# CS 340 Project 2 README

## About the Project/Project Title*.*

The Austin Animal Center (AAC) is a well-respected animal rescue shelter that takes in hundreds of homeless animals. As you can imagine, this creates the need for an organized and functioning database system to keep track of their residents, both current and past. This program presents the AAC’s data in an organized and user-friendly Dashboard.

## Motivation

This project answers this need from the AAC. The Dashboard program’s purpose is to import the data from the AAC mongo database using established user credentials, query the data based on user request, and present the data from the queries in easy to access fashions, like pie charts, radio lists, and geolocation maps.

## Getting Started

To use this program, you will need a user account to connect to the database and an environment to run all the needed software. The files used are a .ipynb file named “ProjectTwoDashboard.ipynb” and a .py file named “CRUD.py.” The user authentication runs through Mondodb against the AAC’s server.

## Installation

A device is needed that can run MondoDB, python files, and ipynb files. to make the connections to the needed server.

## Usage

### Code Example of AAC defined queries.

*if (int(button1) >= 1):*

*df = pd.Dataframe.from\_records(shelter.read({'$and': [*

*{'$or': [ {'breed':'Labrador Retriever Mix'}, {'breed':'Chesapeake Bay Retriever'},*

*{'breed':'Newfoundland'}]},*

*{'sex\_upon\_outcome':'Intact Female'}, {'age\_upon\_outcome\_in\_weeks':{'$lte':26, 'gte':156}}]}))*

*button2, button3, bt4 = 0*

*elif (int(button2)>= 1):*

*df = pd.Dataframe.from\_records(shelter.read({'$and': [*

*{'$or': [ {'breed':'German Shepherd'}, {'breed':'Alaskan Malamute'},*

*{'breed':'Old English Sheepdog'},{'breed':'Siberian Husky'},{'breed':'Rottweiler'}]},*

*{'sex\_upon\_outcome':'Intact Male'}, {'age\_upon\_outcome\_in\_weeks':{'$lte':26, 'gte':156}}]}))*

*button1, button3 ,bt4 = 0*

*elif (int(button3)>=1):*

*df = pd.Dataframe.from\_records(shelter.read({'$and': [*

*{'$or': [ {'breed':'Doberman Pinscher'}, {'breed':'German Sheperd'},*

*{'breed':'Golden Retriever'},{'breed':'Bloodhound'},{'breed':'Rottweiler'}]},*

*{'sex\_upon\_outcome':'Intact Male'}, {'age\_upon\_outcome\_in\_weeks':{'$lte':20, 'gte':300}}]}))*

*bt1, button2, bt4 = 0*

*elif(int(button4)>=1):*

*df = pd.Dataframe.from\_records(shelter.read())*

*bt1, button2, button3 = 0*

### Tests

N/A

### Screenshots

A screenshot of a computer screen

Description automatically generated

A screenshot of a computer

Description automatically generated

## Contact

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