# Lab 02: Black Box Test Plan

## Test Overview

To run the tests:

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

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| Test 1:  Invalid File | Preconditions: None  Run StudentDirectoryPanel  Click **Load Student Directory**  Select **test-files -> invalid\_student\_records.txt** | **Student Directory** and **Student Information** sections are blank | **Student Directory** and **Student Information** sections are blank |
| Test 2:  Remove empty student | Preconditions: None  With **Student Directory** and **Student Information** sections empty  Click Remove Student | **“No student Selected”** | **“No student Selected”** |
| Test 3:  Valid file | Preconditions: None  Run StudentDirectoryPanel  Click **Load Student Directory**  Select **test-files -> student\_records.txt** | The Student Directory section shows 10 students with first name last name and student id. The first line being:  **Demetrius Austin daustin** respectively  And the last being:  **Griffith Stone gstone** respectively | The Student Directory section shows 10 students with first name last name and student id. The first line being:  **Demetrius Austin daustin** respectively  And the last being:  **Griffith Stone gstone** respectively |
| Test 4:  Remove student | Preconditions: Test 3  Select the third name in the Student Directory section.  Click remove student | TheStudent Directory section shows 9 names with the third student on the list being Emerald rather than Raymond | TheStudent Directory section shows 9 names with the third student on the list being Emerald rather than Raymond |
| Test 5:  New Student Directory | Preconditions: Test 3 and 4  Click New Student Directory | The Student Directory section clears | The Student Directory section clears |
| Test 6:  Add Student | Preconditions: Test 5  Go to the Student Information Section and type this information into the text boxes then add student  First Name: **Tom**  Last Name: **Daisy**  ID: **tdaisy**  Email: **tdaisy@ncsu.edu**  Password: **butter151**  Repeat Password: **butter151**  Max Credits: **15** | The Student Directory section reveals:  First Name: **Tom**  Last Name: **Daisy**  Student Id: **tdaisy** | The Student Directory section reveals:  First Name: **Tom**  Last Name: **Daisy**  Student Id: **tdaisy** |
| Test 7:  Add Student too many credits | Preconditions: Test 5  Go to the Student Information Section and type this information into the text boxes then add student  First Name: **Will**  Last Name: **Daisy**  ID: **wdaisy**  Email: **wdaisy@ncsu.edu**  Password: **butter222**  Repeat Password: **butter222**  Max Credits: **19** | **Pop-up text that says “**Max credits must be a positive number between 3 and 18.” | **Pop-up text that says “**Invalid max credits. |
| Test 8:  Unmatching passwords | Preconditions: Test 5  Go to the Student Information Section and type this information into the text boxes then add student  First Name: **Cedric**  Last Name: **Lamar**  ID: **clamar**  Email: **clamar@ncsu.edu**  Password: **butter88**  Repeat Password: **butter55**  Max Credits: **12** | **Pop-up text that says “**Passwords do not match.” | **Pop-up text that says “**Passwords do not match.” |
| Test 9: Removing Student then Add | Preconditions: Test 3 and 4  Click on the third name on the Student Directory list.  Click Remove Student.  Go to the Student Information Section and type this information into the text boxes  First Name: **Tom**  Last Name: **Daisy**  ID: **tdaisy**  Email: **tdaisy@ncsu.edu**  Password: **butter151**  Repeat Password: **butter151**  Max Credits: **15** | **Tom Daisy is added to the third row in the Student Directory section** | **Tom Daisy is added to the bottom on the Student Directory section** |
| Test 10:  Saving file | Preconditions: Test 9  Click Save Student Directory.  Open test-files.  Type new\_student\_records into the file name.  Click Save.  Go to eclipse and refresh the PackScheduler project.  Open new\_student\_records.txt in the test-files folder | **The removed student Raymond Brennan is gone and Tom Daisy is added to the third row** | **The removed student Raymond Brennan is gone and Tom Daisy is added to the third row** |
| Test 11:  No email | Preconditions: none  Fill out Student Information as such:  First Name: **Tom**  Last Name: **Daisy**  ID: **tdaisy**  Email:  Password: **butter151**  Repeat Password: **butter151**  Max Credits: **15**: | **“Invalid email”** | **“Invalid email”** |
| Test 12:  No password | Preconditions: none  Fill out Student Information as such:  First Name: **Tom**  Last Name: **Daisy**  ID: **tdaisy**  Email: **tdaisy@ncsu.edu**  Password:  Repeat Password:  Max Credits: **15**: | **“Invalid password”** | **“Invalid password”** |
| Test 13:  Weird Email | Preconditions: none  Fill out Student Information as such:  First Name: **Tom**  Last Name: **Daisy**  ID: **tdaisy**  Email: **tdaisy**  Password: **butter151**  Repeat Password: **butter151**  Max Credits: **15** | **“Invalid email”** | **“Invalid email”** |
| Test 14:  No first name | Preconditions: none  Fill out Student Information as such:  First Name:  Last Name: **Daisy**  ID: **tdaisy**  Email: **tdaisy@ncsu.edu**  Password: **butter151**  Repeat Password: **butter151**  Max Credits: **15**: | **“Invalid first name”** | **“Invalid first name”** |
| Test 15:  No Id | Preconditions: none  Fill out Student Information as such:  First Name: **Tom**  Last Name: **Daisy**  ID:  Email: **tdaisy@ncsu.edu**  Password: **butter151**  Repeat Password: **butter151**  Max Credits: **15**: | **“Invalid id”** | **“Invalid id”** |