# Lab 02: System Test Plan

## Test Overview

<Describe how a test should run the tests. Delete this line in the final report.>

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| **Test ID** | **Description** | | **Expected Results** | **Actual Results** |
| Test 1: Invalid File  Author: Audrey Fuelleman | Preconditions: None   1. Run StudentDirectoryPanel.      1. Click **Load Student Directory** 2. In the **Load Course Catalog** FileChooser dialog select: test-files/invalid\_student\_records.txt 3. Click **Select** 4. *Check results*   Close GUI | | Student directory remains empty. | The student directory remains unchanged. Selected file was not successfully loaded. |
| Test 2: Valid File  Author: Audrey Fuelleman | Preconditions: None   1. Run StudentDirectoryPanel.      1. Click **Load Student Directory** 2. In the **Load Course Catalog** FileChooser dialog select: test-files/student\_records.txt 3. Click **Select** 4. *Check results*   Close GUI | | Student directory contains the 10 students from the selected file in the order of their last name, first name, and student ID. | Student directory now contains 10 students in the order of:  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,cschartz  Griffith,Stone,gstone |
| Test 3: Add Valid Student  Author: Audrey Fuelleman | Preconditions: None   1. Run StudentDirectoryPanel. 2. In student information enter:   First Name: John  Last Name: Smith  ID: 200412345  Email: [jsmith@ncsu.edu](mailto:jsmith@ncsu.edu)  Password: password123  Repeat Password: password123   1. Click **Add Student** 2. *Check results*   Close GUI | | Student is successfully added to the student directory. | Student is added to the student directory with the first name “John,” last name “Smith,” and student ID “200412345” |
| Test 4: Add Student Mismatch Passwords  Author: Audrey Fuelleman | Preconditions: None  1. Run StudentDirectoryPanel.  2. In student information enter:  First Name: John  Last Name: Smith  ID: 200412345  Email: [jsmith@ncsu.edu](mailto:jsmith@ncsu.edu)  Password: password123  Repeat Password: differentpassword  3. Click **Add Student**  4. *Check results*  Close GUI | | A pop-up window displays with the error message “Passwords do not match.” | A pop-up window displays with the error message “Passwords do not match.” Information is still displayed for each field in the student information section. |
| Test 5: Remove Student None Selected  Author: Audrey Fuelleman | Preconditions: None  1. Run StudentDirectoryPanel.  2. Click **Remove Student**  3. *Check results*  Close GUI | | A pop-up window displays with the error message “No student selected.” | A pop-up window displays with the error message “No student selected.” Student directory remains unchanged. |
| Test 6:  New Student Directory  Author: Sam McDonald | Preconditions: StudentDirectoryPanel is running with a Student Directory loaded (see Test 2)  1. Click **New Student Directory**  2. *Check results*  Close GUI | | Student Directory becomes empty. | Student Directory becomes empty. |
| Test 7: Save Student Directory to File  Author: Sam McDonald | Preconditions: StudentDirectoryPanel is running.  1. In student information enter:  First Name: John  Last Name: Smith  ID: 200412345  Email: [jsmith@ncsu.edu](mailto:jsmith@ncsu.edu)  Password: password123  Repeat Password: password123   1. Click **Add Student** 2. Click **Save Student Directory** 3. Enter **test-files** folder 4. Save file as **test\_7\_results.txt** 5. *Check* **test\_7\_results.txt**   Close GUI | | File is successfully created and contains the student information entered | Student information is written in the file with the first name “John,” last name “Smith”, student ID “200412345”, email “jsmith@ncsu.edu, ”hashed password, and max credits “18”. |
| Test 8: Add Valid Student: Custom Max Credit  Author: Sam McDonald | Preconditions: StudentDirectoryPanel is running.  1. In student information enter:  First Name: John  Last Name: Smith  ID: 200412345  Email: [jsmith@ncsu.edu](mailto:jsmith@ncsu.edu)  Password: password123  Repeat Password: password123  Max Credits: 14  2. Click **Add Student**  3. Click **Save Student Directory**  4. Enter **test-files** folder  5. Save file as **test\_8\_results.txt**  6. *Check* **test\_8\_results.txt**  Close GUI | | File is successfully created and contains the student information entered, including the max credits at specified number | Student information is written in the file with the first name “John,” last name “Smith”, student ID “200412345”, email “jsmith@ncsu.edu, ”hashed password, and max credits “14”. |
