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CS 340

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CS 340 Project 2 README

**Functional Requirements** The required functionality is to display a database which is labeled, includes the Salvare logo, a unique identifier, and has the ability to create, read, update, and delete entries. It also uses geolocation so that you can see where the animals are located. The database should handle the use of filters, and include some type of chart.

**Systems utilized** Python is the language this project is written in. I used Jupyter Notebook to create the “.ipynb” and “.py” files. Mongo DB was used as the model component of development to allow the use of the CRUD method: Create, Read, Update, Delete.

**Dash Framework** The DASH framework in this project introduced the dynamic components of the database, such as the use of buttons, dropdown menus, etc. to allow users to interact with the database.

**Project Method** To complete this project, there were several resources to draw from, and I started with he code template .ipynb file. I had to insert the logo into the document which I worked on first. Then I added the link to the SNHU website to the logo. I used the Dash leaflet in the Milestone Assignment for module 6 to implement the geolocation info. I decided to add a pie chart to my project.

**Issues** I struggled with getting syntax errors in the app database section. Finally I had to just test the code section by section until I found the errors, which were mostly typos and missed end parenthesis or brackets. I also forgot I used read\_in in my .py file, but I tried to use just read in my ipynb, so I fixed that. The logo ended up being way bigger than I would like, and the pie chart has a tail!

**Output & Testing**

Here is a screen recording with the tested code from the ipynb file, and the final output at the end.