# Lab 02: System Test Plan

## Test Overview

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
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| Test 1:  Invalid File  Alex Jong | Preconditions: None   1. Run StudentDirectoryPanel 2. Click Load Student Directory 3. In the Load Course Catalog dialog, choose test-files/invalid\_student\_records.txt 4. Click Select 5. Check results 6. Close GUI | * StudentDirectoryPanel loads with normal layout * No data is displayed under Student Directory * No data is displayed under Student Information | * StudentDirectoryPanel looks normal. * There are no entries displayed under Student Directory. * All the fields under Student Information are blank. |
| Test 2:  Valid File  Alex Jong | Preconditions: None   1. Run StudentDirectoryPanel 2. Click Load Student Directory 3. In the Load Course Catalog dialog, choose test-files/student\_records.txt 4. Click Select 5. Check results 6. Close GUI | * StudentDirectoryPanel loads with normal layout * The following data is displayed under Student Directory   + 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, gstone, * No data is displayed under Student | * StudentDirectoryPanel looks normal. * There are entries corresponding to first name, last name, and student ID respectively. The following data is displayed.   + 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, gstone, * All the fields under Student Information are blank. |
| Test 3:  AddStudent - blank  Alex Jong | Preconditions: Passed test 2.   1. Make sure the Student Information fields are blank. 2. Click Add Student. 3. Check results. 4. Close GUI. | * A dialog appears which displays “Invalid password” | * A window titled Message appears that says “Invalid password” |
| Test 4:  AddStudent - no Max Credits  Alex Jong | Preconditions: Passed test 2.   1. In the Student Information section, set First Name to ‘John’ 2. Set Last Name to ‘Smith’ 3. Set ID to ‘jsmith’ 4. Set Email to ‘jsmith@ncsu.edu’ 5. Set Password to ‘password123’ 6. Set Repeat Password to ‘password123’ 7. Click Add Student 8. Check results. 9. Close GUI. | * There is a new entry in the Student Directory with first name John, last name Smith, and Student ID jsmith. | * There is an eleventh entry in Student Directory. * Appended to the other entries is one with first name John, last name Smith, and Student ID jsmith. |
| Test 5:  RemoveStudent - blank  Alex Jong | Preconditions: Passed test 2.   1. Make sure no Student is selected in the Student Directory. 2. Click Remove Student. 3. Check results. 4. Close GUI. | * A dialog appears which displays “No student selected” | * A window titled Message appears that says “No student selected” |
| Test 6:  RemoveStudent - valid test  Zachary Orr | Preconditions: Passed test 2.   1. Select the first box under the student directory with the first name “Demetrius”, last name “Austin”. 2. Click Remove Student. 3. Check results. 4. Close GUI. | * StudentDirectoryPanel loads with normal layout * The following data is displayed under Student Directory with Lane taking the first line in the Directory   + 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, gstone, | * StudentDirectoryPanel loads with normal layout * The following data is displayed under Student Directory with Lane taking the first line in the Directory   + 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, gstone, |
| Test 7  NewStudentDirectory  Zachary Orr | Precondition: passed Test 2.   1. Press the new student directory button under the Directory Buttons category. 2. Check results 3. Close GUI. | * StudentDirectoryPanel loads with normal layout * The loaded Student Directory is replaced with an empty student directory | * StudentDirectoryPanel loads with normal layout * The loaded Student Directory is replaced with an empty student directory |
| Test 8  NewStudentDirectory - Valid Student Max with Credits  Zachary Orr | Precondition: passed Test 2 and Test 7.   1. Fill Student Information out with:   First Name: “Marty”  Last Name: “McFly”  ID: “mmcfly2”  Email: “[mmcfly2@ncsu.edu](mailto:mmcfly2@ncsu.edu)”  Password: “outtatime”  Repeat Password: “outtatime”  Max Credits: 15   1. Click Add Student 2. Check results 3. Close GUI. | * StudentDirectoryPanel loads with normal layout * The empty student directory has a student line on it * The line contains the first name “Marty” Last Name “McFly” and Student ID “mmcfly2”. | * StudentDirectoryPanel loads with normal layout * The empty student directory has a single line on it * The line contains the first name “Marty” Last Name “McFly” and Student ID “mmcfly2”. |
| Test 9  AddStudent - Different Passwords  Zachary Orr | Precondition: passed Test 2.   1. Fill Student Information out with:   First Name: “Marty”  Last Name: “McFly”  ID: “mmcfly2”  Email: “[mmcfly2@ncsu.edu](mailto:mmcfly2@ncsu.edu)”  Password: “outtatime”  Repeat Password: “wrong”  Max Credits: 15   1. Click Add Student 2. Check results 3. Close GUI. | * StudentDirectoryPanel loads with normal layout * Message “Passwords do not match” pops up. * All written student information is still displayed. | * StudentDirectoryPanel loads with normal layout * Message “Passwords do not match” pops up. * All written student information is still displayed. |
