# Lab 02: System Test Plan

## Test Overview

Using the GUI, follow the steps of the description given.

Upon failure of a test (expected results are not equal to the actual results), restart the program.

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| Test 1  Load an invalid directory. | Preconditions: None   1. Run StudentDirectoryPanel.java 2. Choose “Load Student Directory” 3. Open “test-files” 4. Open “invalid student records.txt” | No students are added to Student Directory | **No students were added. A bunch of “Exception is null” were printed to console** |
| Test 2  Load a valid directory | Preconditions: Test 1 finished   1. Choose “Load Student Directory” 2. Open “test-files” 3. Open “student\_records.txt” | 10 students are added to the Student Directory. Their first name /last name/Student ID should be displayed.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Zahir | | King | | | | | | | | | | zking | | | | | | | | Cassandra | | | | | | | | | Schwartz | | | | | | | | | | | | | cschwartz | | | | | | | | | Shannon | | | | | | | Hansen | | | | | | | | | | | shansen | | | | | | | | | | Demetrius | | | | | | | | | | | Austin | | | | | | | | | daustin | | | | | | | | | Raymond | | | | | | | | Brennan | | | | | | | | | | | | | rbrennan | | | | | | | | | Emerald | | | | | | Frost | | | | | | | | | | efrost | | | | | | | | | | Lane | Berg | | | | | | | | | lberg | | | | | | | | Griffith | | | | | Stone | | | | | | | | | | gstone | | | | | | | | | | | | Althea | | | | Hicks | | | | | | | | | | ahicks | | | | | | | | | | | Dylan | | | Nolan | | | | | | | | | | dnolan | | | | | | | | | | | **10 Students were added. Their details are identical to expected** |
| Test 3  Remove a Student | Preconditions: Test 2 Finished   1. Choose the first Student in the Student Directory (Zahir King) 2. Click “Remove Student” | Zahir King’s details should be removed from the Student Directory  Every other student should still be displayed | **Zahir King was removed from Student Directory**  **All other students were unaffected** |
| Test 4  Making a valid Student. | Preconditions: Test 3 Finished   1. Under Student Information, add:  * First Name: Bob * Last Name: Builder * ID: bbuilder * Email: [bbuilder@ncsu.edu](mailto:bbuilder@ncsu.edu) * Password: building * Repeat Password: building * Max Credits: 15 | Under Student Directory, Bob, Builder and bbuilder should be under First Name, Last Name, and Student ID respectively. Bob should be on the bottom of the list  There’s no data in the Student Information section | **Bob, Builder, bbuilder are shown, at the bottom of the list**  **The Data Information Section was cleared.** |
| Test 5  Adding an invalid student | Preconditions: Test 4 Finished   1. Under Student Information, add: 2. First Name: Brendan 3. Last Name: Builder 4. ID: bbuilder 5. Email: [bbuilder@ncsu.edu](mailto:bbuilder@ncsu.edu) 6. Password: password 7. Repeat Password: password 8. Max Credits: 13 | A pop-up saying “Invalid id”  Brendan Builder is not added to the Student Directory | **A pop-up saying “Invalid id”**  **Brendan builder was not added to the Student Directory**  **All of Brendan’s information is still stored in the Student Information section** |