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4/18/21

## About the Project/Project Title

This project utilizes MongoDB to perform CRUD operations for the Grazioso Salvare Company. Uses a user friendly interface with filtering options and charts with a geolocation search that allows them to find the perfect match.

## Motivation

This program exists due to the need of the Grazioso to have a system that is easy to find specific breeds for clients to match up with. As the company grows, it needed a system to parse through their animals quickly and easily

Required Functionality

The required functionality includes buttons on the top that allows for the client to easily select which breed they wish to parse through. It also includes a chart that shows you the breakdown of the breeds that the search produces. One other functionality that is included is a geolocation map that shows where the animals are located.

Table

Description automatically generated

Map

Description automatically generated with medium confidence

**Tools Used**

MongoDB was used for the assignment because the data that was used is not used in any matter. It allows for easy interfacing with complex queries for figuring out what breeds are required for the company. Once I developed the utility crud class it allowed for me to use that to find and search for any query. The dash framework allowed for me to implement the simple widgets that were needed for the interface. This included all the buttons and the table widget that shows the result of the queries.

**Steps**

The steps taken to complete the project was I needed to import the csv file for the database. After that, I had to complete the crud file that is needed to perform the queries needed. I had to utilize the Dash framework to show all the buttons that are needed for the required functionality.

**Challenges**

Some of the challenges faced were getting the required queries just right to find exactly what the client wanted. Getting the code to hook up with the backend was also a challenge as parts of the code would not show up if it was not hooked up properly.

### Contact

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