| Test 10  AddStudent - Invalid Email  Zachary Orr | Precondition: passed Test 2.   1. Fill Student Information out with:   First Name: “Marty”  Last Name: “McFly”  ID: “mmcfly2”  Email: “email.com”  Password: “outtatime”  Repeat Password: “outtatime”  Max Credits: 15   1. Click Add Student 2. Check results 3. Close GUI. | * StudentDirectoryPanel loads with normal layout * Message “Invalid Email” pops up. * All written student information is still displayed. | * StudentDirectoryPanel loads with normal layout * Message “Invalid Email” pops up. * All written student information is still displayed. |
| Test 11  SaveStudentDirectoryValid  Ken Ogura | Precondition: passed Test 8.   1. Fill Student Information with  * First Name: “John” * Last Name: “Adams” * ID:”jadams” * Email: “[jadams@ncsu.com](mailto:jadams@ncsu.com)” * Password “pass” * Repeat Password “pass” * Max Credits “14”  1. Click Add Student 2. Click Save Student Directory 3. Click on test-files 4. Enter File Name as “jadams-test.txt” and press Save 5. Check test-files and ensure “jadams-test.txt” is present and that all fields are comma separated. | * Add Student is clicked and field information shows up in Student Directory. * Save Student Directory is clicked and a file explorer-like popup appears. * The Save button is clicked and the popup disappears. * jadams-test.txt is present in test-files and contains information about the student separated by commas. | * Add Student is clicked and field information shows up in Student Directory. * Save Student Directory is clicked and a file explorer-like popup appears. * The Save button is clicked and the popup disappears. * jadams-test.txt is present in test-files and contains information about the student separated by commas. |
| Test 12  InvalidCreditsHigh  Ken Ogura | Precondition: passed Test 8.   1. Fill Student Information with  * First Name: “John” * Last Name: “Adams” * ID:”jadams” * Email: “[jadams@ncsu.com](mailto:jadams@ncsu.com)” * Password “pass” * Repeat Password “pass” * Max Credits “22”  1. Click Add Student 2. Click Save Student Directory 3. Click on test-files 4. Enter File Name as “jadams-test2.txt” and press Save 5. Check test-files and ensure “jadams-test2.txt” is present, all fields are comma separated, and the last value is 18. | * Add Student is clicked and field information shows up in Student Directory. * Save Student Directory is clicked and a file explorer-like popup appears. * The Save button is clicked and the popup disappears. * jadams-test2.txt is present in test-files and contains information about the student separated by commas with the last value being 18 | * Add Student is clicked and field information shows up in Student Directory. * Save Student Directory is clicked and a file explorer-like popup appears. * The Save button is clicked and the popup disappears. * jadams-test2.txt is present in test-files and contains information about the student separated by commas with the last value being 18 |
| Test 13  AddSameStudent  Ken Ogura | Precondition: passed Test 2.   1. Fill Student Information with  * First Name: “John” * Last Name: “Adams” * ID:”jadams” * Email: “[jadams@ncsu.com](mailto:jadams@ncsu.com)” * Password “pass” * Repeat Password “pass” * Max Credits “14”  1. Click Add Student 2. Repeat steps 1 and 2. | * The first time Add Student is clicked the field information shows up in Student Directory. * The second time Add Student is clicked a pop-up with the message “Student already in system.” appears | * The first time Add Student is clicked the field information shows up in Student Directory. * The second time Add Student is clicked a pop-up with the message “Student already in system.” appears |
| Test 14  InvalidCreditsLow  Ken Ogura | Precondition: passed Test 8.   1. Fill Student Information with  * First Name: “John” * Last Name: “Adams” * ID:”jadams” * Email: “[jadams@ncsu.com](mailto:jadams@ncsu.com)” * Password “pass” * Repeat Password “pass” * Max Credits “1”  1. Click Add Student 2. Click Save Student Directory 3. Click on test-files 4. Enter File Name as “jadams-test3.txt” and press Save 5. Check test-files and ensure “jadams-test3.txt” is present, all fields are comma separated, and the last value is 18 | * Add Student is clicked and field information shows up in Student Directory. * Save Student Directory is clicked and a file explorer-like popup appears. * The Save button is clicked and the popup disappears. * jadams-test3.txt is present in test-files and contains information about the student separated by commas with the last value being 18 | * Add Student is clicked and field information shows up in Student Directory. * Save Student Directory is clicked and a file explorer-like popup appears. * The Save button is clicked and the popup disappears. * jadams-test3.txt is present in test-files and contains information about the student separated by commas with the last value being 18 |
| Test 15  AddStudentNoID  Ken Ogura | Precondition: passed Test 2.   1. Fill Student Information with  * First Name: “John” * Last Name: “Adams”” * Email: “[jadams@ncsu.com](mailto:jadams@ncsu.com)” * Password “pass” * Repeat Password “pass” * Max Credits “14”  1. Click Add Student | * A pop-up with the message “Invalid id” appears | * A pop-up with the message “Invalid id” appears |