course** | CSC216-001 is removed. CSC116-006 is followed by CSC216-002. | **CSC 216-001 is removed. CSC 116-006 is followed by CSC 216-002.** |
| T37: Remove Course - front | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T33 has run.  Select **CSC113-001**  Click **Remove Course** | CSC113-001 is removed. CSC116-001 is the first course in the catalog | **CSC 113-001 is removed. CSC 116-001 is the first course in the catalog** |
| T38: Remove Course - back | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T32 has run.  Select **CSC236-001**  Click **Remove Course** | CSC236-001 is removed.  CSC316-001 is the last course in the catalog | **CSC 236-001 is removed.**  **CSC 316-001 is the last course in the catalog** |
| T39: Save Course Catalog | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T32-T38 have run.  Click **Save Course Catalog**  Select **test-files** directory and name the file **t39\_course\_catalog.txt**. | Contents should be:  CSC116,Intro to Programming - Java,001,3,jdyoung2,MW,910,1100  CSC116,Intro to Programming - Java,002,3,spbalik,MW,1120,1310  CSC116,Intro to Programming - Java,003,3,tbdimitr,TH,1120,1310  CSC116,Introduction to Programming - Java,006,3,jdyoung2,TH,1040,1230  CSC216,Software Development Fundamentals,002,3,ixdoming,MW,1330,1445  CSC216,Software Development Fundamentals,601,3,jctetter,A  CSC217,Software Development Fundamentals Lab,202,1,sesmith5,M,1040,1230  CSC217,Software Development Fundamentals Lab,211,1,sesmith5,T,830,1020  CSC217,Software Development Fundamentals Lab,223,1,sesmith5,W,1500,1650  CSC217,Software Development Fundamentals Lab,601,1,sesmith5,A  CSC226,Discrete Mathematics for Computer Scientists,001,3,tmbarnes,MWF,935,1025  CSC230,C and Software Tools,001,3,dbsturgi,MW,1145,1300  CSC316,Data Structures and Algorithms,001,3,jtking,MW,830,945 | **The t39\_course\_catalog.txt in the test-files directory contains the following:**  **CSC 116,Intro to Programming - Java,001,3,jdyoung2,MW,910,1100**  **CSC 116,Intro to Programming - Java,002,3,spbalik,MW,1120,1310**  **CSC 116,Intro to Programming - Java,003,3,tbdimitr,TH,1120,1310**  **CSC 116,Intro to Programming - Java,006,3,jdyoung2,TH,1040,1230**  **CSC 216,Software Development Fundamentals,002,3,ixdoming,MW,1330,1445**  **CSC 216,Software Development Fundamentals,601,3,jctetter,A**  **CSC 217,Software Development Fundamentals Lab,202,1,sesmith5,M,1040,1230**  **CSC 217,Software Development Fundamentals Lab,211,1,sesmith5,T,830,1020**  **CSC 217,Software Development Fundamentals Lab,223,1,sesmith5,W,1500,1650**  **CSC 217,Software Development Fundamentals Lab,601,1,sesmith5,A**  **CSC 226,Discrete Mathematics for Computer Scientists,001,3,tmbarnes,MWF,935,1025**  **CSC 230,C and Software Tools,001,3,dbsturgi,MW,1145,1300**  **CSC 316,Data Structures and Algorithms,001,3,jtking,MW,830,945** |
| 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 after clicking New Course Catalog** |
| T41: Add Course - first | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T20 has run.  Enter the following in the Course Information section:   * Course Name: **CSC216** * Course Title: **Programming Concepts - Java** * Course Section: **601** * Credits: **4** * Instructor Id: **jctetter** * Start Time: * End Time: * Meeting Days: **Arranged**   Click **Add Course**  Click **OK** | CSC216-601 is added to the list | **After T20 is passing   Adding the following course details:**   * **Course Name: CSC 216** * **Course Title: Programming Concepts - Java** * **Course Section: 601** * **Credits: 4** * **Instructor Id: jep** * **Start Time: 0** * **End Time: 0** * **Meeting Days: Arranged**   **Clicked Add Course**  **Clicked OK CSC 216-601 is added to the list** |
| T42: Logout | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).  Click **Logout** | User is returned to the Login view | **User is returned to the Login view** |
| T42: Login Student | Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T21 and T42 have run.  User ID: **pwilkins**  Password: **pw**  Click: **Login** | pwilkins is logged in and is switched to the user view. They see the catalog and an empty schedule | **User is returned to the Login view**  **pwilkins is logged in and is switched to the user view. All that is shown is a Logout button.** |