# CS 340 README Project Two

## About the Project/Project Title

*The purpose of this project is to successfully deploy a fully functional MongoDB dashboard with visual representation of data and interactive filtering. This project is a Python-based dashboard built using the Dash framework.*

## Motivation

*This project is designed to allow the client, Grazioso Salvare, to visualize data according to predefined filters. MongoDB was chosen for this project due to its powerful capabilities and integration with Python.*

## Getting Started

*Download the “MyClassFile.py” Python class file and the “ProjectTwoDashboard.ipnyb” dashboard file. Put both files in the same directory as Jupyter Notebook and run the “ProjectTwoDashboard.ipnyb” file.*

## Installation

*A Python IDE, such as PyCharm, is necessary to use this project. This project can also be used with Jupyter Notebook.*

## Usage *To begin, define the necessary MongoDB connection details:*

* ***host = "your\_mongodb\_host"***
* ***port = "your\_mongodb\_port"***
* ***user = "your\_mongodb\_username"***
* ***pass = "your\_mongodb\_password"***

### *Run the application. The data can be filtered by alphabetical order by clicking on the radial buttons next to a category. Use the dropdown menu to filter for various types of predefined queries that find suitable candidates for Water Rescue, Mountain Wilderness, and Disaster/Tracking dogs. This information is displayed below the data in a pie chart.*

### Tests

A screenshot of a dashboard

Description automatically generatedA pie chart with numbers and a number of different colored circles

Description automatically generated with medium confidenceA pie chart with numbers and a number of people

Description automatically generated with medium confidenceA pie chart with different colored bars

Description automatically generated

## Contact

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