# Lab 03: Black Box Test Plan

## Test Overview

To open the GUI:

* Right-click on PackScheduler in the PackageExplorer and click Run As > Java Application
* Select StudentDirectoryPanel – edu.ncsu.csc216.pack\_shceduler\_ui and click OK

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| Test 1  LoadActualRecords | Preconditions: PackScheduler Compiles   * Open GUI * Click **Load Student Directory** * Double-click **test-files** * Select **student\_records.txt** and click **Select** * Check Results * Close GUI | * There are 10 rows each with three columns in the Student Directory * The first row is Demetrius, Austin, daustin * The last (10th) row is Griffith, Stone, gstone | * There are 10 rows each with three columns in the Student Directory * The first row is Demetrius, Austin, daustin * The last (10th) row is Griffith, Stone, gstone |
| Test 2  InvalidRecords | Preconditions: PackScheduler Compiles   * Open GUI * Click **Load Student Directory** * Double-click **test-files** * Select **invalid\_student\_records.txt** and click **Select** * Checks Results * Close GUI | * The Student Directory is empty | * The Student Directory is empty |
| Test 3  NoFile | Preconditions: PackScheduler Compiles   * Click **Load Student Directory** * Type **potato.txt** in the file name * Click **Select** * Check Results * Click **OK** * Check Results * Close GUI | * A pop-up saying “Unable to read file [FILEPATH HERE]\potato.txt” appears | * A pop-up saying “Unable to read file C:\Users\Joseph\git\csc216-203-L-08\PackScheduler\potato.txt” appears |
| Test 4  BadFileType | Preconditions: PackScheduler Compiles   * Click **Load Student Directory** * Select the **.project** file * Click **Select** * Check Results * Close GUI | * The file selection window is closed. * The Student Directory is empty | * The file selection window is closed. * The Student Directory is empty |
| Test 5  AddValidStudentToDirectory | Preconditions: PackScheduler Compiles and Test 1 passes   * Load student\_records.txt * In the Student Information boxes add the following information:   + First Name: **Carrie**   + Last Name: **Card**   + ID: **ccard**   + Email: [**ccard@ncsu.edu**](mailto:ccard@ncsu.edu)   + Password: **pwd**   + Repeat Password: **pwd**   + Max Credits: **15** * Check results * Close GUI | * There are 11 rows each with three columns * The fourth row is: Carrie, Card, ccard | * There are 11 rows each with three columns * The fourth row is: Carrie, Card, ccard |
| Test 6  AddInvalidStudentNoFirstName | Preconditions: PackScheduler Compiles   * In the Student Information boxes add the following information:   + First Name:   + Last Name: **Card**   + ID: **ccard**   + Email: [**ccard@ncsu.edu**](mailto:ccard@ncsu.edu)   + Password: **pwd**   + Repeat Password: **pwd**   + Max Credits: **15** * Check results * Close GUI | * Popup that says “Invalid first name” | * Popup that says “Invalid first name” |
| Test 7  AddInvalidStudentNoLastName | Preconditions: PackScheduler Compiles   * In the Student Information boxes add the following information:   + First Name: **Carrie**   + Last Name:   + ID: **ccard**   + Email: [**ccard@ncsu.edu**](mailto:ccard@ncsu.edu)   + Password: **pwd**   + Repeat Password: **pwd**   + Max Credits: **15** * Check results * Close GUI | * Popup that says “Invalid last name” | * Popup that says “Invalid last name” |
| Test 8  AddInvalidStudentNoID | Preconditions: PackScheduler Compiles   * In the Student Information boxes add the following information:   + First Name: **Carrie**   + Last Name: **Card**   + ID:   + Email: [**ccard@ncsu.edu**](mailto:ccard@ncsu.edu)   + Password: **pwd**   + Repeat Password: **pwd**   + Max Credits: **15** * Check results * Close GUI | * Popup that says “Invalid id” | * Popup that says “Invalid id” |
| Test 9  AddInvalidStudentNoEmail | Preconditions: PackScheduler Compiles   * In the Student Information boxes add the following information:   + First Name: **Carrie**   + Last Name: **Card**   + ID: **ccard**   + Email:   + Password: **pwd**   + Repeat Password: **pwd**   + Max Credits: **15** * Check results * Close GUI | * Popup that says “Invalid email” | * Popup that says “Invalid email” |
