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Unit Test Cases

Likely:

For the likely test case, a normal sequence of actions is performed by the three different user types. It is assumed that all users input valid data (i.e correct username/password and valid course CRNs). The sequence starts with a student logging in and registering for a pre-existing course. Upon completion, the student logs out and now the instructor for that course logs in and views their roster. The instructor is successfully able to see the username of the student that just registered for that course. They now log out and an admin logs in afterwards. The admin, for one reason or another, decides to delete this particular course from the course list. They receive confirmation that the course was successfully deleted and then log out. Finally, the student logs back in and tries to check his schedule. No errors are thrown at this point; however the student’s schedule still has the deleted course. This indicates that there is a missing link somewhere in the code that’s causing student schedules to not be updated after an admin removes a course they were enrolled in. From the result of this test case, it was also discovered that instructor rosters and schedules were not accurately updating either.

Unlikely:

In the unlikely test scenario, data is imputed in a way that follows the flow of the program, however inputs undesired or unexpected values. For the sake of this test, values imputed will not cause a segmentation fault, allowing the full test to run through. When testing logins, it was not possible to log into the program without the previously stored login credentials. It will yell at you for incorrect credentials. Once a successful login is inputted, tests were conducted with every option. Generally, all the view functions work as intended. However, functions that require user input can probe to be difficult. Within student, it is possible to register for a course that does not exist and drop a course that is not in the student’s schedule. The latter is less of an issue as it only returns to the menu. For administrators after a successful login, creating a course does not check for a valid input. When asked for the year, its possible to say none. For the subject, it could be all. However, when setting the instructor if a space is used within whatever name, this will cause an infinite loop and crash the program. Given the instructor name does not contain a space, the program does not check if it’s a valid username. Finally the instructor does not have any inputs needed and is mostly a view only login.

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| Likely Test Case | Unlikely Test Case |
| 1  willk  password1  2  12345  5  1  carpentera1  professor  1  3  1  kryskon  password1  2  12345  3  1  willk  password1  4  5  2 | 1  willk  password1  1  2  125790  3  123451  4  5  1  kryskon  password1  1  12  none  all  nonofyobuisness  2  123456678  3  1  carpentera1  professor  1  2  3  10 |