# Lab 03: Black Box Test Plan

## Test Overview

There are 15 system-level black box tests.

To run the tests:

1. Right click on StudentP class in the Package Explorer.
2. Select Run As > Java Application

The FileChooser for the course catalog will load automatically.

All tests files are located in the test-files/ folder and the contents of the files used in testing are below:

*Invalid\_students\_records.txt*

King,zking,orci.Donec@ametmassaQuisque.com,HNZ62IQV3XZ,15

Zahir,,zking,orci.Donec@ametmassaQuisque.com,HNZ62IQV3XZ,15

Zahir,King,orci.Donec@ametmassaQuisque.com,HNZ62IQV3XZ,15

Zahir,King,zking,orci.Donec@ametmassaQuisquecom,HNZ62IQV3XZ,15

Zahir,King,zking,orci.Donec@ametmassaQuisque.com,15

Zahir,King,zking,orci.Donec@ametmassaQuisque.com,HNZ62IQV3XZ,-1

*students\_records.txt*

Zahir,King,zking,orci.Donec@ametmassaQuisque.com,0�R��"��u���\7X�F���9�{-O�F�ap�,15

Cassandra,Schwartz,cschwartz,semper@imperdietornare.co.uk,0�R��"��u���\7X�F���9�{-O�F�ap�,4

Shannon,Hansen,shansen,convallis.est.vitae@arcu.ca,0�R��"��u���\7X�F���9�{-O�F�ap�,14

Demetrius,Austin,daustin,Curabitur.egestas.nunc@placeratorcilacus.co.uk,0�R��"��u���\7X�F���9�{-O�F�ap�,18

Raymond,Brennan,rbrennan,litora.torquent@pellentesquemassalobortis.ca,0�R��"��u���\7X�F���9�{-O�F�ap�,12

Emerald,Frost,efrost,adipiscing@acipsumPhasellus.edu,0�R��"��u���\7X�F���9�{-O�F�ap�,3

Lane,Berg,lberg,sociis@non.org,0�R��"��u���\7X�F���9�{-O�F�ap�,14

Griffith,Stone,gstone,porta@magnamalesuadavel.net,0�R��"��u���\7X�F���9�{-O�F�ap�,17

Althea,Hicks,ahicks,Phasellus.dapibus@luctusfelis.com,0�R��"��u���\7X�F���9�{-O�F�ap�,11

Dylan,Nolan,dnolan,placerat.Cras.dictum@dictum.net,0�R��"��u���\7X�F���9�{-O�F�ap�,5

