# CS 340 README Template

## About the Project/Project Title

***Title***

*Grazioso Salvare Animal Rescue Dashboard****Overview***

*The project uses Pymongo, Python, and Dash to create an efficient way to search through a database.*

## Motivation

*The motivation behind this project was to work with Grazioso Salvare and develop a dashboard to identify dogs that would be a good fit for search and rescue training to help in search and rescue efforts.*

## Getting Started

*This is an example of how you may give instructions on setting up your project locally: “To get a local copy up and running, follow these simple example steps.”*

1. *Install MongoDB*
2. *Using MongoDB import the CSV file aac\_shelter\_outcome.csv*
3. A screenshot of a computer screen

   Description automatically generated
4. *Create a user that allows read and write permission.*

*A screenshot of a computer program

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1. *Install the following tools below.*

## Installation

*List the tools you need to use the software and how to install them.*

*Austin Animal Center CSV: https://learn.snhu.edu/content/enforced/1698583-CS-340-12459.202481-1/course\_documents/aac\_shelter\_outcomes.csv?isCourseFile=true&\_&d2lSessionVal=ScQoRYLN9OTGv4T9RbCyYwie6&ou=1332057&ou=1698583*

*Python 3: https://www.python.org/downloads/  
MongoDB:* [*https://www.mongodb.com/products/platform/atlas-database*](https://www.mongodb.com/products/platform/atlas-database)

*Jupyter:* [*https://jupyter.org/*](https://jupyter.org/)

Pymongo: https://pypi.org/project/pymongo/

*Plotly Dash:* [*https://dash.plotly.com/installation*](https://dash.plotly.com/installation) *Dash Leaflet: https://www.dash-leaflet.com/*

## Usage

### Code Example

*CRUD Example:*

*from pymongo import MongoClient*

*from bson.objectid import ObjectId*

*class AnimalShelter(object):  
  
 USER = username*

*PASS = password*

*HOST = 'nv-desktop-services.apporto.com'*

*PORT = 32652*

*DB = 'AAC'*

*COL = 'animals'  
  
 self.client = MongoClient('mongodb://%s:%s@%s:%d' % (USER,PASS,HOST,PORT))*

*self.database = self.client['%s' % (DB)]*

*self.collection = self.database['%s' % (COL)]*

# Create method to implement the C in CRUD.

# Create method to implement the R in CRUD.

# Create method to implement the U in CRUD.

# Create method to implement the D in CRUD.

*Filter Example  
A screenshot of a computer

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*Map Example  
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### Tests

*You can run test using Python to set up your CRUD file and using Jupyter Dash to create dashboard that will filter and visualize the data from the Austin Animal Center database. The dashboard includes filtering options like the one shown above and provides display their geographic location on a map.*

### Screenshots

*A red line drawing of a dog

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*A pie chart with different colored circles

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*A screenshot of a computer

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*A map with a blue pin on it

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*A screenshot of a computer

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## Contact

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