# 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: Load Invalid File | Preconditions: None   1. Run StudentDirectoryPanel 2. In the **Load Course Catalog** FileChooser dialog select: test-files/invalid\_student\_records.txt 3. Click **Select** 4. *Check results* | * PackScheduler Loads * Student Directory is empty * Student Information is empty | * **GUI Loads** * **Student Directory and Student info are both empty** |
| Test 2:  Load Valid File | Preconditions: None   1. Run StudentDirectoryPanel 2. In the **Load Course Catalog** FileChooser dialog select: test-files/student\_records.txt 3. Click **Select** 4. *Check results* | * PackScheduler Loads * Student Directory contains 10 students * Sorted in alphebetical order by last name: * Austin, Berg, Brennon, Frost, Hansen, Hicks, King, Nolan, Schwartz, Stone * Student Information is empty | * **GUI Loads** * **10 Students in directory** * **Sorted in alphebetical order by last name:** * **Austin, Berg, Brennon, Frost, Hansen, Hicks, King, Nolan, Schwartz, Stone** * **Student info empty** |
| Test 3:  Add Valid Student At End | Preconditions: test 2 passes   1. Type Tyler in the first name field 2. Type Tyler in the last name field 3. Type ttyler in the id field 4. Type [ttyler@ncsu.edu](mailto:ttyler@ncsu.edu) in the email field 5. Type tyler in the password field 6. Type tyler in the repeat password field 7. Type 7 in max credits field 8. Click Add Student | * A new student named Tyler Tyler with id ttyler is added to the bottom of the directory | * **Tyler, Tyler, ttyler student added to directory at end** |
| Test 17:  Add Valid Student At Beginning | Precondition: Test 2 passes   1. First name: Mister 2. Last name:AAAAA 3. ID: maaaaa 4. Email: [ihatemyparents@gmial.com](mailto:ihatemyparents@gmial.com) 5. Password: 123 6. Repeat Password: 123 7. Max Credits: 7 8. Click Add Student | * New student named Mister AAAAA with id maaaaa added to top of directory | * **Mister, AAAAA, added to directory at beginning** |
| Test 18: | Precondition: Test 2 passes   1. First name: Barack 2. Last name: Obama 3. ID: bobama 4. Email: [potus@merica.gov](mailto:potus@merica.gov) 5. Password: 123 6. Repeat Password: 123 7. Max Credits: 7 8. Click Add Student | * New Student named Barack Obama with id bobama added at 10th spot in directory | * **Barack Obama added to directory at 10th spot.** |
| Test 4:  Remove Student | Preconditions: Test 2 and 3 passes   1. Select Tyler Tyler in student directory 2. Click remove student | * Tyler Tyler is no longer in the student directory | * **Tyler Tyler removed from directory** |
| Test 5:  Add Invalid Student with No first Name | Preconditions: Test 2 passes   1. Type Tyler in the last name field 2. Type ttyler in the id field 3. Type [ttyler@ncsu.edu](mailto:ttyler@ncsu.edu) in the email field 4. Type tyler in the password field 5. Type tyler in the repeat password field 6. Type 7 in max credits field 7. Click Add Student | * Pop up window appears with message “Invalid first name” * The student is not added to the directory | * **Pop up window appears with correct message** * **Student was not added to directory** |
| Test 6:  Add Invalid Student with no Last Name | Preconditions: Test 2 passes   1. Type Tyler in the first name field 2. Type ttyler in the id field 3. Type [ttyler@ncsu.edu](mailto:ttyler@ncsu.edu) in the email field 4. Type tyler in the password field 5. Type tyler in the repeat password field 6. Type 7 in max credits field 7. Click Add Student | * Pop up window appears with the message “Invalid last name” * Student is not added to the student directory | * **Pop up window appears with correct message** * **Student was not added to directory** |
| Test 7:  Add invalid student with no ID | Preconditions: Test 2 passes   1. Type Tyler in the first name field 2. Type Tyler in the last name field 3. Type [ttyler@ncsu.edu](mailto:ttyler@ncsu.edu) in the email field 4. Type tyler in the password field 5. Type tyler in the repeat password field 6. Type 7 in max credits field 7. Click Add Student | * Pop up window appears with “Invalid id” * Student is not added to the student directory | * **Pop up window appears with correct message** * **Student was not added to directory** |
