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Assignment 4 Report

Student:

      The CURSE system has 3 user types. The most populous of these is the student user type. The student was intended to have the ability to log in, sign up for classes and view the classes they are in. When the program runs, the student is prompted with a username and login that checks the validity of the inputs. If they are correct, they will be logged in, if they are wrong, the code will alert them and prompt them to log in again. When the student signs up for a course, they are added to a database of the class roster. Then, the course that they are taking is added to their schedule. The purpose of this is to later find schedule conflicts and prevent a student from signing up if the class is full or if there is a conflict with the scheduled times.

```
Which Option?
0 - Logout
1 - Register for a course
2 - View schedule
1
Input the crn value of the course you want to register :
33

successfuly registered for:33

Which Option?
0 - Logout
1 - Register for a course
2 - View schedule
2

Crn code: 33   Course: Binary for Bozos   Instructor: THIS NEEDS TO BE A USER   Major: cs Capacity: 2 Open Seats: 1
```

      In the image shown above, the user is a student who is registering for a class. This is a test user and test course that are added initially into the program. However, it does show functionality of the program. Also, the user has the option to log out and into the system as they please with a generated username and password. These usernames and passwords are coded to have a default passcode. In the future, functionality can be added to change a passcode of the user that is logged in. Changes made to the models and diagrams were adding more detail and also making the models more professional.

Professor:

        The second user in the CURSE system is the professor. The professor has a simpler role inside of the system since they are not signing up for classes. The professor can view the classes that they are instructing and the students inside of the class roster. Inside the database that the admin uses, the professor can be seen as well as students. This way, the admin will be able to change what classes that the professor will teach as well. The following is a screen capture of the profesor user-type used:

```
ENTER USERNAME:
a

ENTER PASSCODE:
a

 Welcome yeet

Which Option?
0 — Logout
1 — View Class rosters
1

Crn code: 33   Course: Binary for Bozos   Instructor: THIS NEEDS TO BE A USER   Major: cs Capacity: 2 Open Seats: 1
Ben

Which Option?
0 — Logout
1 — View Class rosters
```

        The professor user-type is shown logging into the system, and then checking which courses that they are teaching. Also, shown below the class information is the name of the only student (test student) that is registered for the class. The models and diagrams differ from the before and after tables (besides a more professional rendering) by showing the classes and class roster without giving a choice. This makes for a more simple user interface and coding infrastructure.

Admin:

The Administrator, (or admin) is the most functional of user types in the code. Their job is to be able to add classes to students schedules as well as view students and professors classes. They essentially carry all of the functionality of the professor user and the student user. The admin is meant to be able to maintain the CURSE system and do management when the users are not managing themselves.

```
 Administrator : Grande Barriga has logged on


Which Option?
0 — Logout
1— view course
2— add course to roster2
what is the CRN?33
here should be a function to add a course...

Which Option?
0 — Logout
1— view course
2— add course to roster1

 Crn code: 33    Course: Binary for Bozos    Instructor: THIS NEEDS TO BE A USER    Major: cs Capacity: 2 Open Seats: 2
 None
```

Here the shown image is of the admin creating a class. Because no inputs for the class info were given however, the default parameters were used. Models and diagram changes to this include automatic creation as the program is run. This is done so that there is an admin to create other users.