# Lab 02: System 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** |
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| Test 1:  Invalid File | Preconditions: None   1. Run StudentDirectoryPanel 2. Click Load Student Directory, and select: test-files/invalid\_student\_records.txt 3. Check results 4. Close GUI | * PackSchedulePanel loads * Student Directory is empty * Student Information is empty | PackSchedulePanel loads. There are 4 sections: Directory Buttons, Student Directory, Student Controls, and Student Information. Student Directory is empty, and the text boxes for Student Information are unfilled. |
| Test 2:  Valid File | Preconditions: None   1. Run StudentDirectoryPanel 2. Click Load Student Directory, and select: test-files/starter\_student\_records.txt 3. Check results 4. Close GUI | PackSchedulePanel loads  Student Directory contains 10 students   * Demetrius, Austin, daustin * Lane, Berg, lberg * Raymond, Brennan, rbrennan, * Emerald, Frost, efrost * Shannon, Hansen, shansen * Althea, Hicks, ahicks * Zahir, King, zking * Dylan, Nolan, dnolan * Cassandra, Swartz, cschwartz * Griffith, Stone, gstone | PackSchedulePanel displays 10 sorted students in the Student Information section. Other sections remain unchanged. |
| Test 3:  Invalid File Name | Preconditions: None   1. 51Run StudentDirectoryPanel 2. Click Load Student Directory, and type “asdf” as the File Name and hit enter. 3. Check results 4. Close GUI | PackSchedulePanel loads  A pop-up dialog stating “Unable to read file ” + the file name. | A closeable pop-up appears stating “Unable to read file C:\Users\amodi\git\csc217-LR1-214-01\PackScheduler\asdf” |
| Test 4: New Student Directory | Preconditions: Test 2 passes   1. Click the New Student Directory button 2. Check results 3. Close GUI | Student Directory is now empty | PackSchedulePanel is reset, as if nothing were loaded. Student Directory is empty. |
| Test 5:  Add Student  Button | Preconditions: None   1. Run StudentDirectoryPanel 2. Fill in all of the student information 3. Click Add Student 4. Check Student Directory 5. Check results 6. Close GUI | Student Directory Now Displays the newly created student | The project loads, the student directory fields are able to be filled in, the add student button gives no messages, the filled in information is now displayed in the student directory |
| Test 6:  Remove Student | Precondition: Test 2 passes   1. Click on the 3rd row of Student Directory: Raymond, Brennan, rbrennan 2. Click the Remove Student buttons 3. Check results 4. Close GUI | Student Directory contains 9 students   * Demetrius, Austin, daustin * Lane, Berg, lberg * Emerald, Frost, efrost * Shannon, Hansen, shansen * Althea, Hicks, ahicks * Zahir, King, zking * Dylan, Nolan, dnolan * Cassandra, Swartz, cschwartz * Griffith, Stone, gstone | PackSchedulePanel loads. After selecting the 3rd row and clicking remove student, Student Directory removes the selected row. There are now 9 sorted students in the directory. |
| Test 7:  Remove Student - Nothing Selected | Precondition: Test 2 passes   1. Make sure that no row in Student Directory is selected 2. Click the Remove Student button 3. Check results 4. Close GUI | A pop-up dialog stating “No student selected.”  Student Directory remains unchanged. | A closeable pop-up appears stating “No student selected.” There are still 10 sorted students in the Student Directory. |
| Test 8:  Save Student Directory | Precondition: None   1. Click save student directory 2. Choose a valid file location and click save 3. Check results 4. Close GUI | Your student directory should now be saved in the designated location | The project loads, the save button opens up to the file explorer, able to select a file, file is savable and shows up in the designated location |
| Test 9:  Invalid First Name | Precondition: Test 5   1. Go to the student information panel 2. Enter a password and reenter password 3. Leave the rest blank 4. Click add student button 5. Check results | A pop-up message should display saying “Invalid First Name” | The project loads, password and re-enter password are filled in, add student button is clicked, message pops up saying invalid first name |
| Test 10:  Invalid last name | Precondition: Test 5 and 9   1. Go to the student information panel 2. Enter a valid password and reenter password 3. Enter a valid first name 4. Leave everything else blank 5. Click add student button | A pop-up message should display saying “Invalid last Name” | The project loads, password and re-enter password are filled in, first name is filled in, add student button is clicked, message pops up saying invalid last name |
| Test 11:  Invalid ID | Precondition: Test 5, 9,10   1. Go to the student information panel 2. Enter a valid password and reenter password 3. Enter a valid first name 4. Enter a valid last name 5. Leave everything else blank 6. Click add student button | A pop-up message should display saying “Invalid id” | The project loads, password and re-enter password are filled in, first name is filled in, last name is filled in, add student button is clicked, message pops up saying invalid id |
| Test 12:  Invalid email | Precondition: Test 5, 9, 10, 11   1. Go to the student information panel 2. Enter a valid password and reenter password 3. Enter a valid first name 4. Enter a valid last name 5. Enter a valid id 6. Leave everything else blank 7. Click add student button | A pop-up message should display saying “Invalid email” | The project loads, password and re-enter password are filled in, first name is filled in, last name is filled in, id is filled in, add student button is clicked, message pops up saying invalid email |
| Test 13:  Invalid Password | Precondition: Test 5   1. Go To the student directory 2. Leave everything blank 3. Click add student 4. Check results | A pop-up message should display saying “invalid password” | Project loads, everything is left blank in the student directory text boxes, add student button is clicked, pop-up displays invalid password. |
| Test 14:  Max Credits | Precondition: Test 5, 9, 10, 11   1. Go to student directory 2. Fill out all of the textbox fields 3. Fill out the max credits field 4. Click add student 5. Check results | The student should be added, the max credits should be added alongside. | Project loads, filled out all of the student directory textbox fields, filled out max credit fields, clicked add student, no errors student is added accordingly |
| Test 15:  Loading a saved student directory | Precondition: 8   1. Go to the file location where you previously saved the student directory 2. Open the file 3. Click the file 4. Click select 5. Check results | The directory that you had saved should now be opened and displaying proper information | Project loads, saved a previously loaded directory, click the load directory button, able to load the saved directory into the student directory with no changes |