# 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: Load StudentDirectoryPanel | Preconditions: None   1. Run StudentDirectoryPanel.java 2. Check Results | * StudentDirectory loads * StuentDirectory is empty * Student information fields are empty | * StudentDirectory loads * StuentDirectory is empty * Student information fields are empty |
| Test 2: Load Student Directory | Preconditions: None   1. Click **Load Student Directory** 2. Click *test-files/student\_records.txt* 3. Click **Select** 4. Check results 5. Close GUI | Student Directory contains 10 students   * 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 | Student directory now contains 10 students with their first name, last name, and student ID. |
| Test 3:  Remove-No Sel. | Preconditions: Test 2 has passed   1. Make sure no information is input into student information 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 4:  Invalid First Name | Preconditions: Test 2 has passed   1. Make sure Student Information is empty 2. Enter the following in the Student Information section   First Name:  Last Name: Smith  ID: jjsmith  Email: [jjsmith@ncsu.edu](mailto:jjsmith@ncsu.edu)  Password: password123  Repeat Password: password123  Max Credits: 15   1. Click **Add Student** 2. Check results 3. Close GUI | A pop-up dialog stating “Invalid first name” is displayed. | A pop-up dialog stating “Invalid first name” is displayed. |
| Test 5:  Not matching passwords | Preconditions: Test 2 has passed and Test 4 has passed  1.Make sure Student Information is empty  2.Enter the following in the Student Information section  First Name: John  Last Name: Smith  ID: jjsmith  Email: [jjsmith@ncsu.edu](mailto:jjsmith@ncsu.edu)  Password: password123  Repeat Password: password124  Max Credits: 15  3. Click **Add Student**  4.Check results  5. 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 6:  Invalid Email | Preconditions: Test 2 has passed  1.Make sure Student Information is empty  2.Enter the following in the Student Information section  First Name: John  Last Name: Smith  ID: jjsmith  Email: [jjsmith.@ncsuedu](mailto:jjsmith@ncsu.edu)  Password: password123  Repeat Password: password123  Max Credits: 15  3. Click **Add Student**  4.Check results  5. Close GUI | A pop-up dialog stating “Invalid email” is displayed. | A pop-up dialog stating “Invalid email” is displayed. |
| Test 7:InvalidPassword | Preconditions: Test 2 Has passed  1.Make sure Student Information is empty  2.Enter the following in the Student Information section  First Name: John  Last Name: Smith  ID: jjsmith  Email: [jjsmith@ncsu.edu](mailto:jjsmith@ncsu.edu)  Password: “”  Repeat Password: “”  Max Credits: 15  3. Click **Add Student**  4.Check results  5. Close GUI | A Pop-up dialog stating “Invalid Password” is displayed | A Pop-up dialog stating “Invalid Password” is displayed |
| Test 8:  Invalid Last Name | Preconditions: Test 2 Passes  1.Make sure Student Information is empty  2.Enter the following in the Student Information section  First Name: John  Last Name:  ID: jjsmith  Email: [jjsmith@ncsu.edu](mailto:jjsmith@ncsu.edu)  Password: password  Repeat Password: password  Max Credits: 15  3. Click **Add Student**  4.Check results  5. Close GUI | A pop-up dialog stating “Invalid last name” is displayed | A pop-up dialog stating “Invalid last name” is displayed |
| Test 9:Invalid ID | Preconditions: Test 2 Passes  1.Make sure Student Information is empty  2.Enter the following in the Student Information section  First Name: John  Last Name: Smith  ID: “”  Email: [jjsmith@ncsu.edu](mailto:jjsmith@ncsu.edu)  Password: password  Repeat Password: password  Max Credits: 15  3. Click **Add Student**  4.Check results  5. Close GUI | A Pop-up dialog stating “Invalid id” is displayed | A Pop-up dialog stating “Invalid id” is displayed |
| Test 10: add 1 student | Preconditions: Test 2 passes  1.Make sure Student Information is empty  2.Enter the following in the **Student Information** section  First Name: Alice  Last Name: Michaels  ID: amichae  Email: amichae[@ncsuedu](mailto:jjsmith@ncsu.edu)  Password: NewPassword  Repeat Password: NewPassword  Max Credits: 16  3. Click **Add Student**  4.Check results  5. Close GUI | **Student Directory** contains 1 student   * Alice, Michaels, amichae | Student directory now has 1 student  Containing their first name, last name, and student ID |
| Test 11: Add  Multiple Students | Preconditions: Test 2 passes  1.Make sure Student Information is empty  2.Enter the following in the **Student Information** section  First Name: John  Last Name: Brewer  ID: jobrewer  Email: jobrewer[@ncsuedu](mailto:jjsmith@ncsu.edu)  Password: Password  Repeat Password: Password  Max Credits: 16  3. Click **Add Student**  **4.** Enter the following in the **Student Information** section  First Name: Jimmy  Last Name: Valmer  ID: jivalmer  Email: jivalmer@ncsu.edu  Password: Password12  Repeat Password: Password12  Max Credits: 14  5. Check Results   1. Close GUI | Both students are added to the StudentDirectory.  Student Directory displays   * John, Brewer, jobrewer * Jimmy, Valmer, jivalmer | Both students are added to the StudentDirectory.  Student Directory displays   * John, Brewer, jobrewer * Jimmy, Valmer, jivalmer |
| Test 12:Remove Student | Preconditions: Tests 2 and 11 pass  1.Select row 1 of Student Schedule, “John, Brewer, jobrewer”  2.Click **Remove Student**  3. Check Results  4. Close GUI | John, Brewer, jobrewer is removed from Student Directory  Student Directory displays   * Jimmy, Valmer, jivalmer | John, Brewer, jobrewer is removed from Student Directory  Student Directory displays   * Jimmy, Valmer, jivalmer |
| Test 13:  Save Student directory | Preconditions: Test 2 and Tests 11-12 pass   1. Click **Save Student Directory** 2. Select *test-files* folder. Enter filename *our\_student\_records.txt* 3. Click save 4. Check results 5. Close GUI | In Eclipse, right click on the PackScheduler project and select **Refresh.**   1. Open *test-files* folder. Open *our\_student\_records.txt*   The file should contain:  Jimmy ,Valmer,jivalmer,jivalmer@ncsu.edu,88Ftw+87pVZxsKwpOHMKSvw4Z89MAa6aCc/k4jZ2Zr0=,14 | The new test file contains the new student,  Jimmy ,Valmer,jivalmer,jivalmer@ncsu.edu,88Ftw+87pVZxsKwpOHMKSvw4Z89MAa6aCc/k4jZ2Zr0=,14 |
| Test 14:Invalid Max Credits | Preconditions: Test 2 Passes  1.Make sure Student Information is empty  2.Enter the following in the **Student Information** section  First Name: John  Last Name: Brewer  ID: jobrewer  Email: jobrewer[.@ncsuedu](mailto:jjsmith@ncsu.edu)  Password: Password  Repeat Password: Password  Max Credits: 17  3. Check Results  4.Close GUI | A pop-up dialog stating “Invalid max credits” is displayed. | Student Directory displays   * John, Brewer, jobrewer |
| Test 15:  New student Directory | Preconditions:   1. Click **New Student Directory** 2. Check results 3. Close GUI | The **Student Directory** section is now empty. | **Student directory** no longer contains the students' names. It is empty. |