# Lab 02: Black Box 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:  Inputting a valid student | Preconditions:  Start the program  **First Name:** Graham  **Last Name:** Swain  **ID:** gnswain  **Email:** gnswain@ncsu.edu  **Password:** password  **Repeat Password:** password  **Max Credits:** 18 | Under Student Directory:  **First Name:** Graham  **Last Name:** Swain  **Student ID:** gnswain | Under Student Directory:  **First Name:** Graham  **Last Name:** Swain  **Student ID:** gnswain |
| Test 2:  Blank First Name | Preconditions:  Start the program  **First Name:**  **Last Name:** Swain  **ID:** gnswain  **Email:** gnswain@ncsu.edu  **Password:** password  **Repeat Password:** password  **Max Credits:** 18 | Pop up:  Invalid First Name | Pop up:  Invalid First Name |
| Test 3:  Blank Last Name | Preconditions:  Start the program  **First Name:** Graham  **Last Name:**  **ID:** gnswain  **Email:** gnswain@ncsu.edu  **Password:** password  **Repeat Password:** password  **Max Credits:** 18 | Pop up:  Invalid Last Name | Pop up:  Invalid Last Name |
| Test 4:  Invalid ID | Preconditions:  Start the program  **First Name:** Graham  **Last Name:** Swain  **ID:**  **Email:** gnswain@ncsu.edu  **Password:** password  **Repeat Password:** password  **Max Credits:** 18 | Pop up:  Invalid id | Pop up:  Invalid id |
| Test 5:  Blank Email | Preconditions:  Start the program  **First Name:** Graham  **Last Name:** Swain  **ID:** gnswain  **Email:**  **Password:** password  **Repeat Password:** password  **Max Credits:** 18 | Pop up:  Invalid email | Pop up:  Invalid email |
| Test 6:  No at symbol in email | Preconditions:  Start the program  **First Name:** Graham  **Last Name:** Swain  **ID:** gnswain  **Email:** gnswainncsu.edu  **Password:** password  **Repeat Password:** password  **Max Credits:** 18 | Pop up:  Invalid email | Pop up:  Invalid email |
| Test 7:  No period | Preconditions:  Start the program  **First Name:** Graham  **Last Name:** Swain  **ID:** gnswain  **Email:** gnswain@ncsuedu  **Password:** password  **Repeat Password:** password  **Max Credits:** 18 | Pop up:  Invalid email | Pop up:  Invalid email |
| Test 8:  Blank Password | Preconditions:  Start the program  **First Name:** Graham  **Last Name:** Swain  **ID:** gnswain  **Email:** gnswain@ncsu.edu  **Password:**  **Repeat Password:** password  **Max Credits:** 18 | Pop up:  Invalid password | Pop up:  Invalid password |
| Test 8:  Blank Repeat Password | Preconditions:  Start the program  **First Name:** Graham  **Last Name:** Swain  **ID:** gnswain  **Email:** gnswain@ncsu.edu  **Password:** password  **Repeat Password:**  **Max Credits:** 18 | Pop up:  Invalid password | Pop up:  Invalid password |
| Test 9:  Different passwords | Preconditions:  Start the program  **First Name:** Graham  **Last Name:** Swain  **ID:** gnswain  **Email:** gnswain@ncsu.edu  **Password:** password  **Repeat Password:** pass  **Max Credits:** 18 | Pop up: Passwords do not match | Pop up: Passwords do not match |
| Test 10:  Max Credits of 2 | Preconditions:  Start the program  **First Name:** Graham  **Last Name:** Swain  **ID:** gnswain  **Email:** gnswain@ncsu.edu  **Password:** password  **Repeat Password:**  **Max Credits:** 2 | Pop up:  Invalid max credits | Pop up:  Invalid max credits |
| Test 11:  Max Credits of 19 | Preconditions:  Start the program  **First Name:** Graham  **Last Name:** Swain  **ID:** gnswain  **Email:** gnswain@ncsu.edu  **Password:** password  **Repeat Password:**  **Max Credits:** 19 | Pop up:  Invalid max credits | Pop up:  Invalid max credits |
| Test 12:  Minimum Max Credits | Preconditions:  Start the program  **First Name:** Graham  **Last Name:** Swain  **ID:** gnswain  **Email:** gnswain@ncsu.edu  **Password:** password  **Repeat Password:**  **Max Credits:** 3 | Under Student Directory:  **First Name:** Graham  **Last Name:** Swain  **Student ID:** gnswain | Under Student Directory:  **First Name:** Graham  **Last Name:** Swain  **Student ID:** gnswain |
| Test 13:  Maximum  Max Credits | Preconditions:  Start the program  **First Name:** Graham  **Last Name:** Swain  **ID:** gnswain  **Email:** gnswain@ncsu.edu  **Password:** password  **Repeat Password:**  **Max Credits:** 18 | Under Student Directory:  **First Name:** Graham  **Last Name:** Swain  **Student ID:** gnswain | Under Student Directory:  **First Name:** Graham  **Last Name:** Swain  **Student ID:** gnswain |
| Test 14:  Remove Student | Test 1 has passed.  Select: Graham Swain  Hit remove student | Student Directory is empty | Student Directory is empty |
| Test 15:  Load directory | Load the program  Load Student Directory  Load test-files/student\_record.txt | Student Directory   * Demetrius, Austin, daustin * Lane, Berg, iberg * Raymond, Brennan, rbrennan * Emerald, Frost, efrost * Shannon, Hansen, shansen * Althea, Hicks, ahicks * Zahir, King, zking * Dylan, Nolan, dnolan * Cassandra, Schwartz, cschwartz * Griffith, Stone, gstone | Student Directory   * Demetrius, Austin, daustin * Lane, Berg, iberg * Raymond, Brennan, rbrennan * Emerald, Frost, efrost * Shannon, Hansen, shansen * Althea, Hicks, ahicks * Zahir, King, zking * Dylan, Nolan, dnolan * Cassandra, Schwartz, cschwartz   Griffith, Stone, gstone |