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| Test 1:  invalid file  test-files/Invalid\_course\_records.txt | Preconditions: none   1. Run StudentDirectoryPanel 2. In the Load Student Directory fileChooser   Dialog select:  test-files/Invalid\_course\_records.txt   1. Click select 2. Check results 3. Close GUI | StudentDirectoryPanel loads  Student directory is empty  Student information only shows labels  Student information section is empty | **The actual results seem to match what is expected. All the indicted fields appear like they are supposed to.** |
| Test 2:  (modified)  Valid File test | Preconditions : None   1. Run StudentDirectoryPanel 2. In the Load Student Directory fileChooser Dialog select:   test-files/Students \_records.txt   1. Click select 2. Check results 3. Close GUI | StudentDirectoryPanel loads  Student Directory loads  10 Students should load as follows   * 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,Schwartz,cschwartz * Griffith,Stone   Student information is empty and only shows labels | **After selecting Students\_records in test-files all 10 students were successfully added to the student Directory** |
| Test 3:  Add student with different password entry | Preconditions : none   1. Run StudentDirectoryPanel 2. Input the following information   First name: Mary  Last name: ann  ID: mann  Email: [mann@ncsu.edu](mailto:mann@ncsu.edu)  Password: kkllann  Repeat Password: kkllan  Max Credits 3   1. Click add students 2. Check results 3. Close GUI | A pop-up dialog stating “Passwords do not match” | **After putting all the specified information of the student in the empty space a pop-up dialog comes up saying “Passwords do not match”** |
| Test 4:  Add studnet with null password | Preconditions : none   1. Run StudentDirectoryPanel 2. Input the following information   First name: Mary  Last name: ann  ID: mann  Email: [mann@ncsu.edu](mailto:mann@ncsu.edu)  Password:  Repeat Password:  Max Credits 3   1. Click add students 2. Check results 3. Close GUI | A pop-up dialog stating “Invalid password” | **After putting all the specified information of the student in the empty space a pop-up dialog comes up saying “Invalid Password”** |
| Test 5:  Clear student directory | Preconditions: Test 2 has passed   1. Click New Student Directory 2. Check result 3. Close GUI | The student Directory is be empty  Student information is empty | **After conducting test 2 I clicked the new students directory and all the students were erased from my students directory .** |
| Test 6:  (Modified )  Compare add student by last name | Preconditions : none   1. Run StudentDirectoryPanel   3.Input the following information  First name: James  Last name: Franklin  ID: Jfrank  Email: JF[@ncsu.edu](mailto:mann@ncsu.edu)  Password: JFloner  Repeat Password: JFloner  Max Credits: 22  4.Input the following information  First name: James  Last name: Bond  ID: 007  Email: Jamesbond[@licenseto kill.edu](mailto:mann@ncsu.edu)  Password: casiono  Repeat Password: casiono  Max Credits: 77   1. Click add students 2. Check results 3. Close GUI | Student directory displayed   |  |  |  | | --- | --- | --- | | First name | Last name | Student ID | | James | Bond | 007 | | James | Franklin | JFloner |   Student information is empty  Order is kept by last name | **After putting all the specified information of the student in the empty space the students were added successfully as said in the expected values. And the list was compared by their last name.** |
| Test 7:  (modified)  Remove Student | Preconditions: test 2 has passed   1. Select the first row of Student directory 2. Click Remove Student 3. Select the third row of student directory 4. Click remove student 5. Check results 6. Close gui | Student Directory display   * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone | **After conducting Test 2 I then proceeded to select the first row and click remove and then the student was removed**  **Next i selected the Third row of student from my student directory and them i Removed it by clicking remove student. The final result of the actual test aligns with the expected results.** |
| Test 8:  Modified  Add student  Without first name | Preconditions test 7 has passed   1. Add the following student in Student information   First name:  Last name: ann  ID: mann  Email: [mann@ncsu.edu](mailto:mann@ncsu.edu)  Password: kkllann  Repeat Password: kkllann  Max Credits: 6  2. Click add students  3.check results | A pop-up dialog stating “Invalid first name”  Student Directory display   * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone | **After putting all the specified information of the student in the empty space a pop-up dialog comes up saying “Invalid First name”** |
| Test 9:  Invalid email | Preconditions Test 7 has passed  1.Add the following student in Student information  First name:Mary  Last name: ann  ID: mann  Email: mann@ncsuedu  Password: kkllann  Repeat Password: kkllann  Max Credits: 6  2. Click add students  3.check results  4. Close GUI | A pop-up dialog stating “Invalid email”  Student Directory Display   * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone | **After putting all the specified information of the student in the empty space a pop-up dialog comes up saying “Invalid email”** |
