# Lab 02: System Test Plan

## Test Overview

**Files used in the tests**

course\_records.txt:

Zahir,King,zking,orci.Donec@ametmassaQuisque.com,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,15

Cassandra,Schwartz,cschwartz,semper@imperdietornare.co.uk,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,4

Shannon,Hansen,shansen,convallis.est.vitae@arcu.ca,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,14

Demetrius,Austin,daustin,Curabitur.egestas.nunc@placeratorcilacus.co.uk,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,18

Raymond,Brennan,rbrennan,litora.torquent@pellentesquemassalobortis.ca,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,12

Emerald,Frost,efrost,adipiscing@acipsumPhasellus.edu,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,3

Lane,Berg,lberg,sociis@non.org,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,14

Griffith,Stone,gstone,porta@magnamalesuadavel.net,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,17

Althea,Hicks,ahicks,Phasellus.dapibus@luctusfelis.com,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,11

Dylan,Nolan,dnolan,placerat.Cras.dictum@dictum.net,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,5

Invalid\_course\_records.txt:

King,zking,orci.Donec@ametmassaQuisque.com,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,15

Zahir,,zking,orci.Donec@ametmassaQuisque.com,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,15

Zahir,King,orci.Donec@ametmassaQuisque.com,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,15

Zahir,King,zking,orci.Donec@ametmassaQuisquecom,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,15

Zahir,King,zking,orci.Donec@ametmassaQuisque.com,15

Zahir,King,zking,orci.Donec@ametmassaQuisque.com,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,-1

