# **Project Two**

# **“Animal Shelter Management”**

**About the Project/Project Title**

This project is an application which allows the user to use a database of animals to create, read, update, and delete data to identify and categorize available animals in animal shelters.

## Motivation

Grazioso Salvare, an international rescue-animal training company, is looking for an application that will take the current data from animal shelters to identify and categorize available dogs in the interest of identifying certain characteristics to help them select dog to train.

## Getting Started

1. Install and setup MongoDB, create the local database.
2. Import the csv file containing the animal data.
3. Create the simple and complex indexes to parse the data on the csv file.
4. Create separate user accounts for both the admin and user accounts.
5. Install Python and a compatible notebook for running the application.
6. Import Project 2 files to notebook
   1. animal\_shelter.py and ProjectTwoDashboard.ipynb files
7. Run ProjectTwoDashboard.ipynb

## Installation

Python3+ /Jupyter Notebook - Python is a popular and easy to read programming language that has a robust standard library with a wide variety of open-source frameworks and tools.

MongoDB – MongoDB is an open source, flexible, scalable and free NoSQL database that is incredibly popular.

PyMongo – PyMongo is the official driver for using Python with MongoDB. It provides tools that allows the user to communicate with a MongoDB server.

## Usage

Please see the video here - <https://youtu.be/jxhIY5nl784> - for a short look at the code, and the application in action. Showcased here is the interactable graph and a scatter plot graph and map that react to the graph.