| Test 10  AddInvalidStudentPasswordsDontMatch | Preconditions: PackScheduler Compiles   * In the Student Information boxes add the following information:   + First Name: **Carrie**   + Last Name: **Card**   + ID: **ccard**   + Email: [**ccard@ncsu.edu**](mailto:ccard@ncsu.edu)   + Password: **password**   + Repeat Password: **pwd**   + Max Credits: **15** * Check results * Close GUI | * Popup that says “Passwords do not match” | * Popup that says “Passwords do not match” |
| Test 11  DeleteEmptyStudent | Preconditions: PackScheduler compiles and there are no students in Student Directory   * **Remove Student** button is clicked * Check results * Close GUI | * Popup that says “No student selected.” | * Popup that says “No student selected.” |
| Test 12  DeleteStudent | Preconditions: PackScheduler Compiles   * In the Student Information boxes add the following information:   + First Name: **Carrie**   + Last Name: **Card**   + ID: **ccard**   + Email: [**ccard@ncsu.edu**](mailto:ccard@ncsu.edu)   + Password: **pwd**   + Repeat Password: **pwd**   + Max Credits: **15** * Check results * Click the **first row** under Student Directory * Click the **Remove Student** button * Check results * Close GUI | * There is one row with three columns that are: Carrie, Card, ccard * The row with Carrie, Card, ccard is deleted | * There is one row with three columns that are: Carrie, Card, ccard * The row with Carrie, Card, ccard is deleted |
| Test 13  DeleteOneOfManyStudents | Preconditions: PackScheduler Compiles   * Open GUI * Click **Load Student Directory** * Double-click **test-files** * Select **student\_records.txt** and click **Select** * Check Results * Click the **first row** in Student Directory (Demetrius, Austin, daustin) and click the **Remove Student** button * Check Results | * There are 10 rows in the Student Directory; first row is Demetrius, Austin, daustin; last row is Griffith, Stone, gstone * The row with Demetrius, Austin, daustin is removed, and the row with Lane, Berg, lberg is now the first row; there are now 9 rows in the Student Directory | * There are 10 rows in the Student Directory; first row is Demetrius, Austin, daustin; last row is Griffith, Stone, gstone * The row with Demetrius, Austin, daustin is removed, and the row with Lane, Berg, lberg is now the first row; there are now 9 rows in the Student Directory |
| Test 14  NewStudentDirectory | Preconditions: PackScheduler compiles and Test 13 passes with results on screen   * Click **New Student Directory** * Check Results * Close GUI | * The 9 rows in Student Directory disappear | * The 9 rows in Student Directory disappear |
| Test 15  SaveStudentDirectoryNewFile | Preconditions: PackScheduler compiles and Test 13 passes with results on screen   * Click **Save Student Directory** * Double-click **test-files** * Type in **saved\_directory.txt** and click **save** * Open **test-files/saved\_directory.txt** * Check Results * Close text file | * test-files/saved\_directory.txt opens and contains 9 lines * First line is Lane,Berg,lberg,sociis@non.org,[HASHED PASSWORD],14 * Last line is Griffith,Stone,gstone,porta@magnamalesuadavel.net,[HASHED PASSWORD],17 | * test-files/saved\_directory.txt opens and contains 9 lines * First line is Lane,Berg,lberg,sociis@non.org,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,14 * Last line is Griffith,Stone,gstone,porta@magnamalesuadavel.net,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,17 |
| Test 16  SaveStudentDirectoryExistingFile | Preconditions: PackScheduler compiles and Test 15 passes with WolfScheduler GUI on screen   * Click the **first row** in Student Directory (Lane, Berg, lberg) and click the **Remove Student** button * Click **Save Student Directory** * Double-click **test-files** * Double-click **saved\_directory.txt** * Open **test-files/saved\_directory.txt** * Check Results * Close GUI | * test-files/saved\_directory.txt opens and contains 8 lines * First line is Raymond,Brennan,rbrennan,litora.torquent@pellentesquemassalobortis.ca,[HASHED PASSWORD],12 * Last line is Griffith,Stone,gstone,porta@magnamalesuadavel.net,[HASHED PASSWORD],17 | * test-files/saved\_directory.txt opens and contains 8 lines * First line is Raymond,Brennan,rbrennan,litora.torquent@pellentesquemassalobortis.ca,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,12 * Last line is Griffith,Stone,gstone,porta@magnamalesuadavel.net,0ÉRú±"ÃùuŸ¦Ù\7X²F´þâ9•{-OîFâapÄ,17 |