# CS 340 README

## About the Project/Project Title

This Project is called Database Dashboard for retrieving and displaying data from mongoDB database for client Grazioso Salvare. This database is designed to help them locate animals for shelter and rescueing from known databases throughout the country. With dashboard filtering options and map features it will help the client to find and rescue animals.

## Motivation

*This project is intended to make use of Python language and mongoDB to deliver easy to use dashboard to display data for client and various individuals. Users can use filtering options to find what they need and search option is included as well.*

## Getting Started

*Please import this project’s module.py to your local python code directory. It can be in different folder but same folder is recommended. After that import dashboard.py file and compile it to run the web application dashboard. After running it, click on the IP address to access the dashboard.*

*I have set up custom user role called “aacuser” with permissions to read and write to AAC database. I encountered issues with formatting of dictionary, authorization of the user to execute commands and database not connecting.*

* *I had to give role to “aacuser” again.*
* *I corrected database name from “aac” to “AAC” case sensitive.*

*And now you can use the dashboard. You can filter with categories such as Pet type or genders and search for specific details in the database by the filtering type in options.*

## Installation

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

*Python 3.0+ Download here:* [*https://www.python.org/downloads/*](https://www.python.org/downloads/)

*Mongoclient from PyMongo library*

*mongoDB shell/terminal*

## Usage

### Code Example

def create(self, data):

if data is not None:

print(data)

self.database.animals.insert\_one(data)

print("successfully inserted document.") # data should be dictionary,

return True;

### Tests

*Describe and show how to run the tests with code examples.*

*shelter = module.AnimalShelter() #instantiating animalShelter class*

animal = {

"name": "Gringo",

"type”: "cat"

"age": 2

}

insert\_result = shelter.create(animal) #newly created dictionary

print(insert\_result)

### Screenshots

* Example of importing data of animal\_shelter\_outcomes.csv file from AAC database, animals collection.

A picture containing text, screenshot, font

Description automatically generated

* *Example showcasing creation of user “aacuser” authentication to AAC database, animals collection.*

A screenshot of a computer program

Description automatically generated with medium confidence

* *Example of utilization of Python CRUD Module’s additional features including update and delete.*

*A screenshot of a computer

Description automatically generated with medium confidence*

A screenshot of a computer

Description automatically generated with medium confidence

*Example of Dashboard in action*

*A screenshot of a computer

Description automatically generated*

## Pie chart and map features

A screenshot of a map

Description automatically generated with medium confidence

## Contact

Your name: Raven Oyunjargal