**Project 2 (7.2): Austin Animal Center Dashboard README**

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CS 340 Client/Server Development

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# CS 340 README Template

## About the Project/Project Title

This project is a continuation of the mongoDBCRUD file developed to connect the mongo shell to python code. This project uses this code and creates a simple dashboard to display information from the Austin Animal Center and help others find potential animals to help with their rescues. This includes a table that updates depending on the type of rescue that a team needs and shows the best animals for that rescue. There is also a map that shows the locations of these animals as well as a pie chart that shows the breakdown of the different breeds available.

## Motivation

This dashboard was developed to make it easier for clients to find animals that would meet their needs. Specifically, it allows users to search for animals that would be best suited for water rescues, mountain rescues, and disaster rescues. In addition to allowing the user to limit the number of animals shown on the dashboard, the user can look to see which ones are close enough to be used in their area.

## Getting Started

If an individual wanted to run this software, they would need a server to host the website that they want to link this information to. Or if this was just to be run on a single computer in a place of business, it would just need to be accessible from that computer. They would also need a system where they could run the mongo shell and python to get more details from the database or make updates to the dashboard as new needs arise and change.

The user of this dashboard would only need the computer to access the information or, if the dashboard was hosted online, a computer with an internet connection to access the information.

## Installation

To make sure this software is running the best that it can, the client would need to make sure that they have computers to access the mongo shell as well as python to make changes to the dashboard as necessary. If the client so chooses, it would also be necessary to have a dedicated server for the software to be connected to the internet for anyone to access. Otherwise, a single computer to run the software would suffice if the client only wanted this information accessible from their office.

## Usage

The following are examples of how to use this program to interact with the mongo shell.

### Code Example

Below in the screenshot section there are code snippets that show how the software works. The AnimalShelter file shows the CRUD information that connect the python code to the mongo shell. Additionally, there is the code used for the dashboard which shows information that the user can interact with. The dashboard also has code that limits the entries shown to animals that would be best suited for different types of rescues. This information can be seen in the screenshots on page 6.

### Tests

Very light testing was done, but in each step (from assignments and milestones) the system failed for some reason or another. Further testing and development will be needed to ensure that the software runs as desired.

### Screenshots

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

The above screenshots are the AnimalShelter class.

Text

Description automatically generated with medium confidence

Graphical user interface, text, application, email

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The above is the code and error produced when running this software.

## Roadmap/Features (Optional)

Future releases will include functions to update and delete databases. It will also include more stringent testing with more firm results.

## Contact

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