# CS 340 README Project 2: Animal Shelter

## Project 2: Animal Shelter

*This app allows the aacuser to access the AAC database where they can look through the collection of animals. With this information I was then able to create a dashboard where it would be easier to see all the animals available. The aacuser is also able to access geolocation mapping and charts that can show you which animals are available for different search and rescue options.*

## Motivation

*This application tests my skill with working with database and collections. I also learned how to integrate everything and begin working with CRUD. The main coding language used for this project was python. Python works the best with MongoDB. To create the main design for the project, I used Jupyter Notebook.*

## Getting Started

*This are the things that must be done in order to complete this project:*

1. *If not already done, import the csv file for Austin Animal Center (acc\_shelter\_outcomes.csv) into MongoDB.*
2. *Next, create a py.file with the CRUD module code with a class named AnimalShelter so that it can be imported into the main project in Jupyter Notebook at a later time.*
3. *Download the AAC logo to import into the project in Jupyter Notebook.*
4. *Open the main project up in Jupyter Notebook and wright the missing code that imports the CRUD module, the logo, creates your Dashboard, makes different options to choose from for rescue animals, creates a chart, creates a map, and makes any custom buttons.*
5. *Make sure the mongo is connected.*
6. *Run the code and fix any mistakes that might need fixing*

## Installation

*List the tools you need to use the software and how to install them.*

1. *Latest version of Python*
2. *Jupyter Notebook*
3. *MongoDB*
4. *Access to:*
   1. *PyMongo*
   2. *Dash*
   3. *Plotly*
   4. *Pandas*
   5. *Leaflet*

*The 5 things listed above are needed to create functions in the dash.*

## Usage

*Use this space to show useful examples of how your project works and how it can be used. Be sure to include examples of your code, tests, and screenshots.*

### Screenshots

*Provide screenshots that demonstrate your work.*

*Dashboard Title:*

*Text

Description automatically generated*

*Logo:*

**

*Working Radio Buttons:*

*Graphical user interface, application, table

Description automatically generated*

*Graph and Map:*

*Chart

Description automatically generated*

## Contact

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