# CSC 217 Lab 03: System Test Plan

To run the tests:

1. Right click on StudentDirectoryPanel class in the Package Explorer.
2. Select Run As > Java Application

The FileChooser for the student directory will load automatically.

All tests files are located in the test-files/ folder and the contents of the files used in testing are below:

*invalid\_student\_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

*student\_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

Note that while all tests end with the statement to Close GUI, you can run Tests 2-13 on the same GUI if there are no failures. If there are failures, you can use the preconditions to identify the dependent test cases.

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| Test 1: Invalid File | Preconditions: None   1. Run WolfSchedulerGUI. 2. In the **Load Student Directory** FileChooser dialog select: test-files/invalid\_student\_records.txt 3. Click **Select** 4. *Check results* 5. Close GUI | * StudentDirectoryPanel loads * Student Directory is empty | The Gui loads and the student directory is empty |
| Test 2: Valid File | Preconditions: None   1. Run WolfSchedulerGUI. 2. In the **Load Student Directory** FileChooser dialog select: test-files/student\_records.txt 3. Click **Select** 4. *Check results* 5. Close GUI | * StudentDirectoryPanel loads   Student Directory contains 10 items:   * Demetrius, Austin, daustin * Lane, Berg, lberg * Raymond, Brennan, rebrennan * Emerald, Frost, efrost   Shannon, Hansen, shansen   * Althea, Hicks, ahicks * Zahir, King, zking * Dylan, Nolan, dnolan * Cassandra, Schwartz, cschwartz * Griffith, Stone, gstone | The gui loads,the student directory is populated by the 10 students listed in the expected results, in the order shown |
| Test 3: Add - No Sel. | Preconditions: Test 2 has passed   1. Make sure that no row in the Student Information section is filled in 2. Click **Add Student** 3. *Check results* 4. Click **OK** 5. Close GUI | A pop-up dialog stating “No student information” is displayed. | A pop-up dialog stating “No student information” is displayed. |
| Test 4: Add | Preconditions: Test 2 has passed   1. Fill in the following information in the Student Information panel:  First Name: Nate  Last Name: Powers  ID: napower2  Email: [napower2@ncsu.edu](mailto:napower2@ncsu.edu)  Password: 1234  Repeat Password: 1234  Max Credits: 4 2. Click **Add Student** 3. *Check results* 4. Click **OK**   Close GUI | * StudentDirectoryPanel loads   Student Directory contains 11 items:   * Demetrius, Austin, daustin * Lane, Berg, lberg * Raymond, Brennan, rebrennan * Emerald, Frost, efrost   Shannon, Hansen, shansen   * Althea, Hicks, ahicks * Zahir, King, zking * Dylan, Nolan, dnolan * Nate, Powers, napower2 * Cassandra, Schwartz, cschwartz * Griffith, Stone, gstone | The StudentDirectoryPanel loads, the original list of 10 students is displayed. After entering the information and clicking Add Student, the list inserts an 11th line between Dylan, Nolan and Cassandra, Schwartz with the details “Nate , Powers, napower2” |
| Test 5: Remove - No Sel. | Preconditions: Test 2 has passed   1. Make sure that no row in the Student Directory is selected 2. Click **Remove Student** 3. *Check results* 4. Click **OK** 5. Close GUI | A pop-up dialog stating “No student selected” is displayed. | A pop-up dialog stating “No student selected” is displayed. |
| Test 6: Remove Student | Preconditions: Test 2 and Test 4 have passed   1. Select the 11th row of the Student Directory 2. *Check results* 3. Click **Remove Student** 4. *Check results* 5. Click **OK** 6. Close GUI | * StudentDirectoryPanel loads   Student Directory now contains 10 items:   * Demetrius, Austin, daustin * Lane, Berg, lberg * Raymond, Brennan, rebrennan * Emerald, Frost, efrost   Shannon, Hansen, shansen   * Althea, Hicks, ahicks * Zahir, King, zking * Dylan, Nolan, dnolan * Cassandra, Schwartz, cschwartz * Griffith, Stone, gstone | The student directory removes the line “Nate, Powers, napower2” after selecting it and clicking remove student. It then shows the student in the expected list in the order shown. |
| Test 7: Duplicate Student | Preconditions: Test 2 and Test 4 have passed   1. Fill in the following information in the Student Information panel:  First Name: Nate  Last Name: Powers  ID: napower2  Email: [napower2@ncsu.edu](mailto:napower2@ncsu.edu)  Password: 1234  Repeat Password: 1234  Max Credits: 4 2. Click **Add Student** 3. *Check results* 4. Click **OK**   Close GUI | A pop-up dialog stating “Student already in system” is displayed. | After entering the duplicate student information, the pop-up dialog stating “Student already in system” is displayed. |
