# Lab 02: Black Box Test Plan

## Test Overview

There are 15 system-level black box tests. They will test the functions includes “Load Student Directory”, “New Student Directory”, “Save Student Directory”, “Add student” and “Remove Student” in the PackScheduler program

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| Test 1: Invalid File | Preconditions: none  Run StudentDirectoryPanel.  Press load student directory  select: test-files/invalid\_student\_records.txt  Click **Select**  *Check results*  Close GUI | StudentDirectoryPanel loads  Everything is empty | StudentDirectoryPanel loads  Everything is empty |
| Test 2: Valid File | Preconditions: None  Run StudentDirectoryPanel.  Press load student directory  select: test-files/student\_records.txt  Click **Select**  *Check results*  Close GUI | 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, | 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, |
| Test 3: New Student Directory | Preconditions: Test 2 has passed  Click **New Student Directory**  *Check results* | all student in the student Directory list has been removed | all student in the student Directory list has been removed |
| Test 4  Add invalid credits | Preconditions: Test 2 has passed  Enter First name: test  Enter Last name: tset  Enter ID: ttset1  Enter Email: [ttset1@ncsu.edu](mailto:ttset1@ncsu.edu)  Enter Password : 1234  Enter Repeat Password: 1234  Enter Max Credits: 128 | A pop-up dialog stating “Invalid max Credits.” is displayed. | A pop-up dialog stating “Invalid max Credits.” is displayed. |
| Test 5  Add valid student | Preconditions: Test 2 has passed  Enter First name: Atest  Enter Last name: Atset  Enter ID: AAtset1  Enter Email: AA[tset1@ncsu.edu](mailto:ttset1@ncsu.edu)  Enter Password : 1234  Enter Repeat Password: 1234  Enter Max Credits: 14 | Student directory contains 1 more student at first position  First name: Atest  Last name: Atset  Student ID: AAtset1 | Student directory contains 1 more student at first position  First name: Atest  Last name: Atset  Student ID: AAtset1 |
| Test 6  add several students | Preconditions: Test 2 and test 5 has passed  Enter First name: Test  Enter Last name: Tset  Enter ID: TTset1  Enter Email: [TTset1@ncsu.edu](mailto:TTset1@ncsu.edu)  Enter Password : 12345  Enter Repeat Password: 12345  Enter Max Credits: 15 | Student directory contains 2 more student  And the second student is at last position  Atest Atset AAtset1  Test Tset TTset1 | Student directory contains 2 more student  And the second student is at last position  Atest Atset AAtset1  Test Tset TTset1 |
| Test 7  Remove student | Preconditions: Test 2 and test 5 has passed  Select Student Test Tset.  Click “Remove Student” | Student directory contains 1 student  First name: Atest  Last name: Atset  Student ID: AAtset1 | Student directory contains 1 student  First name: Aest  Last name: Atset  Student ID: AAtset1 |
| Test 8:  add exist student | Preconditions: Test 2 and test 5 have passed  Enter First name: Atest  Enter Last name: Atest  Enter ID: AAtset1  Enter Email: [ttset1@ncsu.edu](mailto:ttset1@ncsu.edu)  Enter Password : 1234  Enter Repeat Password: 1234  Enter Max Credits: 14 | A pop-up dialog stating “student already in system” is displayed. | A pop-up dialog stating “student already in system” is displayed. |
| Test 9:  remove non-selected student | Preconditions: Test 2 has passed  make sure no student has been selected  Click “Remove Student” | A pop-up dialog stating “No student selected” is displayed. | A pop-up dialog stating “No student selected” is displayed. |
| Test 10:  Add non-selected student | Preconditions: Test 2 has passed  make sure no student information has been added  Click “Add Student” | A pop-up dialog stating “Max credits must be a positive number between 3 and 18” is displayed. | A pop-up dialog stating “Max credits must be a positive number between 3 and 18” is displayed. |
| Test 11: Add student with no information | Preconditions: Test 2 has passed  Enter MaxCredits:14  Click “Add Student” | A pop-up dialog stating “Invalid password” is displayed. | A pop-up dialog stating “Invalid password” is displayed. |
| Test 12: Add student with defective information | Preconditions: Test 2 has passed  Enter Password : 1234  Enter Repeat Password: 1234  Enter MaxCredits:14  Click “Add Student” | A pop-up dialog stating “Invalid first name” is displayed. | A pop-up dialog stating “Invalid password” is displayed. |
| Test 13:Add student with no email | Preconditions: Test 2 has passed  Enter First name: test  Enter Last name: test  Enter ID: ttset1  Enter Password : 1234  Enter Repeat Password: 1234  Enter Max Credits: 14  Click “Add Student” | A pop-up dialog stating “Invalid email” is displayed. | A pop-up dialog stating “Invalid email” is displayed. |
| Test 14: Add student with no id | Preconditions: Test 2 has passed  Enter First name: test  Enter Last name: test  Enter Email: [ttset1@ncsu.edu](mailto:ttset1@ncsu.edu)  Enter Password : 1234  Enter Repeat Password: 1234  Enter Max Credits: 14  Click “Add Student” | A pop-up dialog stating “Invalid id” is displayed. | A pop-up dialog stating “Invalid id” is displayed. |
| Test 15:Save student Directory | Preconditions: Test 2, 5 and 6has passed  Click “Save Student Directory”  type “StudentList” in save as  Click”Save” | A file called”StudentList” contains 2 more student after the student list in “student\_records” | A file called”StudentList” contains 2 more student after the student list in “student\_records” |