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CS-340

Project Two README

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**Functionality**

This dashboard is an interactive web application intended to filter and display data about various animals from the Austin Animal Center (AAC). It includes options to filter the data, a table, geolocation chart, and a pie chart.

**Tools Used**

* Python for data manipulation and scripting purposes.
* MongoDB for storing and retrieving animal data.
* Plotly for charts and graphs.
* Dash for the web application framework.

**Steps Taken**

1. MongoDB and python environments were initialized.
2. A CRUD class was developed to handle data manipulation (CRUDmodule.py).
3. The dashboard was created and implemented in ProjectTwoDashboard.ipynb.
4. Interactive charts and data tables were added and built in with filter selections in the dashboard.
5. Debugging was performed to ensure all files and dependencies work as expected.

**Challenges**

Ensuring the CRUD class was built correctly and performed its necessary functions was challenging. Many bugs were encountered and had to be worked out in the code’s syntax.









