# CS 340 README Animal Shelter

## About the Project/Project Title

Grazioso Salvare needed a interactive database to help filter and identify good candidates for search and rescue training. These databases of dogs were pulled from a non-profit agency that control 5 animal shelters in Austin, TX region. There needs to be a way of interactively filtering between different types of rescue training based on the designated animal requirement as a prime candidate.

## Motivation

Using a CRUD python library that is easily importable into multiple mongo databases helps easily manipulate and control any user’s database. Looking to further amplify the potential reusability of the CRUD library, I paired this library with a Dash to run a interactive website of the Animal Shelter database.

## Getting Started

First step is to import your database into mongo. Most common databases are stored in a CSV file. To import a CSV File type into your terminal: mongoimport –db=**YOUR\_DATABASE\_NAME** –collection=**COLLECTION\_NAME** –type=csv –headerline –file=/**insert\_file/nameofimportfile.**csv

Starting out your database project with no credentials is recommended until everything is running as it should. To launch with no credentials your mongo database, type: **/usr/local/bin/mongod\_ctl start-noauth** \*\*please note this may vary based on your location of your mongo db\*\*

Once your mongo server is running locally, you can load the CRUD python library and utilize the scripts to parse the information of your database. This will help make sure your import was successful.

## Installation

For this, you will need MongoDB, Juypter (or other IDE) and pymongo.

To install Pymongo, open your terminal and use command: **python -m pip install pymongo**

MongoDB and your IDE preference can be installed through their respected website.

## Usage

Inside the library, make sure you set the credentials and name of your database accordingly.

Graphical user interface, text, application

Description automatically generated

### Code Example

Setting up the interactive dash database is simple. Constructing your layout by adding images to make your website more customized to your needs. Below is a simple codebase example of starting out your website.

*Text

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Your data tables can be customized that best suits your needs. You can have your table editable inside the website and customize how you can sort, page size, and the ability to delete rows.

*Graphical user interface, text, application

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Below you can see how I have set up interactive radio buttons to use with filters on the website that let you sort your data based on a specific query.

Text

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Below are the filters used with the designated radio button:

Text

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### Tests

(cont..)

Running tests with this fullstack database would be running your website locally and testing out the interactive filter options and seeing how your data is displayed.A picture containing logo

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### Screenshots

Water Rescue Filter:

**Closer look at filter dog breeds:Table

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**Entire view with graph and map:**

**Graphical user interface, application

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Mountain Rescue Filter:

**Closer look at filter dog breeds :**

**Table

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**Entire view with graph and map:**

A picture containing map

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Disaster Rescue Filter:

**Closer look at dog breeds:**

**Table

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**Entire Disaster Filter view with graph and map:**

**Graphical user interface, map

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**Reset Filter View:**

**(graph would not generate with reset filter)**

**A picture containing graphical user interface

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## Roadmap/Features (Optional)

*Provide an open issues list of proposed features (and known issues). If you have ideas for releases in the future, it is a good idea to list them in the README. What makes your project stand out?  
  
Note: This section is optional for the purposes of this assignment. If you choose not to fill out this section, remove it from your final README file.*

## Contact

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