| Test 9: Add Student Invalid Credits  Author: Sam McDonald | Preconditions: StudentDirectoryPanel is running.  1. In student information enter:  First Name: John  Last Name: Smith  ID: 200412345  Email: [jsmith@ncsu.edu](mailto:jsmith@ncsu.edu)  Password: password123  Repeat Password: password123  Max Credits: 2  2. Click **Add Student**  3. Click **Save Student Directory**  4. Enter **test-files** folder  5. Save file as **test\_9\_results.txt**  6. *Check* **test\_9\_results.txt**  Close GUI | | File is successfully created and contains the student information entered except for max credits, which is set to 18. | Student information is written in the file with the first name “John,” last name “Smith”, student ID “200412345”, email “jsmith@ncsu.edu, ”hashed password, and max credits “18”. |
| Test 10: Add Student Invalid Email  Author: Sam McDonald | Preconditions: StudentDirectoryPanel is running.  1. In student information enter:  First Name: John  Last Name: Smith  ID: 200412345  Email: invalidemail  Password: password123  Repeat Password: password123  2. Click **Add Student**  Close GUI | | A pop-up window displays with the error message “Invalid email” | A pop-up window displays with the error message “Invalid email” Information is still displayed for each field in the student information section. |
| Test 11: AddStudentPasswoEmpty  Author:  Ben Wojtkowiak | Preconditions: Test 2  1. Enter this info into student information  First Name: John  Last Name: Smith  ID: 200412345  Email: [jsmith@ncsu.edu](mailto:jsmith@ncsu.edu)  Password: [Empty String Here]  Repeat Password: [Empty String Here]  Max Credits: 10  2. Click Add Student  3.  *Check Results* | | A pop-up window displays with the error message “Invalid Password” | A message window appears stating that you have inputted “Invalid Password”. |
| Test 12: RemoveStudentValid  Author:  Ben Wojtkowiak | Preconditions: Test 2  1. Select (highlight) the student **Zahir King, zking**  2. Click **Remove Student**  3. Click **Save Student Directory**  4. Enter **test-files** folder  5. Save file as **test\_12\_results.txt**  6. *Check* **test\_12\_results.txt**  7. Close GUI | | The student Zahir King, zking is now removed from the Student Directory list of students and all other students remain | The student Zahir King is now removed from the Student Directory. All other students were still on the list. |
| Test 13:  AddStudentInvalidID  Author: Ben Wojtkowiak | | Preconditions: StudentDirectoryPanel is running.  1. In student information enter:  First Name: John  Last Name: Smith  ID: [Empty String]  Email: [jsmith@ncsu.edu](mailto:jsmith@ncsu.edu)  Password: password123  Repeat Password: password123  Max Credits: 10  2. Click **Add Student**  3. *Check Results*  Close GUI | A pop-up window displays with the error message “Invalid id”. | After not entering an id, a message window pops up and states “Invalid id”. |
| Test 14: AddStudentInvalidFirstName  Author: Be Wojtkowiak | Preconditions: StudentDirectoryPanel is running.  1. In student information enter:  First Name: [Empty String]  Last Name: Smith  ID: 200434055  Email: [jsmith@ncsu.edu](mailto:jsmith@ncsu.edu)  Password: password123  Repeat Password: password123  Max Credits: 10  2. Click **Add Student**  3. *Check Results*  Close GUI | | A pop-up window displays with the error message “Invalid first name”. | After not entering an id, a message window pops up and states “Invalid first name”. |
| Test 15: AddStudentInvalidLastName  Author: Ben Wojtkowiak | Preconditions: StudentDirectoryPanel is running.  1. In student information enter:  First Name: John  Last Name: [Empty String]  ID: 200450334  Email: [jsmith@ncsu.edu](mailto:jsmith@ncsu.edu)  Password: password123  Repeat Password: password123  Max Credits: 10  2. Click **Add Student**  3. *Check Results*  Close GUI | | A pop-up window displays with the error message “Invalid last name”. | After not entering an id, a message window pops up and states “Invalid last name”. |