# Lab 02: System Test Plan

## Test Overview

A tester should begin every test by running StudentDirectoryPanel as a Java application in Eclipse. Only record the results shown on the screen as prompted by the test description. After every test, close the application to ensure the next test is started from scratch.

|  |  |  |  |
| --- | --- | --- | --- |
| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| Test 1:  Loading Valid File | Preconditions:   1. Select **Load Student Directory** 2. From the test-files folder, select **actual\_student\_records.txt** 3. Click **Select** 4. Record results 5. Close application | The Student Directory section displays Zahir, King, zking | The Student Directory section displays Zahir, King, zking |
| Test 2:  Loading Invalid File | Preconditions:   1. Select **Load Student Directory** 2. From the test-files folder, select **invalid\_student\_records.txt** 3. Click **Select** 4. Record results 5. Close application | The Student Directory section remains empty | The Student Directory section remains empty |
| Test 3:  Loading Missing File | Preconditions:   1. Select **Load Student Directory** 2. In the test-files folder, in the **File Name:** field, enter any file name that does not appear in test-files, (Example: **missing\_file.txt.**) 3. Click **Select** 4. Record results 5. Close application | A pop up displays: “Unable to read file” + file path | A pop up displays: “Unable to read file” + file path |
| Test 4:  Add New Student Directory | Preconditions:   1. Select **Load Student Directory** 2. From the test-files folder, select **actual\_student\_records.txt** 3. Click **Select** 4. Record results 5. Select **New Student Directory** 6. Record results 7. Close application | The Student Directory section displays Zahir, King, zking  The Student Directory section is now empty | The Student Directory section displays Zahir, King, zking  The Student Directory section is now empty |
| Test 5:  Add New Student to Existing Directory | Preconditions:   1. Select **Load Student Directory** 2. From the test-files folder, select **actual\_student\_records.txt** 3. Click **Select** 4. Record results 5. In the Student Information section, add the following information:    1. First Name: **Joe**    2. Last Name: **Schmoe**    3. ID: **jschmoe**    4. Email: **jschmoe@ncsu.edu**    5. Password: **password**    6. Repeat Password: **password**    7. Max Credits: **15** 6. Select **Add Student** 7. Record results 8. Close application | The Student Directory section displays Zahir, King, zking  The Student Directory section displays the following information:   * Zahir, King, zking * Joe, Schmoe, jschmo | The Student Directory section displays Zahir, King, zking  The Student Directory section displays the following information:   * Zahir, King, zking * Joe, Schmoe, jschmo |
| Test 6:  Invalid Student First Name | Preconditions:   1. In the Student Information section, add the following information:    1. First Name:    2. Last Name: **Schmoe**    3. ID: **jschmoe**    4. Email: **jschmoe@ncsu.edu**    5. Password: **password**    6. Repeat Password: **password**    7. Max Credits: **15** 2. Select **Add Student** 3. Record results 4. Close application | A pop up displays “Invalid first name” | A pop up displays “Invalid first name” |
| Test 7:  Invalid Email Missing @ | Preconditions:   1. In the Student Information section, add the following information:    1. First Name: **Joe**    2. Last Name: **Schmoe**    3. ID: **jschmoe**    4. Email: **jschmoe.ncsu.edu**    5. Password: **password**    6. Repeat Password: **password**    7. Max Credits: **15** 2. Select **Add Student** 3. Record results 4. Close application | A pop up displays: “Invalid email” | A pop up displays: “Invalid email” |
| Test 8:  Invalid Email Period Index | Preconditions:   1. In the Student Information section, add the following information:    1. First Name: **Joe**    2. Last Name: **Schmoe**    3. ID: **jschmoe**    4. Email: **j.schmoe@ncsuedu**    5. Password: **password**    6. Repeat Password: **password**    7. Max Credits: **15** 2. Select **Add Student** 3. Record results 4. Close application | A pop up displays: “Invalid email” | A pop up displays: “Invalid email” |
