**Leopard Web**

**Tutorial / User Manual**

**Applied Programming Concepts (ELEC-3225-01)**

**August 5th, 2022**

**Installation**

1. Go to this link: [cowboyskevin/ApplicationProgramming-Database: Database application for the Application programming class (github.com)](https://github.com/cowboyskevin/ApplicationProgramming-Database)
2. Once the page loads, look for a green button labelled “Code”. This will open a dropdown menu where you want to click “Download ZIP” and extract it to a folder on your desktop.

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Above is an example of how to properly download the ZIP.

1. You are all set, just double-click “main.py” to start the program!

**Executing Program**

Open the file titled (insert title name here) to run the python program. You will be prompted to login using either a student, instructor, or administrator account. The password is the “ID” portion of the user’s info found in the database while the username is the “EMAIL” portion of the database. Logging in is shown in Figure 1 and logging out will terminate the program along with committing the information to the database. If you don’t log out successfully, information will be lost. Go to the last page of this manual to see screenshots of all the information stored in the database for this program.

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**Figure 1:** An example of logging in with a student user account. It shows the users full name, ID # and what type of user they are after welcoming them.

**Using a Student Account**

As you can see from the figure above, there are 5 different options for the student to choose from. You can add/drop courses (options 1-2), search through all courses (3) and searching for a course based on certain parameters (4). Option 5 will log you out and allow you to sign in using a different account. We’ll start with the top of the list and work our way down.

**Student Account: Add/Drop Courses**

1. Choose either option 1 for adding a course, or option 2 for dropping a course. Since both options are functionally the same, they have been condensed into one instruction set.
2. Input the CRN of the course you would like to add. If there are no time/date conflicts, the course will be added to your schedule.

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**Figure 2:** Example output of the add course function.

**Student Account: Search Courses**

Choose options 3 or 4 to search through the available courses. Option 3 will print all available courses, while option 4 allows you to search by specific parameters. These can be CRN, course title, course department and the instructor’s name (first, last or both).

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**Figure 3:** Example of the course search function. Search all courses will print all the courses in the same format as above.

**Student Account: Print Schedule**

This option will print out the schedule for the current student using the format seen above.

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**Figure 4**: Print schedule output.

**Using an Instructor Account**

The only difference between the instructor accounts and student accounts is the addition of a function that allows you to print the class roster. Other than that, it functions almost exactly like the student account in regard to the other functions.

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**Figure 5:** Instructor options.

**Instructor Account: Print Class Roster**

This function simply prints out the names of students in the course of the CRN that you enter. Selecting this option will print out the names of the students with one student per line.

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**Figure 6:** Print class roster output.

**Using an Admin Account**

The admin accounts in this program add a lot of new functions compared to the others. They will be demonstrated below. Options 3 and 4 will not be covered since they have already been covered in the Student Account section.

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**Figure 7:** Options for the admin account

**Admin Account: Add/Drop Courses**

Running this command is relatively simple, all you must do is follow the prompts and enter in the information that it asks of you so it can fill the “COURSE” table correctly. If you want to drop a course, simply choose that option, and enter the CRN of the course you would like removed.

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**Figure 8:** Shows prompts for entering in a new course to the database.

**Admin Account: Add/Drop Student from course**

Adding a student is simple, you start off by entering the ID of the student and then the CRN of the course you want them to take. Removing the student from the course works identically.

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**Figure 9:** Example of adding a student to a course. Removing the student works in the exact same fashion.

**Admin Account: Add/Drop Instructor from course**

This function is almost identical to the previous one, except now you are working with instructors. First enter the CRN of the course that you would like to switch instructors with, and then enter the ID of the instructor that will replace the current one. Removing the instructor will leave the fields blank in the table.

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**Figure 10:** Example of adding a professor to a class. Even if there is another professor teaching the class, it can replace them without issue.

**Database Information**

**Table

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**Instructors Database Students Database**

**Table

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**Admin Database**

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**Courses Database**