| Test 8: Add Several | Preconditions: Test 2 and Test 4 have passed   1. Fill in the following information in the Student Information panel:  First Name: Nate  Last Name: Powers  ID: napower2  Email: [napower2@ncsu.edu](mailto:napower2@ncsu.edu)  Password: 1234  Repeat Password: 1234  Max Credits: 4 2. Click **Add Student** 3. Fill in the following information in the Student Information panel:  First Name: Ethan  Last Name: Powers  ID: epower  Email: [epower@ncsu.edu](mailto:epower@ncsu.edu)  Password: 4321  Repeat Password: 4321  Max Credits: 10 4. Click **Add Student** 5. *Check results* 6. Click **OK**   Close GUI | * StudentDirectoryPanel loads   Student Directory contains 12 items:   * Demetrius, Austin, daustin * Lane, Berg, lberg * Raymond, Brennan, rebrennan * Emerald, Frost, efrost   Shannon, Hansen, shansen   * Althea, Hicks, ahicks * Zahir, King, zking * Dylan, Nolan, dnolan * Ethan, Powers, epower * Nate, Powers, napower2 * Cassandra, Schwartz, cschwartz * Griffith, Stone, gstone | After adding the 2 additional students, the Student Directory updates to show the 12 items of students listed in the expected results, in the order that is shown |
| Test 9: Save Student Directory | Preconditions: Test 2, 4, and 8 have passed   1. Click **Save Student Directory** 2. Choose test-files as the directory 3. Enter filename “new\_student\_directory.txt” into the field 4. Click **Save** 5. *Check results* | The file “new\_student\_directory.txt” contains a csv list of 12 items as listed below:  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  Ethan,Powers,epower,epower@ncsu.edu,A6xnQhbz4Vx2HuGl4lXwZ5U2I8iziLRFnhP5eNfIRvQ=,10  Nate,Powers,napower2,napower2@ncsu.edu,A6xnQhbz4Vx2HuGl4lXwZ5U2I8iziLRFnhP5eNfIRvQ=,4  Cassandra,Schwartz,cschwartz,semper@imperdietornare.co.uk,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,4  Griffith,Stone,gstone,porta@magnamalesuadavel.net,MMlS+rEiw/l1nwKm2Vw3WLJGtP7iOZV7LU/uRuJhcMQ=,17 | The FileChooser loads, I select the directory and then enter the filename. I open the file in a text editor and it lists out the 12 student records as a csv list in the order shown |
| Test 10: New Student Directory | Preconditions: Test 2, 4, 8, and 9 have passed   1. Click **New Student Directory** 2. *Check results* 3. Close GUI | The Student Directory shows no records | The Student Directory is blank after pressing New Student Directory |
| Test 11: Load saved directory | Preconditions: Test 2, 4, and Tests 8-10 have passed   1. Click **Load Student Directory** 2. Select “new\_student\_records.txt” in the FileChooser 3. Click **Select** 4. *Check results* 5. Close GUI | The Student Directory now shows 12 items:   * Demetrius, Austin, daustin * Lane, Berg, lberg * Raymond, Brennan, rebrennan * Emerald, Frost, efrost   Shannon, Hansen, shansen   * Althea, Hicks, ahicks * Zahir, King, zking * Dylan, Nolan, dnolan * Ethan, Powers, epower * Nate, Powers, napower2 * Cassandra, Schwartz, cschwartz * Griffith, Stone, gstone | The Student Directory updates to show the 12 items of students listed in the expected results in the order shown |
| Test 12: Add Student Non-Matching Passwords | Preconditions: none   1. Open StudentDirectoryPanel 2. Fill in the following information in the Student Information panel:  First Name: Nate  Last Name: Powers  ID: napower2  Email: [napower2@ncsu.edu](mailto:napower2@ncsu.edu)  Password: 1234  Repeat Password: 4321  Max Credits: 4 3. Click **Add Student** 4. *Check results* 5. Click **OK** 6. Close GUI | A pop-up dialog stating “Passwords do not match” is displayed. | A pop-up dialog stating “Passwords do not match” is displayed. |
| Test 13: Add Student Invalid Email | Preconditions: none   1. Open StudentDirectoryPanel 2. Fill in the following information in the Student Information panel:  First Name: Nate  Last Name: Powers  ID: napower2  Email: napower2.gmail@com  Password: 1234  Repeat Password: 1234  Max Credits: 4 3. Click **Add Student** 4. *Check results* 5. Click **OK** 6. Close GUI | A pop-up dialog stating “Invalid email” is displayed | The pop-up dialog shows “Invalid email” |
| Test 14: Add Student No  Max Credits | Preconditions: none   1. Open StudentDirectoryPanel 2. Fill in the following information in the Student Information panel:  First Name: Nate  Last Name: Powers  ID: napower2  Email: napower2@gmail.com  Password: 1234  Repeat Password: 1234  Max Credits: *leave blank* 3. Click **Add Student** 4. *Check results* 5. Click **Save Student Directory** 6. Choose test-files as the directory 7. Enter filename “new\_student\_no\_credits.txt” into the field 8. Click **Save** 9. *Check results*   Close GUI | The file “new\_student\_directory.txt” contains a csv list record of the student, with 18 as the last item in the list:  Nate,Powers,napower2,napower2@ncsu.edu,A6xnQhbz4Vx2HuGl4lXwZ5U2I8iziLRFnhP5eNfIRvQ=,18 | When selecting and opening the file in the text editor after entering the student, I see the max credits default to set to 18 |
| Test 15: Add Student Invalid ID | Preconditions: none   1. Open StudentDirectoryPanel 2. Fill in the following information in the Student Information panel:  First Name: Nate  Last Name: Powers  ID:   Email: napower2.gmail@com  Password: 1234  Repeat Password: 1234  Max Credits: 4 3. Click **Add Student** 4. *Check results* 5. Click **OK**   Close GUI | A pop-up dialog stating “Invalid ID” is displayed | The pop-up dialog shows “Invalid ID” |