# Lab 02: System Test Plan

## Test Overview

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| Test 1: AddStudentInvalid  BV | Preconditions: None   1. Run StudentDirectoryPanel 2. Click Add Student 3. *Check results* 4. Click OK (or the x on the top right) | StudentDirectoryPanel loads  Invalid password | StudentDirectoryPanel loads  Invalid password |
| Test 2: RemoveStudentInvalid  BV | Preconditions: Test 1 has passed   1. Click Remove Student 2. *Check results* 3. Click OK (or the x on the top right) | No Student selected | No Student selected |
| Test 3: NewLoadStudentDirectoryInvalid  BV | Preconditions: Test 1 has passed   1. Click Load Student Directory 2. Click cancel (or the x on the top right) 3. *Check results* 4. Click OK (or the x on the top right) | Invalid selection | Invalid selection |
| Test 4: SaveStudentDirectoryInvalid  BV | Preconditions: Test 1 has passed   1. Click Save Student Directory 2. Click cancel (or the x on the top right) 3. *Check results* 4. Click OK (or the x on the top right) | Invalid selection | Invalid selection |
| Test 5: PasswordDoNotMatchInvalid  BV | Preconditions Test 1 has passed   1. Enter Password: 12345 2. Enter Repeat Password: 1 3. Click Add Student 4. *Check results* 5. Click OK (or the x on the top right) | Passwords do not match | Passwords do not match |
| Test 6: FirstNameInvalid  BV | Preconditions Test 1 has passed   1. Enter Password: 12345 2. Enter Repeat Password: 12345 3. Click Add Student 4. *Check results* 5. Click OK (or the x on the top right) | Invalid first name | Invalid first name |
| Test 6: LastNameInvalid  BV | Preconditions Test 1 has passed   1. Enter Password: 12345 2. Enter Repeat Password: 12345 3. Enter First Name: Fahad 4. Click Add Student 5. *Check results* 6. Click OK (or the x on the top right) | Invalid last name | Invalid last name |
| Test 7: IDInvalid  BV | Preconditions Test 1 has passed   1. Enter Password: 12345 2. Enter Repeat Password: 12345 3. Enter First Name: Fahad 4. Enter Last Name: Ansari 5. Click Add Student 6. *Check results* 7. Click OK (or the x on the top right) | Invalid id | Invalid id |
| Test 8: EmailInvalid  BV | Preconditions Test 1 has passed   1. Enter Password: 12345 2. Enter Repeat Password: 12345 3. Enter First Name: Fahad 4. Enter Last Name: Ansari 5. Enter ID: mfansari 6. Click Add Student 7. *Check results* 8. Click OK (or the x on the top right) | Invalid email | Invalid email |
| Test 9: AddStudent  EC | Preconditions: Test 1 has passed   1. Enter First Name: Fahad 2. Enter Last Name: Ansari 3. Enter ID: mfansari 4. Enter Email: [mfansari@ncsu.edu](mailto:mfansari@ncsu.edu) 5. Enter Password: 12345 6. Enter Repeat Password: 12345 7. Enter Max Credits: 15 8. Click Add Student 9. *Check results* | First Name, Last Name, and Student ID is displayed below the Student Directory section. Student Fahad Ansari is the only student listed in the student directory. | First Name, Last Name, and Student ID is displayed below the Student Directory section. Student Fahad Ansari is the only student listed in the student directory. |
| Test 10: AddStudentDuplicateInvalid  EC | Preconditions: Test 1 and Test 9 has passed   1. Enter First Name: Fahad 2. Enter Last Name: Ansari 3. Enter ID: mfansari 4. Enter Email: [mfansari@ncsu.edu](mailto:mfansari@ncsu.edu) 5. Enter Password: 12345 6. Enter Repeat Password: 12345 7. Enter Max Credits: 15 8. Click Add Student 9. *Check results* 10. Click OK (or the x on the top right) | Student already in system | Student already in system |
| Test 11: RemoveStudent  EC | Preconditions: Test 1 and Test 9 has passed   1. Click Fahad or Ansari or mfansari in the Student Directory section 2. Click Remove 3. *Check results* | Student Directory is empty | Student Directory is empty |
| Test 12: LoadStudentDirectory  EC | Preconditions: Test 1   1. Click Load Student Directory 2. Click test-files and Select 3. Click student\_records.txt and Select 4. *Check results* | Student Directory section shows the First Name, Last Name, and the Student ID of the file  The following is listed in the 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 | Student Directory section shows the First Name, Last Name, and the Student ID of all students in the file  The following students are listed in the 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 |
| Test 13: NewStudentDirectory  BV | Preconditions: Test 1 and Test 12   1. Click New Student Directory 2. *Check results* | Student Directory is empty | Student Directory is empty |
| Test 14: SaveStudentDirectory  EC | Preconditions: Test 1 and Test 13   1. Click Save Student Directory 2. Click test-files and Open 3. Click students\_records.txt and Save 4. *Check results in Eclipse* | The file is empty | The file is empty |
| Test 15: LoadStudentDirectoryEmpty  EC | Preconditions: Test 1   1. Click Load Student Directory 2. Click test-files and Open 3. Click invalid\_student\_records.txt and Select 4. *Check results* | Student Directory is empty | Student Directory is empty |