# CS-340 Module Project Two: README

## About the Project/Project Title

This project involved the creation of a dashboard for an international animal rescue called “Grazioso Salvare. This company finds dogs that would are easy-to-train breeds for search and rescue training.

## Motivation

Grazioso Salvare needs software to quickly and efficiently differentiate and search through data regarding all sorts of dog breeds that would help pinpoint easily trainable ones for their mission.

## Getting Started

First, this application runs off a database, so you will need a database to grab the data from. There is a sample database within the SNHU Project Two guidelines that you can use to get your code up and running. There is also a IPYNB file in the guidelines that can help you get started as well, align your code with the sample database. You will need to do a lot of prior reading regarding MongoDB and using MongoCRUD functionalities to understand these concepts for this project.

## Installation

You will need to download the most recent version of Python (3.9.12 or higher) (but not any beta version) for your .py file. Otherwise, I used the virtual lab SNHU provides which contains the python shell, mongodb terminal, and jupyter notebooks, all of which you need for this program. Once you have everything setup, you can import the library in.

## Design Justification

The company chose MongoDB for its software design since it can contain a wide variety and rather large amount of data, and it is very adaptable to python in its json formatting and sql design. Inserting data comes with no hassle when using MongoDB, and its versatility allows it to be more efficient than other databases. Regarding usage of the dash framework, the integration with python was low effort and fast, where the view controller filtered and updated the data, the python modules organized and distributed the data which allowed for a quick and easy, user-friendly database.

### Screenshots

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*A screenshot of a computer

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## Contact

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