# 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** |
| loadStudentsFromFileInvalid  considers an invalid file | Preconditions: students.txt does not exist | loadStudentsFromFile should return a FileNotFoundException with the text “Unable to read file students.txt” | **A box popped up saying “Unable to read file students.txt”** |
| loadStudentsFromFileValid  considers a valid file | Student\_records.txt exists | loadStudentsFromFile should create a student directory with the contents of student\_records.txt | **A new student directory was created with the contents of student\_records.txt** |
| newStudentDirectoyValid  tests the creation of a new student directory while a current one is loaded | A student directory must currently exist | The current student directory should be cleared for a new, blank one | **The student directory was deleted and the panel was completely blank** |
| addStudentInvalidPassword  a new student is added without a password field | All other fields of student are completed correctly | The user should get an error saying “invalid password.” | **A dialog box popped up saying “Invalid password”** |
| addStudentInvalidMaxCredits  a new student is added without a valid number of max credits | All other fields for Student are filled in correctly | A new student should be created with the default amount of max credits rather than the amount inputted | **A new entry in the student directory was created with the max credits of 18** |
| addStudentValidMaxCredits  a new student is created with the largest possible number of max credits | All other fields inputted into student are correct | A new student should be added with the amount of max credits inputted | **A new entry was added to the student directory with the amount of max credits inputted** |
| AddStudentMismatchPassword  A new student is created with two different passwords in the input fields | All other fields are filled in correctly | The user should receive an error saying “Passwords do not match” | **A dialog box popped up saying “passwords do not match.”** |
| RemoveStudentInvalid  A student is trying to be removed without being selected | No student has been selected | The user should receive an error saying “No student selected” | **A box popped up saying “No student selected”** |
| removeStudentValid  selects a student and removes it | A student must be created and selected | The student should be removed from the view | **The entry in the student directory was deleted** |
| saveStudentDirectoryValid  saves a student directory in a file | A student directory must be loaded into the UI | A file should be created with the inputted name containing the student directory that was created | **A file was created in the directory containing the student directory that was present in the UI** |
| addStudentInvalidEmail  tries to create a student with an email in the desired format | All other fields are correct, especially the password field | The user should receive an error saying “invalid email” | **A dialog box popped up saying “invalid email”** |
| AddStudentValidEmail  A new student is created with an email of [bob.jones@ncsu.edu](mailto:bob.jones@ncsu.edu) | All other fields must be valid | The new student should be added to the directory | **A new entry was created in the student directory with an email of bob.jones@ncsu.edu** |
| LoadStudentDirectoryInvalid | Invalid\_student\_records.txt must exist in test-files | No student directory should be created | **The file was loaded, but no student directory was created** |
| AddStudentCredtsMinimum  Creates a student with the minimum number of max credits | All other fields must be valid and 3 must be inputted for the max credits field | A new student should be added to the directory with a max credits field of 3 | **A new entry was added to the student directory and the number of max credits was 3** |