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 list of students with first name last	Scheduler shows list of students with first name last
Opening valid file	Run student directory gui.	name and student id -Zahir King zking	name and student id -Zahir King zking
	 In the Load Course Catalog FileChooser dialog select: test-files/student records.txt 	-Cassandra Schwartz cschwartz -Shannon Hansen shansen	-Cassandra Schwartz cschwartz -Shannon Hansen shansen
	Click Select	-Demetrius Austin daustin -Raymond Brennan rbrennan - Emerald Frost efrost	-Demetrius Austin daustin -Raymond Brennan rbrennan - Emerald Frost efrost
		- Emeraid Frost effost -Lane Berg Iberg -Griffith Stone gstone - Althea Hicks ahicks	-Lane Berg Iberg -Griffith Stone gstone - Althea Hicks ahicks

		- Dylan Nolan dnolan	- Dylan Nolan dnolan
Test 2: Invalid File	Preconditions: None 1. Run studentDirectoryPanel gui 2. In the Load Course Catalog FileChooser dialog select: test-files/valid_student_record s.txt 3. Click Select 4. Check results 5. Close GUI	Scheduler loads Student Catalog is empty Student info is empty	Scheduler loads Student Catalog is empty Student info is empty
Test 3 Remove a student	Preconditions: Test one has passed • Select the first 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 Id: sworley Email: sw@ncsu.edu	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

	 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	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 2 and 18"	A pop up should appear stating "Max credits should be a number between 2 and 18"
Test 8	Preconditions: Test one has passed	A pop up appears that states	A pop up appears that states

missmatc hed password s	 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" 	"passwords do not match"	"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 Select "add student"	A pop up appears that states "invalid email"	A pop up appears that states "invalid email"

Test 11 invalid email '.' before '@'	Preconditions: Test one has passed 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	Preconditions: Test one and three have passed 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	Preconditions: Test one and three have 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	A pop up stating "No student Selected" appears	A pop up stating "No student Selected" appears

	 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 "student.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	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