| Test 9:  Duplicate Student | Preconditions:   1. Select **Load Student Directory** 2. From the test-files folder, select **actual\_student\_records.txt** 3. Click **Select** 4. Record results 5. In the Student Information section, add the following information:    1. First Name: **Zahir**    2. Last Name: **King**    3. ID: **zking**    4. Email: **orci.Donec@ametmassaQuisque.com**    5. Password: **password**    6. Repeat Password: **password**    7. Max Credits: **15** 6. Select **Add Student** 7. Record results 8. Close application | A pop up displays: “Student already in system.” | A pop up displays: “Student already in system.” |
| Test 10:  Add Null Student | Preconditions:   1. Select **Add Student** 2. Record results 3. Close application | A pop up displays “Invalid password” | A pop up displays “Invalid password” |
| Test 11:  Remove Student From Directory | Preconditions:   1. Select **Load Student Directory** 2. From the test-files folder, select **actual\_student\_records.txt** 3. Click **Select** 4. Record results 5. Select the first row in the Student Directory section (Zahir, King, zking) 6. Select **Remove Student** 7. Record results 8. Close application | The Student Section displays: Zahir, King, zking  The Student Section is now empty | The Student Section displays: Zahir, King, zking  The Student Section is now empty |
| Test 12:  Remove Multiple Students From Directory | Preconditions:   1. Select **Load Student Directory** 2. From the test-files folder, select **extra\_student\_records.txt** 3. Click **Select** 4. Select the first row in the Student Directory section (Demetrius, Austin, daustin) 5. Select **Remove Student** 6. Select the third row in the Student Directory section (Emerald, Frost, efrost) 7. Select **Remove Student** 8. Select the fourth row in the Student Directory section (Althea, Hicks, ahicks) 9. Select **Remove Student** 10. Record results 11. Close application | The Student Directory section displays the following information:   * Lane, Berg, lberg * Raymond, Brennan, rbrennan * Shannon, Hansen, shansen * Zahir, King, zking * Dylan, Nolan, dnolan * Cassandra, Schwartz, cschwartz * Griffith, Stone, gstone | The Student Directory section displays the following information:   * Lane, Berg, lberg * Raymond, Brennan, rbrennan * Shannon, Hansen, shansen * Zahir, King, zking * Dylan, Nolan, dnolan * Cassandra, Schwartz, cschwartz * Griffith, Stone, gstone |
| Test 13:  Remove Null Student | Preconditions:   1. Make sure there is nothing selected in the Student Directory section 2. Select **Remove Student** 3. Record results 4. Close application | A pop up displays: “No student selected.” | A pop up displays: “No student selected.” |
| Test 14:  Save New Student Directory | Preconditions:   1. Select **Load Student Directory** 2. From the test-files folder, select **extra\_student\_records.txt** 3. Click **Select** 4. Select the first row in the Student Directory section (Demetrius, Austin, daustin) 5. Select **Remove Student** 6. Select **Save Student Directory** 7. In the test-files folder, in the **File Name:** field, enter any file name that does not appear in test-files, (Example: **new\_student\_record.txt.**) 8. Select **Save** 9. Close application 10. In Eclipse, refresh the test-files folder 11. In the test-files folder, open the new student directory file 12. Record results | The new student directory file contains the following information:   * 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 | The new student directory file contains the following information:   * 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 |
| Test 15:  Save Invalid File | Preconditions:   1. Select **Load Student Directory** 2. From the test-files folder, select **extra\_student\_records.txt** 3. Click **Select** 4. Select the first row in the Student Directory section (Demetrius, Austin, daustin) 5. Select **Remove Student** 6. Select **Save Student Directory** 7. In the test-files folder, in the **File Name:** field, enter “**!@#$%/\-**“ 8. Select **Save** 9. Record results 10. Close application | A pop up displays: “Unable to write to file” + file path | A pop up displays: “Unable to write to file” + file path |