# 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: Invalid File | Preconditions: None  Run PackScheduler.  In the **Load Student Directory** FileChooser dialog select: test-files/invalid\_student\_records.txt  Click **Select**  *Check results* | Nothing is changed as no students pass the tests | Nothing is changed as no students pass the tests |
| Test 2: Valid File | Preconditions: None  Run PackScheduler.  In the **Load Student Directory** FileChooser dialog select: test-files/student\_records.txt  Click **Select**  *Check results* | A grouping of 10 students are put in the directory and are sorted alphabetically by last name  (Austin, Berg, Brennan, Frost, Hansen, Hicks, King, Nolan, Schwartz, Stone) | A grouping of 10 students are put in the directory and are sorted alphabetically by last name |
| Test 3: Add no selection | Preconditions: Test 2 has passed  Make sure that no row in the table is selected (if there is a row selected, restart the GUI)  Click **Add Student**  *Check results*  Click **OK** | Messagebox appears that says “Max Credits must be between 3 and 18” | Messagebox appears that says “Max Credits must be between 3 and 18” |
| Test 4: Remove no selection | Preconditions: Test 2 has passed  Make sure that no row in the table is selected (if there is a row selected, restart the GUI)  Click **Remove Student**  *Check results*  Click **OK** | Messagebox appears that says “No student selected” | Messagebox appears that says “No student selected” |
| Test 5:  Add a valid student | Preconditions: Test 2 has passed  Add custom Student “Max Smith “in the bottom section where his ID is “MSmith”, email is [MSmith@test.com](mailto:MSmith@test.com), password is “pw” and credits taken is 13  Click **Add Student**  Check results  Click OK | Max Smith is shown in the directory with the first name being “Max”, last name being “Smith”, and id being “MSmith”  He is inserted at the 2nd to the bottom in between Schwartz and Stone | Max Smith is shown at the bottom with the first name being “Max”, last name being “Smith”, and id being “MSmith”  He is inserted at the 2nd to the bottom in between Schwartz and Stone |
| Test 6:  Remove a valid student | Preconditions: Test 2 has passed  Click on the top row with Demetrius Austin so that it is highlighted.  Click **Remove Student**  Check results | Demetrius Austin is removed from the directory  Directory now reads:  (Berg, Brennan, Frost, Hansen, Hicks, King, Nolan, Schwartz, Smith, Stone) | Demetrius Austin is removed from the directory  Directory now reads:  (Berg, Brennan, Frost, Hansen, Hicks, King, Nolan, Schwartz, Smith, Stone) |
| Test 7: Add a partially Invalid student | Preconditions: Tests 2, 4, and 6 have passed  Add custom Student “Jane Smith “in the bottom section where her ID is “JSmith”, email is [J.Smith@testcom](mailto:J.Smith@testcom), password is “pw” and credits taken is 13  Click **Add Student**  Check results | MessageBox appears that says “Invalid email” | MessageBox appears that says “Invalid email” |
| Test 8: Reset Directory | Preconditions: Tests 2, 4, 6 and 7 have passed  Click **New Student Directory**  Check results  Close GUI | The directory should have been cleared | The directory should have been cleared |
| Test 9: Test new file | Preconditions: Test 8 has passed  Run PackScheduler.  In the **Load Student Directory** FileChooser dialog select: test-files/actual\_student\_records.txt  Click **Select**  *Check results* | One name is in the directory which is Zahir King | One name is in the directory which is Zahir King |
| Test 10: Add student no first name | Preconditions: Test 9 has passed  Add custom Student with last name “Doe“ in the bottom section where his ID is “JDoe”, email is [JSmith@test.com](mailto:JSmith@test.com), password is “pw” and creditsis 15  Click **Add Student**  Check results | Messagebox appears with error message “Invalid first name” | Messagebox appears with error message “Invalid first name” |
| Test 11: Add student with outliers | Preconditions: Tests 9 and 10 have passed  Add custom Student with name “Jane Doe“ in the bottom section where her ID is “JDoe”, email is [J.Doe@test.com](mailto:J.Doe@test.com), password is “pw” and creditsis 3  Click **Add Student**  Check results | Jane Doe is shown above Zahir King in the directory with the first name being “Jane”, last name being “Doe”, and id being “JDoe” | Jane Doe is shown above Zahir King in the directory with the first name being “Jane”, last name being “Doe”, and id being “JDoe” |
| Test 12: Save the Directory | Preconditions: Tests 9 and 10 have passed  Click on **Save Student Directory**  Select the Test-files folder and save it as *test\_records.txt*  Click Save  Close GUI | The Directory should be save as a text file in the test\_files folder | The Directory should be save as a text file in the test\_files folder |
| Test 13: Pull up new directory | Preconditions: Tests 12 has passed  Click on **New Student Directory** and then click on **Load Student Directory**. Go into *Test\_Files* and select *test\_records.txt*  Click select | The Directory you just saved is pulled up with the same 2 names as before | The Directory you just saved is pulled up with the same 2 names as before |
| Test 14: Removing multiple students | Preconditions: Tests 13 has passed  Highlight both students (one at a time) and click **Remove Student**  Check results | Both students should have been removed successfully and the Student Directory should be blank | Both students should have been removed successfully and the Student Directory should be blank |
| Test 15:  Add a pre-existing Student | Preconditions: Test 14 has passed  Add custom Student with name Jane“Doe“ in the bottom section where his ID is “JDoe”, email is [J.Doe@test.com](mailto:J.Doe@test.com), password is “pw” and creditsis 3  Click **Add Student**  Add custom Student with name Jane“Doe“ in the bottom section where his ID is “JDoe”, email is [J.Doe@test.com](mailto:J.Doe@test.com), password is “pw” and creditsis 3  (The exact same custom student as before)  Click **Add Student**  Check results | The first Jane Doe should go through successfully. The second Jane Doe should be declined with the error message “Student already on System” | The first Jane Doe should go through successfully. The second Jane Doe should be declined with the error message “Student already on System” |