# CS 340 README Template

*Use this template to complete your README file. When completing the template, keep the headings as they are so that your document has a clear organization. Remove the italicized prompt text after you have completed each section for a polished final document.*

## About the Project/Project Title

The Purpose of this project is to create a visual dashboard for use by Grazioso Salvare which will facilitate finding appropriate animals for use in Search-and-rescue training. The dashboard will use a python CRUD module as well as a visual dashboard created in Dash to aid Grazioso Salvare in their needs.

## Motivation

The motivation for this project is to facilitate Grazioso Salvare’s search for potential candidates for Search and Rescue animals from local animal shelters.

## Getting Started

The user will have access to the visual dashboard after logging in. They will see a neatly displayed business logo, as well as the data from the local animal shelter. There are options to filter depending on the type of search and rescue operations Grazioso Salvare is looking for. These filters will display the appropriate breeds of animals which are adept for certain search and rescue operations, as well as a map showing where the animal is.

Some problems encountered were mainly getting the individual Dash callback functions working properly. There were some issues where the callbacks wouldn’t behave as they should, but after reading more about the Dash framework, these issues were able to be resolved.

## Installation

*Software Required:*

*Mongo DB (Available from their website)*

*Mongo Shell (accessed from the terminal)*

*Python (Latest update available from their website)*

*CRUD Module*

*DASH framework*

## Usage

*Use this space to show useful examples of how your project works and how it can be used. Be sure to include examples of your code, tests, and screenshots.*

### Code Example

*A screen shot of a computer code

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The read and update sections are pretty simple. We insert an animal using the insert\_one() function. If data isn’t entered properly, or at all, we send back a false Boolean with an error message. The Update section is similar, except using the find() function.

### Tests

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This test is run by creating an example animal\_id, and then creating this data via json.loads along with the appropriate information for the database. At the end, if the animal is successfully created, an “animal added” is created.

### Screenshots

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*A screenshot of a computer

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The above screenshots show the dashboard used by Grazioso Salvare which includes the logo, filtering, and map.

## Contact

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