# Lab 03: Black Box Test Plan

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| Test 1:  Invalid File | Preconditions: None  Run StudentDirectoryPanel.  In the **Load Student Directory** FileChooser dialog select: test-files/invalid\_student\_records.txt  Click **Select**  *Check results*  Close GUI | StudentDirectoryPanel loads  Student Directory is empty | StudentDirectoryPanel loads  Student Directory is empty |
| Test 2:  Valid File  (modified) | Preconditions: None  Run StudentDirectoryPanel.  In the **Load Student Directory** FileChooser dialog select: test-files/student\_records.txt  Click **Select**  *Check results*  Close GUI | StudentDirectoryPanel loads  Student Record contains 10 students sorted by alphabetical order.   * Demetrius,Austin,daustin * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Emerald,Frost,efros * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone,gstone | StudentDirectoryPanel loads  Student Record contains 10 students sorted by alphabetical order   * Demetrius,Austin,daustin * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Emerald,Frost,efros * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone,gstone |
| Test 3:  Remove- No Selection | Preconditions: Test 2 has passed  Make sure that no row in the Student Directory table is selected (if there is a row selected, restart the GUI)  Click **Remove Student**  *Check results*  Click **OK**  Close GUI | A pop-up dialog stating “ No Student selected” is displayed | A pop-up dialog stating “ No Student selected” is displayed |
| Test 4:  Remove Student  (modified) | Preconditions: Test 2 and 3 have passed  Select the 9th row of Student Directory  (Cassandra, Schwartz, cscwartz)  Click **Remove Student**  *Check results*  Click **OK**  Close GUI | Student Record contains 9 students   * Demetrius,Austin,daustin * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Emerald,Frost,efros * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Dylan,Nolan,dnolan * Griffith,Stone,gstone | Student Record contains 9 students   * Demetrius,Austin,daustin * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Emerald,Frost,efros * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Dylan,Nolan,dnolan * Griffith,Stone,gstone |
| Test 5:  Add - Student:  (modified) | Preconditions: Test 2 has passed  Fill in:  · First Name : Jacob  · Last Name: Myers  · ID: jrmyers  · Email: jrmyers@ncsu.edu  · Password: pass  · Repeat Password: pass  · Max Credits: 6    Click Add Student | New row is added at 8th row with the first name as Jacob, last name as Myers, and ID as jrmyers  Student Record contains 11 students   * Demetrius,Austin,daustin * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Emerald,Frost,efros * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Jacob,Myers,jrmyers * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone,gstone | New row is added at 8th row with the first name as Jacob, last name as Myers, and ID as jrmyers  Student Record contains 11 students   * Demetrius,Austin,daustin * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Emerald,Frost,efros * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Jacob,Myers,jrmyers * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone,gstone |
| Test 6:  Export | Preconditions: Test 2 and 5 have passed  Click **Save Student Directory**  Select test-files folder. Enter the filename  Actual\_student\_records.txt  Click **Save** | Refresh Eclipse  Open the test-files folder and open actual\_student\_record.txt in the editor.  The contents should be: 11 students | Refresh Eclipse  Open the test-files folder and open actual\_student\_record.txt in the editor.  The contents should be: 11 students |
| Test 7:  Reset  (New Student Directory) | Preconditions: Test 2 and 5 have passed  Click **New Student Directory**  *Check results*  Close GUI | Student Directory is empty | Student Directory is empty |
| Test 16:  Add – duplicate student  (new) | Preconditions: Test 2 and 5 have passed  Fill in:  · First Name : Jacob  · Last Name: Myers  · ID: jrmyers  · Email: jrmyers@ncsu.edu  · Password: pass  · Repeat Password: pass  · Max Credits: 6    Click Add Student  *Check results*  Close GUI | A pop-up dialog stating “Student already in system” is displayed | A pop-up dialog stating “Student already in system” is displayed |
| Test 17:  Add – student with same last name  (NEW) | Preconditions: Test 2, 5, and 16 have passed  Fill in:  · First Name : Aaron  · Last Name: Myers  · ID: amyers  · Email: amyers@ncsu.edu  · Password: pass  · Repeat Password: pass  · Max Credits: 6    Click Add Student  *Check results*  Close GUI | New row is added at 8th row with the first name as Aaron, last name as Myers, and ID as amyers  Student Record contains 12 students   * Demetrius,Austin,daustin * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Emerald,Frost,efros * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Aaron,Myers,amyers * Jacob,Myers,jrmyers * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone,gstone | New row is added at 8th row with the first name as Aaron, last name as Myers, and ID as amyers  Student Record contains 12 students   * Demetrius,Austin,daustin * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Emerald,Frost,efros * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Aaron,Myers,amyers * Jacob,Myers,jrmyers * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone,gstone |
| Test 18:  Add – student with same last name and first name  (NEW) | Preconditions: Test 2, 5, 16, and 17 have passed  Fill in:  · First Name : Aaron  · Last Name: Myers  · ID: amyers2  · Email: amyers2@ncsu.edu  · Password: pass  · Repeat Password: pass  · Max Credits: 6    Click Add Student  *Check results*  Close GUI | New row is added at 9th row with the first name as Aaron, last name as Myers, and ID as amyers2  Student Record contains 13 students   * Demetrius,Austin,daustin * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Emerald,Frost,efros * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Aaron,Myers,amyers * Aaron,Myers,amyers2 * Jacob,Myers,jrmyers * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone,gstone | New row is added at 9th row with the first name as Aaron, last name as Myers, and ID as amyers2  Student Record contains 13 students   * Demetrius,Austin,daustin * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Emerald,Frost,efros * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Aaron,Myers,amyers * Aaron,Myers,amyers2 * Jacob,Myers,jrmyers * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone,gstone |