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| Test 1: Load Student Directory Invalid Courses | Preconditions: None   1. Run StudentDirectoryPanel 2. Click **Load Student Directory** and load the file invalid\_course\_records.txt in test-files/ 3. *Check Results* 4. Close GUI | Student Directory table is empty. | Student Directory table is empty. |
| Test 2: Load Student Directory Nonexistent file | Preconditions: None   1. Run StudentDirectoryPanel 2. Click **Load Student Directory** and type “nonexistent.txt” and load file 3. *Check Results* 4. Click OK 5. Close GUI | A dialog should pop up and read “Unable to read file (source path)/nonexistent.txt”. | A dialog should pop up and read “Unable to read file C:\Users\Sahil Kanchan\.git\csc217-LR1-223-02\PackScheduler\test-files\nonexistent.txt”. |
| Test 3: Load Student Directory Valid Course Records | Preconditions: None   1. Run StudentDirectoryPanel 2. Click **Load Student Directory** and load the file course\_records.txt in test-files/ 3. *Check Results* 4. Close GUI | Student Directory table loads all the student records from course\_records.txt. Should be displayed in the same order as the file.  First name, last name, id, email, hashedPw, max credits | Student Directory table loads all the student records from course\_records.txt and is displayed in the same order as the file  First name, last name, id, email, hashedPw, max credits |
| Test 4: New Student Directory | Preconditions: Test 3 passed   1. Click **New Student Directory** 2. *Check Results* 3. Close GUI | Student Directory table should be empty. | Student Directory table is empty |
| Test 5: Add New Student Empty Fields | Preconditions: Test 3 passed   1. Click **Add Student** 2. *Check Results* 3. Click OK 4. Close GUI | A pop up dialog box says “Invalid password” | A pop up dialog box says “Invalid password” |
| Test 6: Add New Student Mismatch Passwords | Preconditions: Test 3 passed   1. Type “John” in First Name box, “Byers” in Last Name box, “jbyer5” in ID, [jbyer5@ncsu.edu](mailto:jbyer5@ncsu.edu) in Email, “Password123” in Password, “password123” in Repeat Password, 16 in max credits 2. *Check Results* 3. Click OK 4. Close GUI | A pop up dialog box says “Passwords do not match” | A pop up dialog box says “Passwords do not match” |
| Test 7: Add New Student | Preconditions: Test 3 passed   1. Type “John” in First Name box, “Byers” in Last Name box, “jbyer5” in ID, [jbyer5@ncsu.edu](mailto:jbyer5@ncsu.edu) in Email, “Password123” in Password, “Password123” in Repeat Password, 16 in max credits 2. *Check Results* 3. Close GUI | Student Directory table is updated with new student with the first name: John, last name: Byers, and student id: jbyer5 | Student Directory table has new student with the first name: John, last name: Byers, and student id: jbyer5 |
| Test 8: Add New Student Same Student | Preconditions: Test 3 and 7 passed   1. Type “John” in First Name box, “Byers” in Last Name box, “jbyer5” in ID, [jbyer5@ncsu.edu](mailto:jbyer5@ncsu.edu) in Email, “Password123” in Password, “Password123” in Repeat Password, 16 in max credits 2. *Check Results* 3. Click OK 4. Close GUI | A pop up dialog box says “Student already in system.” | A pop up dialog box says “Student already in system.” |
| Test 9: Remove Student No Selection | Preconditions: Test 3 and 7 passed   1. Make sure no student is selected in Student Directory Table 2. Click **Remove Student** 3. *Check Results* 4. Click OK 5. Close GUI | A pop up dialog box says “No student selected.”  John Byers still shows up on student directory | A pop up dialog box says “No student selected.”  John Byers jbyer5 is still in the student directory |
| Test 10: Remove Student | Preconditions: Test 3 and 7 passed   1. Select the first row in Student Directory table 2. Click **Remove Student** 3. *Check Results* 4. Close GUI | John Byers is removed from the table. Student Directory should be empty. | John Byers was removed from the table. Student Directory is empty. |
| Test 11: Save Student Directory | Preconditions: Test 3 passed   1. Click **Load Student Directory** and load the file course\_records.txt in test-files/ 2. *Check Results* 3. Click **Save Student Directory** as new\_student\_records.txt in test-files/ 4. *Check Results* 5. Close GUI | Student Directory table loads all the student records from course\_records.txt. Should be displayed in the same order as the file - First name, last name, id, email, hashedPw, max credits.  New Student Directory table should be same as course\_records.txt since no changes were made to file when saved | Student Directory table loads all the student records from course\_records.txt. Should be displayed in the same order as the file - First name, last name, id, email, hashedPw, max credits.  New Student Directory table is same as course\_records.txt since no changes were made to file when saved |
| Test 12: Add Student Invalid First Name | Preconditions: Test 3 and 7 passed   1. Click **New Student Directory** 2. Type nothing in First Name box, “Byers” in Last Name box, “jbyer5” in ID, [jbyer5@ncsu.edu](mailto:jbyer5@ncsu.edu) in Email, “Password123” in Password, “Password123” in Repeat Password, 16 in max credits 3. Click **Add New Student** 4. *Check Results* 5. Click OK 6. Close GUI | A pop up dialog box says “Invalid first name”  Student Directory table should remain empty | A pop up dialog box says “Invalid first name”  Student Directory table is still empty |
| Test 13: Add Student Invalid Last Name | Preconditions: Test 3 and 7 passed   1. Type “John” in First Name box, Nothing in Last Name box, “jbyer5” in ID, [jbyer5@ncsu.edu](mailto:jbyer5@ncsu.edu) in Email, “Password123” in Password, “Password123” in Repeat Password, 16 in max credits 2. Click **Add New Student** 3. *Check Results* 4. Click OK 5. Close GUI | A pop up dialog box says “Invalid last name”  Student Directory table should remain empty | A pop up dialog box says “Invalid last name”  Student Directory table is still empty |
| Test 14: Add Student Invalid Id | Preconditions: Test 3 and 7 passed   1. Type “John” in First Name box, “Byers” in Last Name box, nothing in ID, [jbyer5@ncsu.edu](mailto:jbyer5@ncsu.edu) in Email, “Password123” in Password, “Password123” in Repeat Password, 16 in max credits 2. Click **Add New Student** 3. *Check Results* 4. Click OK 5. Close GUI | A pop up dialog box says “Invalid id”  Student Directory table should remain empty | A pop up dialog box says “Invalid id”  Student Directory table is still empty |
| Test 15: Add Student Invalid Email | Preconditions: Test 3 and 7 passed   1. Type “John” in First Name box, “Byers” in Last Name box, “jbyer5” in ID, [jbyer5.ncsu@edu](mailto:jbyer5.ncsu@edu) in Email, “Password123” in Password, “Password123” in Repeat Password, 16 in max credits 2. Click **Add New Student** 3. *Check Results* 4. Click OK 5. Close GUI | A pop up dialog box says “Invalid email”  Student Directory table should remain empty | A pop up dialog box says “Invalid email”  Student Directory table is still empty |