Project 2 README

* **Describe the required functionality** of the project. Include the screenshots or screencast taken while testing and deploying your dashboard (Step 6) as proof that you have achieved the required functionality.

This project allow users to better follow information regarding pets, like disaster related rescues. It does so by providing a table that the user can filter, and check information in more detail. It also has a map to indicate visually the locations, and a bar graph so users can understand how many animals have for each breed.

Text

Description automatically generatedGraphical user interface, text, application

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* **Describe the tools used to achieve this functionality and a rationale for why these tools were used.**

The technologies chosen to be used to develop this project was python, for its versatility, and MongoDB for the database technology, because it is noSQL, allowing a freer store and use of the data, and also because of its speed. We have used the Dash framework, that is a python framework to speed up the process of creating a dashboard. We used to create the dashboard interface that users access to interact with the software, and also to create the controllers to handle the requests and responses.

Python: https://www.python.org/

MongoDB: https://www.mongodb.com/

Dash framework: https://dash.plotly.com/

* **Explain the steps that were taken to complete the project.**

To complete this project I first created a python module to process the information that were inside the database. After that I created the dashboard file, that also includes the controllers to handle the requests and display the responses. Both file were developed while being continuously tested, in order to ensure quality.

* **Identify any challenges that were encountered and explain how those challenges were overcome.**

It was hard to use MongoDB at first, but their online documentation is good, and the community that uses it is super helpful, so I quickly managed to learn it.