| Test 10:  Add student with same ID | Preconditions Test 7 has passed  1.add the following student in Students Infromation  First name: Cassandra  Last Name: Schwartz  ID: cschwartz  Email: CS@ncsuedu  password : k  Repeat Password: k  Max Credits : 5  4. Close GUI | A pop-up dialog stating “Student already in system”  Student Directory Display   * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone | **After putting all the specified information of the student in the empty space a pop-up dialog comes up saying “Student already in System”** |
| Test 11:  Student with Null ID | Preconditions Test 7 has passed  1.Add the following student in Student information  First name:Mary  Last name: ann  ID:  Email: [mann@ncsuedu](mailto:mann@ncsu.edu)  Password: kkllann  Repeat Password: kkllann  Max Credits: 6  2. Click add students  3.check results  4. Close GUI | A pop-up dialog stating “invalid id”  Student Directory Display   * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone | **After putting all the specified information of the student in the empty space a pop-up dialog comes up saying “invalid id”** |
| Test 12:  Add students with null last Name | Preconditions Test 7 has passed  1.Add the following student in Student information  First name:Mary  Last name:  ID: mann  Email: [mann@ncsuedu](mailto:mann@ncsu.edu)  Password: kkllann  Repeat Password: kkllann  Max Credits: 6  2. Click add students  3.check results  4. Close GUI | A pop-up dialog stating “Invalid last name”  Student Directory Display   * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone | **After putting all the specified information of the student in the empty space a pop-up dialog comes up saying “invalid last name”** |
| Test 13:  Remove a student without selecting one | Preconditions Test 7 has passed  1.make sure no row is selected in student directory  2.Click Remove Student  3.check results  4. Close GUI | A pop-up dialog stating “No student selected”  Student Directory Display   * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone | **After putting all the specified information of the student in the empty space a pop-up dialog comes up saying “No student selected”Passwords do not match”** |
| Test 14  Modified    Add students with credit 21 | Precondition test 7 has passed  1.Add the following student in Student information  First name:Mary  Last name: ann  ID: mann  Email: [mann@ncsuedu](mailto:mann@ncsu.edu)  Password: kkllann  Repeat Password: kkllann  Max Credits: 21  2. Click add students  3.check results  4. Close GUI | Student Directory display   * Mary, ann, mann * Lane,Berg,lberg * Raymond,Brennan,rbrennan * Shannon,Hansen,shansen * Althea,Hicks,ahicks * Zahir,King,zking * Dylan,Nolan,dnolan * Cassandra,Schwartz,cschwartz * Griffith,Stone | **After putting all the specified information of the student in the empty space and successfully added the student to the existing student Directory. The results are exactly like the expected ones.** |
| Test 15  Save student Directory | Precondition test 14 has passed  1.Click on save student Directory  2.select test-files folder in save Student Directory  3. Enter file name new\_student\_Directory.txt  4. Click save  5. Check results  6. Close gui | In Eclipse, right click on the pack scheduler project and select Refresh  Open the test-files folder and open  New\_student\_sorted\_directory.txt in the editor | **After conducting Test 14 I clicked on Save student Directory. Then I went to the right file location which is test-files and saved the student directory as** New\_student\_directory.txt.  After saving the file I went to Eclipse and opened it. It showed the same exact results in expected results. |
| Test: 16  New  Sort student list by first name | Preconditions : none  1. Run StudentDirectoryPanel  2.Input the following information  First name: Fake  Last name: Bond  ID: Ffrank  Email: JF[@ncsu.edu](mailto:mann@ncsu.edu)  Password: JFloner  Repeat Password: JFloner  Max Credits: 22  3.Input the following information  First name: James  Last name: Bond  ID: 007  Email: Jamesbond[@licenseto kill.edu](mailto:mann@ncsu.edu)  Password: casiono  Repeat Password: casiono  Max Credits: 77  4.Click add students   1. Check results 2. Close GUI | Student directory displayed   |  |  |  | | --- | --- | --- | | First name | Last name | Student ID | | Fake | Bond | Ffrank | | James | Bond | 007 | | **The test ran successfully and the list was compared by their first name. As expected in the expected results** |
| Test: 16  New  Sort student list by student ID | Preconditions : none  1. Run StudentDirectoryPanel  2.Input the following information  First name: James  Last name: Bond  ID: Ffrank  Email: JF[@ncsu.edu](mailto:mann@ncsu.edu)  Password: JFloner  Repeat Password: JFloner  Max Credits: 22  3.Input the following information  First name: James  Last name: Bond  ID: Abond  Email: Jamesbond[@licenseto kill.edu](mailto:mann@ncsu.edu)  Password: casiono  Repeat Password: casiono  Max Credits: 12  4.Click add students   1. Check results 2. Close GUI | Student directory displayed   |  |  |  | | --- | --- | --- | | First name | Last name | Student ID | | Fake | Bond | Abond | | James | Bond | Ffrank | | **The test ran successfully and the list was compared by their Student ID. As expected in the expected results** |