CS 340

Final Project

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Read ME

The purpose of this project was to successfully create a CRUD python module, to perform create, read, update, and delete functions to later be performed for an application. This CRUD module would be tested with an ipynb file that would provide a data table that would contain the Austin animal center outcomes information. I was successful in creating this in module 6. A shown in the screenshot below.Text

Description automatically generated

Graphical user interface, text, application

Description automatically generated

The next part of the project was to add code to display geolocation chart. I was successful in doing this in module 6, and the screenshot of the code is displayed below. The geolocation chart should be able to react to queries in order to show where certain dogs or cats could be located in the Austin area.

Graphical user interface, text, application

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Map

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Going forward, in the next few steps of the process, even though I did not get the correct output,I believe I am moving in the right direction. The next part of the process was to create code in order to create interactive filter options. There were several to choose from, I chose to with a dropdown style as shown in the screenshot below.A picture containing text

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After this I needed to create queries that would interact with my CRUD module in order to filter dogs based on their type. This was done by filtering first by the type of dog they are, then by the breed belonging to the dog type. The screenshot of the code is listed below.

Text

Description automatically generated

The final step of project three was to add an additional chart such as a pie chart, I was able to try this out, but nothing seemed to work for me. I hope to get the hang of this the next few days after the class ends. The screenshots below show the create, read, update, and delete functions. The description of their functionality, and how they work are listed in the comments of the code. The create function is utilized to create a new object in the database, in this case data. The read function reads information into the database, the update function updates information into the database, and finally the delete function deletes information from the database.

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Ultimately, I was able to fulfill full functionality of my CRUD module until the final project, but I failed to discover some of the issues I was having. I do believe I got very close.

In order to reproduce this project, simply go to terminal, and perform the command cd /usr/local/datasets. Next perform the command /usr/local/bin/mongod\_ctl start. This will enable authentication. Then login to authentication with the command: mongo –authenticationDatabase “AAC” -u “aacuser1” -p “wareagle11”. After this you must have access to a python IDE, and access to a dash framework in order to write the python code for the CRUD module, and the test file for the functionality of the dash.