# Lab 02: System Test Plan

## Test Overview

Run through the tests one at a time. If the test has a precondition, run through the precondition tests first then the actual test case.

.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| testExitGUI  tests users ability to close out of the program  Author: Cole Sanders | Preconditions: None   1. Run StudentDirectoryPanel 2. Check results 3. Click the X in the top right corner 4. Check resultus | GUI closes | **GUI exits out** |
| testLoadValidFile  tests loading a valid student file  Author: Cole Sanders | Preconditions: None   1. Run StudentDirectoryPanel 2. Click Load Student Directory 3. Browse to test-files/student\_records.txt 4. Check results 5. Close GUI | Student Directory populates:  Demetrius Austin daustin  Lane Berg lberg  Raymond Brennan rbrennan  Emerald Frost efrost  Shannon Hansen shansen  Althea Hicks ahicks  Zahir King zking  Dylan Nolan dnolan  Cassandra Schwartz cschwartz  Griffith Stone gstone | **Student directory fills with students first names, last names, and IDs:**  **Demetrius Austin daustin**  **Lane Berg lberg**  **Raymond Brennan rbrennan**  **Emerald Frost efrost**  **Shannon Hansen shansen**  **Althea Hicks ahicks**  **Zahir King zking**  **Dylan Nolan dnolan**  **Cassandra Schwartz cschwartz**  **Griffith Stone gstone** |
| testNewDirectory  tests creating a new student directory on top of an old one  Author: Cole Sanders | Preconditions: Test 2 passes   1. Click New Student Directory 2. Check results 3. Close GUI | Student Directory is empty | **There are no students in student directory** |
| testLoadInvalidFile  tests loading an invalid student file  Author: Cole Sanders | Preconditions: None   1. Run StudentDirectoryPanel 2. Click Load Student Directory 3. Browse to test-files/invalid\_student\_records.txt 4. Check results 5. Close GUI | Student Directory is empty | **There are no students in student directory** |
| testLoadNonExistantFile  tests loading a file that doesn’t exist  Author: Cole Sanders | Preconditions: None   1. Run StudentDirectoryPanel 2. Click Load Student Directory 3. Type in file name no\_such\_file.txt 4. Click select 5. Check results 6. Close GUI | Pop up dialog appears with the message: “Unable to read file “Root file system\no\_such\_file.txt”” | **Pop-up appeared stating: “Unable to read file C:\Users\cgsan\git\csc217-L-231-26\PackScheduler\no\_such\_file.txt”** |
| testSaveValidStudentRecords  tests saving valid student records to a valid file  Author: Cole Sanders | Preconditions: Test 2 passes   1. Click Save Student Records 2. Browse to test-files/actual\_student\_records.txt 3. Check results | Actual\_student\_records.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  Shannon,Hansen,shansen,convallis.est.vitae@arcu.ca,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,14  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  Cassandra,Schwartz,cschwartz,semper@imperdietornare.co.uk,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,4  Griffith,Stone,gstone,porta@magnamalesuadavel.net,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,17 | **Actual\_student\_records.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**  **Shannon,Hansen,shansen,convallis.est.vitae@arcu.ca,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,14**  **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**  **Cassandra,Schwartz,cschwartz,semper@imperdietornare.co.uk,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,4**  **Griffith,Stone,gstone,porta@magnamalesuadavel.net,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,17** |
| testAddValidStudent  tests adding a student with valid information fields  Author: Cole Sanders | Preconditions: None   1. Run StudentDirectoryPanel 2. Populate the student information fields   First Name = Jim  Last Name = Sanders  ID = jsande2  Email = [jsande2@ncsu.edu](mailto:jsande2@ncsu.edu)  Password = Manta  Repeat Password = Manta  Max Credits = 12   1. Click add student 2. Check results | Student is created and displayed in Student Directory:  Jim Sanders jsande2 | **Student Directory has one student:**  **Jim Sanders jsande2** |
