**CS-340: 7-2 Project Two: README**

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## CS 340 Project Two

## README

## About the Project/Project Title

This project is for a company called Grazioso Salvare, an international rescue-animal training company. The purpose of this project is to create a software application that works with existing data to identify and categorize available animals, to identify breeds that meet desired criteria for training such as for Water Rescue or Wilderness Rescue.

## Motivation

Grazioso Salvare is a company that searches for good candidates for animal rescue training. Software that will allow them to process large databanks of individual dogs will assist them in more quickly identifying the best candidates.

## Getting Started

To get a local copy up and running, you will need to use the python scripts on a system with access to the Mongo Database installation. The user account credentials for the account authorized to work with the database in question will be needed to authenticate the user in addition to the valid port number.

## Installation

Jupyter Notebook was used to create and test the scripts in question, on a system connected to the Mongo Database. The libraries used include “MongoClient” imported from “pymongo” and “ObjectID” imported from “bson.objectid.”

You will need to import the correct CSV data file into the database using the appropriate commands as pictured below.

A screenshot of a computer

Description automatically generated

Create a new user with appropriate read/write authorization and be sure to remember its login credentials.

A screenshot of a computer program

Description automatically generated

## Usage

The code written can be used to employ CRUD operations within the database using python scripts.

Once the previous steps are completed, the user will simply need to place the python scripts onto the system in the same directory. From there, run the ProjectTwoDashboard, and a browser will open with the database presented nicely in the central window alongside a Pie/chart showing what breeds are available. At the top, are filter tabs for Water Rescue, Mountains/Wilderness Rescue, Disaster Rescue, and Reset. Switching between these will filter the database to show animals that meet the desired criteria for each purpose. Selecting an animal in the list will pinpoint its location on the interactive map.

A screenshot of a computer

Description automatically generated

This screenshot unfortunately does not show all the required functionality due to some sort of strange issue that the teacher and I were unable to determine thus far.