| Test 8:  Add invalid student with no email | Preconditions; Test 2 passes   1. Type Tyler in the first name field 2. Type Tyler in the last name field 3. Type ttyler in the id field 4. Type tyler in the password field 5. Type tyler in the repeat password field 6. Type 7 in max credits field 7. Click Add Student | * Pop up window with the message “Invalid email” * Student is not added to the student directory | * **Pop up window appears with correct message** * **Student was not added to directory** |
| Test 9:  Add invalid student with no @ symbol in email | Preconditions: Test 2 passes   1. Type Tyler in the first name field 2. Type Tyler in the last name field 3. Type ttyler in the id field 4. Type [ttylerncsu.edu](mailto:ttyler@ncsu.edu) in the email field 5. Type tyler in the password field 6. Type tyler in the repeat password field 7. Type 7 in max credits field 8. Click Add Student | * Pop up window with the message “Invalid email” * Student not added to the directory | * **Pop up window appears with correct message** * **Student was not added to directory** |
| Test 10:  Add invalid student with no . symbol after @ symbol | Preconditions: Test 2 passes   1. Type Tyler in the first name field 2. Type Tyler in the last name field 3. Type ttyler in the id field 4. Type [ttyler@ncsuedu](mailto:ttyler@ncsu.edu) in the email field 5. Type tyler in the password field 6. Type tyler in the repeat password field 7. Type 7 in max credits field 8. Click Add Student | * Pop up window with the message “Invalid email” * Student not added to directory | * **Pop up window appears with correct message** * **Student was not added to directory** |
| Test 11: Add invalid student with . before @ but not after | Preconditions: Test 2 passes   1. Type Tyler in the first name field 2. Type Tyler in the last name field 3. Type ttyler in the id field 4. Type [t.tyler@ncsuedu](mailto:t.tyler@ncsuedu) in the email field 5. Type tyler in the password field 6. Type tyler in the repeat password field 7. Type 7 in max credits field 8. Click Add Student | * Pop up window with the message “Invalid email” * Student not added to directory | * **Pop up window appears with correct message** * **Student was not added to directory** |
| Test 12:  Add invalid student with no password | Preconditions: Test 2 passes   1. Type Tyler in the first name field 2. Type Tyler in the last name field 3. Type ttyler in the id field 4. Type [ttyler@ncsu.edu](mailto:ttyler@ncsu.edu) in the email field 5. Type tyler in the repeat password field 6. Type 7 in max credits field 7. Click Add Student | * Pop up window with the message “Invalid password” * Student not added to directory | * **Pop up window appears with correct message** * **Student was not added to directory** |
| Test 13:  Add invalid student with no repeat password | Preconditions: Test 2 passes   1. Type Tyler in the first name field 2. Type Tyler in the last name field 3. Type ttyler in the id field 4. Type [ttyler@ncsu.edu](mailto:ttyler@ncsu.edu) in the email field 5. Type tyler in the password field 6. Type 7 in max credits field 7. Click Add Student | * Pop up window with the message “Invalid password” * Student not added to directory | * **Pop up window appears with correct message** * **Student was not added to directory** |
| Test 14:  Add invalid student with mismatched passwords | Preconditions: Test 2 passes   1. Type Tyler in the first name field 2. Type Tyler in the last name field 3. Type ttyler in the id field 4. Type [ttyler@ncsu.edu](mailto:ttyler@ncsu.edu) in the email field 5. Type tyler in the password field 6. Type taylor in the repeat password field 7. Type 7 in max credits field 8. Click Add Student | * Pop up window with the message “Passwords do not match” * Student not added to directory | * **Pop up window appears with correct message** * **Student was not added to directory** |
| Test 15:  Add valid student with blank max credits | Preconditions: Test 2 passes   1. Type Tyler in the first name field 2. Type Tyler in the last name field 3. Type ttyler in the id field 4. Type [ttyler@ncsu.edu](mailto:ttyler@ncsu.edu) in the email field 5. Type tyler in the password field 6. Type tyler in the repeat password field 7. Click Add Student | * Tyler Tyler successfully added to directory | * **Tyler Tyler was added to directory** |
| Test 16:  Save Valid student directory | Preconditions: Test 2 passes   1. Click Save Student Directory 2. Name the file “actual\_student\_records2.txt” 3. Click save | * expected\_full\_student\_sorted\_records.txt matches actual\_student\_records\_2.txt | * **actual\_student\_records\_2.txt is created** * **output file matches expected\_full\_student\_sorted\_records.txt** |