**Required functionality**

This program is intended to be used by Grazioso Salvare to create, read, update, and delete information for animals that have been rescued by the company. This program gives Grazioso Salvare’ members who have the required authentication, access to a database, filled with said information. Once these members have been authenticated, they will have access to names, sex, age, time in shelter, and even geolocation of where the animals were rescued.

**Describe the tools used to achieve this functionality**

MongoDB and the Dash framework were the tools used to achieve this. MongoDB allows for a fully functioning database to be created and ran, even by those with little to no experience. Once the database is created, with minimal effort, team members can add .csv files to add additional information to the database. The Dash framework allows for html Dash tags to be used to control outputs.

**Getting Started**

To get started, you need:

MongoDB

Linux

Juypter Notebook

animal\_shelter.py

ProjectTwoDashboard.ipynb

aac\_shelter.csv

Once you have these files, you are ready to use the dashboard!

Once you load Juypter Notebook, load the .py, .ipynb and .csv files. Double check all information is correct inside of the .py and .ipynb files and open the .ipynb file. Run the file and you will be greeted with the dashboard.

//To be finished//

**Identify any challenges that were encountered**

Currently, the hardest challenge was overcoming whitespace issues within the .py and .ipynb files. After several weeks and multiple rewrites of the files, this challenge was overcome. Now, the only challenge I am having is the .ipynb file reading my .py files to create the dashboard. I believe that my .ipynb file will create a fully functioning dashboard, I am just unable to currently test it.

//To be finished//