# 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 student\_records.txt. The records should now be ordered alphabetically by last name, then first name, then id.  First name, last name, and id of each student should be displayed. | Student\_records.txt are loaded into the Student Directory table and the records are now order sequentially by alphabetical order with precedence first in the last name, then the first name, and lastly the id’s of all the students.  First name, last name, and id’s of each student should be displayed in the Student Directory. |
| 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. | The student directory table is completely 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 message displays “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 message displays “Passwords do not match” |
| Test 7: Add New Students Ordered | 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. Type “Dan” in First Name box, “Byers” in Last Name box, “dbyers” in ID, [dbyers@ncsu.edu](mailto:dbyers@ncsu.edu) in Email, “Password123” in Password, “Password123” in Repeat Password, 16 in max credits 3. Type “Dan” in First Name box, “Byers” in Last Name box, “dbyers1” in ID, [skancha@ncsu.edu](mailto:skancha@ncsu.edu) in Email, “Password123” in Password, “Password123” in Repeat Password, 16 in max credits 4. Type “Geigh” in First Name box, “Neill” in Last Name box, “gneill” in ID, [gneill@ncsu.edu](mailto:gneill@ncsu.edu) in Email, “Password123” in Password, “Password123” in Repeat Password, 16 in max credits 5. *Check Results* 6. Close GUI | Student Directory table should be updated with new students ordered sequentially by dbyers, dbyers1, jbyer5, gneill and there subsequent first and last names in that order. | Student Directory table now has the new students inside of it. The students are ordered alphabetically by last name. The order is dbyers, dbyers1, jyber5, gneill, along with their first and last names in their designated areas on the table. |
| 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 message displays “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.”  All the students still shows up on student directory | A pop-up message displays “No student selected.”  All the students in the same order are shown in the student directory table. |
| Test 10: Remove Student | Preconditions: Test 3 and 7 passed   1. Select the second row in Student Directory table 2. Click **Remove Student** 3. *Check Results* 4. Close GUI | Dbyers1 is removed from the table. Student Directory should now display the students dbyers, jbyer5, gneill in that order. | The student Sahil Kanchan is removed from the directory table and it now displays the students in the order dbyers, jbyer5, gneill. |
| Test 11: Save Student Directory | Preconditions: Test 3 passed   1. Click **Load Student Directory** and load the file student\_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 student\_records.txt. The students should be displayed in alphabetical order unlike the input file ordering.  In the new output file students should be listed in alphabetical order with primary precedence on last name, secondary precedence on first name, and tertiary precedence on the id of the student. | Student\_records.txt is loaded into the student directory table. The students loaded into the directory table are alphabetically ordered by last name, then first name, then id.  The output file from saving is in alphabetical order and matches with the student ordering that was present when student\_records.txt was loaded into the student directory table |
| 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 message displays “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 |