# Project Two CS 340 README

## About the Project/Project Title

## This project is part of a larger application designed for Grazioso Salvare, an international rescue-animal training company. The purpose of the project is to create a web-based dashboard that allows the client to easily interact with and visualize data from animal shelters in the Austin, Texas area. This dashboard will help identify dogs that meet the criteria for search-and-rescue training.

## Getting Started

* Download this repository.
* Ensure MongoDB is running and accessible.
* Update connection details as needed in the crud\_module.py file.

## Installation

The tools required to run this project include:

Python : The programming language used for the module.

MongoDB: The database used to store and query documents.

PyMongo: A Python distribution containing tools for working with MongoDB.

Dash by Plotly

**Proof of Functionality:**

1. **Dashboard Overview:**

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

1. **Filtered Data Display:**

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

**Challenges:**

One of the challenges I encountered during this project was mistakenly using the db object directly in my filtering function, instead of calling the shelter.read method from the AnimalShelter instance. After some troubleshooting, I was able to identify the mistake and correct it by ensuring that all database interactions went through the proper methods in the AnimalShelter class. Another challenge was adjusting the size of the logo on the dashboard. It took me some time to find the right dimensions that would fit well without distorting the image.

**Contact**:

Mohamed Elmarzougui