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| Test 8:  TestInvalidFirstName: | Run PackScheduler    Fill in:  · Last Name: Myers  · ID: 200111111  · Email: jrmyers@ncsu.edu  · Password: pass  · Repeat Password: pass  · Max Credits: 6    Click Add Student | A dialog box opens with the message “Invalid first name” | A dialog box opens with the message “Invalid first name” |

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| Test 9:  TestInvalidLastName: | Run PackScheduler    Fill in:  · First Name: Jacob  · ID: 200111111  · Email: jrmyers@ncsu.edu  · Password: pass  · Repeat Password: pass  · Max Credits: 6    Click Add Student | A dialog box opens with the message “Invalid last name” | A dialog box opens with the message “Invalid last name” |

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| Test 10:  TestInvalidID: | Run PackScheduler    Fill in:  · First Name: Jacob  · Last Name: Myers  · Email: jrmyers@ncsu.edu  · Password: pass  · Repeat Password: pass  · Max Credits: 6    Click Add Student | A dialog box opens with the message “Invalid id” | A dialog box opens with the message “Invalid id” |

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| Test 11:  TestInvalidEmail: | Run PackScheduler    Fill in:  · First Name: Jacob  · Last Name: Myers  · ID: 200111111  · Password: pass  · Repeat Password: pass  · Max Credits: 6    Click Add Student | A dialog box opens with the message “Invalid email” | A dialog box opens with the message “Invalid email” |

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| Test 12:  TestInvalidPassword: | Run PackScheduler    Fill in:  · First Name: Jacob  · Last Name: Myers  · ID: 200111111  · Email: jrmyers@ncsu.edu  · Max Credits: 6    Click Add Student | A dialog box opens with the message “Invalid password” | A dialog box opens with the message “Invalid password” |

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| Test 13:  TestInvalidCreditsLow: | Run PackScheduler    Fill in:  · First Name: Jacob  · Last Name: Myers  · ID: 200111111  · Email: [jrmyers@ncsu.edu](mailto:jrmyers@ncsu.edu)  · Password: pass  · Password: pass  · Max Credits: 2    Click Add Student | A dialog box opens with the message “Invalid max credits” | A dialog box opens with the message “Invalid max credits” |

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| Test 14:  TestInvalidCreditsHigh: | Run PackScheduler    Fill in:  · First Name: Jacob  · Last Name: Myers  · ID: 200111111  · Email: [jrmyers@ncsu.edu](mailto:jrmyers@ncsu.edu)  · Password: pass  · Password: pass  · Max Credits: 19    Click Add Student | A dialog box opens with the message “Invalid max credits” | A dialog box opens with the message “Invalid max credits” |
| Test 15:  TestMultipleStudents | Run PackScheduler  Fill in:  · First Name: Jacob  · Last Name: Myers  · ID: 200111111  · Email: [jrmyers@ncsu.edu](mailto:jrmyers@ncsu.edu)  · Password: pass  · Password: pass  · Max Credits: 15  Click Add Student  Fill in:  First Name: Jacob  · Last Name: Myers  · ID: 200111111  · Email: [jdmyers@ncsu.edu](mailto:jrmyers@ncsu.edu)  · Password: passe  · Password: passe  · Max Credits: 15 | Dialog Box pops up saying “Student Already In System” | Dialog Box pops up saying “Student Already In System” |