Lab 02: Black Box Test Plan

Test Overview

To run the tests:

- 1. Right click on StudentDirectoryPanel class in the Package Explorer.
- 2. Select Run As > Java Application

The FileChooser for the course catalog will load automatically.

All tests files are located in the test-files/ folder.

| Test ID | Description | Expected Results | Actual Results |
|--------------------|--|--|---|
| <test 1=""></test> | Preconditions: None | Scheduler shows sorted list of students with first name last | Scheduler shows list of students with first name last |
| Opening | Run student directory gui select load | name and student id | name and student id |
| valid file | student directory. | Demetrius, Austin, daustin, | Demetrius, Austin, daustin, |
| | , | Lane,Berg,lberg, | Lane,Berg,lberg, |
| | In the Load Course Catalog FileChooser | Raymond,Brennan,rbrennan, | Raymond,Brennan,rbrennan, |
| | dialog select: | Emerald,Frost,efrost, | Emerald,Frost,efrost, |
| | test-files/student records.txt | Shannon, Hansen, shansen, | Shannon, Hansen, shansen, |
| | _ | Althea, Hicks, ahicks, | Althea, Hicks, ahicks, |
| | Click Select | Zahir,King,zking, | Zahir,King,zking, |
| | | Dylan, Nolan, dnolan, | Dylan, Nolan, dnolan, |
| | | Cassandra, Schwartz, cschwartz, | Cassandra, Schwartz, cschwartz |
| | | Griffith,Stone,gstone, | , |

| | | | Griffith,Stone,gstone, |
|---|--|---|---|
| Test 2: | Preconditions: None | Scheduler loads | Scheduler loads |
| File *modified | Run studentDirectoryPanel gui select load student directory | Student Catalog is empty | Student Catalog is empty |
| previous version said "valid" when it | 2. In the Load Course Catalog FileChooser dialog select: test-files/invalid_student_records.txt | Student info is empty | Student info is empty |
| should have | 3. Click Select | | |
| been "invalid" | 4. Check results5. Close GUI | | |
| Test 3 Remove a student | Preconditions: Test one has passed • Select the student "Zahir King zking" (should be highlighted in blue) • Select "Remove Student" | Student is removed from the Student directory list | Student is removed from the Student directory list |
| Test 4 Clear student directory | Preconditions: Test one has passed • Select "new student directory" | Student directory is cleared | Student directory is cleared |
| Test 5 Valid student | Preconditions: Test one has passed Type info into Student information First name: sarah Last name: worley | The student Sarah Worley with id of sworley is added in the student directory section | The student Sarah Worley with id of sworley is added in the student directory section |

| | Id: sworley Email: sw@ncsu.edu Password: pw Repeat password: pw Credits: 12 Select "add student" | | |
|--|--|--|--|
| Test 6 Invalid student credits | Preconditions: Test one has passed Type info into Student information First name: bob Last name: smith Id: bsmith Email: bs@ncsu.edu Password: pw Repeat password: pw Credits: 19 Select "add student" | When add student is selected a pop up box stating "invalid max credits" is displayed | When add student is selected a pop up box stating "invalid max credits" is displayed |
| Test 7 No credits entered * modified llast test said 2 instead of 3 | Preconditions: Test one has passed Type info into Student information First name: bob Last name: smith Id: bsmith Email: bs@ncsu.edu Password: pw Repeat password: pw Credits: LEAVE BLANK Select "add student" | A pop up appears stating "Max credits should be a number between 3 and 18" | A pop up should appear stating "Max credits should be a number between 3 and 18" |

| Test 8 missmatc hed password s | Preconditions: Test one has passed Type info into Student information First name: bob Last name: smith Id: bsmith Email: bs@ncsu.edu Password: password Repeat password: pw Credits: 15 Select "add student" | A pop up appears that states "passwords do not match" | A pop up appears that states "passwords do not match" |
|--|---|---|---|
| Test 9 Invalid email, no '@' | Preconditions: Test one has passed Type info into Student information First name: bob Last name: smith Id: bsmith Email: bs.ncsu.edu Password: pw Repeat password: pw Credits: 15 Select "add student" | A pop up appears that states "invalid email" | A pop up appears that states "invalid email" |
| Test 10 invalid email no | Preconditions: Test one has passed Type info into Student information First name: bob Last name: smith Id: bsmith Email: bs@ncsuedu Password: pw Repeat password: pw Credits: 15 | A pop up appears that states "invalid email" | A pop up appears that states "invalid email" |

| | • | Select "add student" | | |
|--|--------|--|--|--|
| Test 11 invalid email '.' before '@' | Precor | Type info into Student information First name: bob Last name: smith Id: bsmith Email: b.s@ncsuedu Password: pw Repeat password: pw Credits: 15 Select "add student" | A pop up appears that states "invalid email" | A pop up appears that states "invalid email" |
| Test 12 attempts to add student with same id as another student but different name | Precor | Type info into Student information First name: bob Last name: smith Id: sworley Email: bs@ncsu.edu Password: pw Repeat password: pw Credits: 15 Select "add student" | A pop up appears that states "student already exists in the system" | A pop up appears that states "student already exists in the system" |
| Test 13 Saving students to a directory | Precor | Type info into Student information First name : bob Last name: smith Id: bsmith Email: bs@ncsu.edu Password: pw | Bob is added above sarah also A pop up stating "No student Selected" appears | Bob is added above sarah also A pop up stating "No student Selected" appears |

| | Repeat password: pw Credits: 15 Select "add student" Make sure no student is selected Select "Remove student" | | |
|--------------------------|---|--|--|
| Test 14 Empty name | Preconditions: Test one and three have passed Type info into Student information First name: LEAVE BLANK Last name: smith Id: bsmith Email: bs@ncsu.edu Password: pw Repeat password: pw Credits: 15 | A pop up stating "Invalid First Name" appears | A pop up stating "Invalid First Name" appears |
| Test 15 | Preconditions: Test one, three and 13 have passed • Select "Save Student Directory" • Save the directory under "test-files" as "studentSorted.txt" | A dialog appears and the user selects the location to save the list of students. the list of students is saved to a text file With a comma separating student info and hashed passwords Bob is before sarah | A dialog appears and the user selects the location to save the list of students. the list of students is saved to a text file With a comma separating student info and hashed passwords Bob is before sarah |