| testAddNoEmail  tests adding a student with an empty email field  Author: Cole Sanders | Preconditions: None   1. Run StudentDirectoryPanel 2. Populate the student information fields   First Name = Jim  Last Name = Sanders  ID = jsande2  Email =  Password = Manta  Repeat Password = Manta  Max Credits = 12   1. Click add student 2. Check results | Pop up dialog appears with the message: “Invalid email” | **Pop-up appeared stating: “Invalid email”** |
| testAddNoLastName  tests adding a student with an invalid last name field  Author: Cole Sanders | Preconditions: None   1. Run StudentDirectoryPanel 2. Populate the student information fields   First Name = Jim  Last Name =  ID = jsande2  Email = [jsande2@ncsu.edu](mailto:jsande2@ncsu.edu)  Password = Manta  Repeat Password = Manta  Max Credits = 18   1. Click add student 2. Check results | Pop up dialog appears with the message: “Invalid last name” | **Pop-up appeared stating: “Invalid last name”** |
| testAddNoFirstName  tests adding a student with an invalid fist name field  Author: Cole Sanders | Preconditions: None   1. Run StudentDirectoryPanel 2. Populate the student information fields   First Name =  Last Name = Sanders  ID = jsande2  Email = [jsande2@ncsu.edu](mailto:jsande2@ncsu.edu)  Password = Manta  Repeat Password = Manta  Max Credits = 14   1. Click add student 2. Check results | Pop up dialog appears with the message: “Invalid first name” | **Pop-up appeared stating: “Invalid first name”** |
| testAddInvalidId  tests adding a student with an invalid ID  Author: Cole Sanders | Preconditions: None   1. Run StudentDirectoryPanel 2. Populate the student information fields   First Name = Jim  Last Name = Sanders  ID =  Email = [jsande2@ncsu.edu](mailto:jsande2@ncsu.edu)  Password = Manta  Repeat Password = Manta  Max Credits = 12   1. Click add student 2. Check results | Pop up dialog appears with the message: “Invalid id” | **Pop-up appeared stating: “Invalid id”** |
| testAddInvalidEmail  test adding a student with no “.” In their email  Author: Cole Sanders | Preconditions: None   1. Run StudentDirectoryPanel 2. Populate the student information fields   First Name = Jim  Last Name = Sanders  ID = jsande2  Email = [jsande2@ncsu@edu](mailto:jsande2@ncsu.edu)  Password = Manta  Repeat Password = Manta  Max Credits = 12   1. Click add student 2. Check results | Pop up dialog appears with the message: “Invalid email” | **Pop-up appeared stating: “Invalid email”** |
| testAddInvalidPassword  test adding a student with an empty password field  Author: Cole Sanders | Preconditions: None   1. Run StudentDirectoryPanel 2. Populate the student information fields   First Name = Jim  Last Name = Sanders  ID = jsande2  Email = [jsande2@ncsu.edu](mailto:jsande2@ncsu.edu)  Password =  Repeat Password = Manta  Max Credits = 12   1. Click add student 2. Check results | Pop up dialog appears with the message: “Invalid password” | **Pop-up appeared stating: “Invalid password”** |
| testAddDifferentPasswords  tests adding a student with two different password fields  Author: Cole Sanders | Preconditions: None   1. Run StudentDirectoryPanel 2. Populate the student information fields   First Name = Jim  Last Name = Sanders  ID = jsande2  Email = [jsande2@ncsu.edu](mailto:jsande2@ncsu.edu)  Password = Manta1  Repeat Password = Manta2  Max Credits = 12   1. Click add student 2. Check results | Pop up dialog appears with the message: “Passwords do not match” | **Pop-up appeared stating: “Passwords do not match”** |
| testRemoveValidStudent  test removing a student from student directory  Author: Cole Sanders | Preconditions: Test 7 Passed   1. Select Jim 2. Click remove student 3. Check results | Student Directory is empty | **There is nothing in student directory** |