# CS 340 README

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## About the Project/Project Title

Graziosos Salvare Web Application Filter is an application that takes in a CSV file from an animal shelter and imports that file into a readable table. It also filters the information into four categories. Water Rescue, Disaster Rescue, Mountain Rescue and all animals in the CSV file. It also has a graph that shows the percentage of each category as well as a geographical location for each animal.

## Motivation

Grazioso Salvare asked for this application so that they would be able to easily find dogs that fit the criteria for certain rescue positions.

## Getting Started

Download the file of script.py as well as the Project two file. With this downloaded you will need to run it in jupyter notebook. It will bring up a table that you can open into a web page. Here you can use the buttons to filter to what type of rescue dog you would like to find. If you wish to see all of the animals after filtering simply press the reset button.

You will also need Mongodb loaded and authentication for the AAC file. Without this you will not be able to access the information. MongoDB was used because of its easy interaction with python. It has built in functions to be able to find and filter the CSV file.

**Challenges**

Challenges in this project were getting the environments to work together. Since a new component was being learned, Dash framework, then it was tricky to be able to implement it. The biggest challenge that was faced was getting the data table to load. When ever I would try to load it I would get a white screen with no errors. I was able to identify the error when opening the terminal and was given a type error. With the help of my professor I was able to identify why this was happening and was able to fix it. I also was not able to queries working. I could not figure out how to them integrated into the environment.

### Screenshots

Graphical user interface, text, application

Description automatically generated

Chart

Description automatically generated

## Contact

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