# CS 340 README Animal Shelter

## Project Two: Animal Shelter

*This project is an application that allows user access to the Austin Animal Center database. In this database, the user can create, read, update, and delete animals from the stored data. Lastly, this project serves as a tool that will allow the client Grazioso Salvare to navigate the animal shelter database for their specific needs. Lastly, this project allows the user to benefit from user interaction, geolocation mapping and charts to locate animals for search and rescue.*

## Motivation

*This project was designed to help developers easily create and query the MongoDB. This is accomplished using Python that is in the Jupyter Notebook. Another motivation is to develop a CRUD (create, read, update, and delete) application to make changes to a Mongo DB database. This will make interacting with databases easier, and this will allow the client the ability to navigate large volumes of data.*

## Getting Started

*To get this program started you would need to complete the following:*

1. *Enter MongoDB and import the csv file aac\_shelter\_outcome.csv.*
2. *Create a simple and a complex index to parse the data stored within the document.*
3. *Authenticate the user by creating both an Admin account and an aacuser account to access the database.*
4. *The user need access or to install python and run the program out of a notebook.*
5. *Type in address of the dash and connect.*

## Installation

*Tools needed:*

1. *Current version of Python to run both the .py and the .ipynb files.*
2. *Linux shell*
3. *MongoDB to access the database.*
4. *Jupyter Notebook*

## Usage

### Code Example

1. *Running Dash:*

A screenshot of a computer

Description automatically generated

1. *Working Radio buttons:*

A screenshot of a computer

Description automatically generated

1. Changing options and switching geolocation:

*A map of the united states

Description automatically generated*

## Contact

Your name: Ruben Sanchez