7-2 Project Two: Web App Dashboard

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## About the Project/CRUD in Python

The purpose of this project is to create a web application for our customer Grazioso Salvare, and his international rescue training company. The web application works with existing data from animal shelters in the area to identify and categorize available dogs. The dashboard has a built-in table with information about animals in the area. The list can be filtered by the user to return options that fit their needs. It also has a built-in map that shows the location of the animal.

## Motivation

The functionality built into the web application will help Grazioso identify dogs in the area that are good candidates for search and rescue training. Search and rescue training is generally more effective for dogs that are no more than two years old. The breed of the dog can also have an impact on how well a dog performs during search and rescue.

## Getting Started

To get a local copy up and running, follow these simple steps:

1. Clone or Download the Repository:
   1. git clone <https://github.com/j-sanchez/crud-python.git> (not real location)
2. Navigate to the Project:
   1. cd crud-python
   2. If downloaded unzip the folder and open the project in your IDE

## Installation

Tools:

* Python 3.x: Install the latest version of Python from <https://www.python.org/downloads/>
  + To check if Python is already downloaded and the version run -- python -v -- in the terminal.
* MongoDB: Install and configure a local instance of MongoDB. Follow the instructions provided at <https://www.mongodb.com/try/download/community>
* Jupyter Notebook: Install and configure Jupyter Notebook to run the project. Follow the instructions provided at <https://jupyter.org/install>
* bson: pip install bson

## Usage

### Code Example

|  |  |
| --- | --- |
| A screen shot of a computer code  Description automatically generated | The create method inserts data into the MongoDB database if data exists. If data does not exist, the method returns an exception.  The read method finds data using the provided criteria if a criteria is provided. If criteria does not exist, the method return and exception. |
|  |  |
|  | This block of code creates a map that updates based on the row selected. The map will show the lat and long (Location) of the dog. |

### Tests

### Screenshots

|  |  |
| --- | --- |
| A screenshot of a computer  Description automatically generated | The create method expects to receive an input in JSON format. The code on the left shows the creation of a new animal record. |
| *A screenshot of a computer code  Description automatically generated* | The read method will find and read any records where the name of the animal is Adonis. |

## Dashboard Features (Optional)

A screenshot of a map

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The dashboard above shows the list of animals returned. The list is paginated to be efficient when reading data from the database. It is also filterable. Each row can be filtered by the user to return specific data. The last built-in functionality is the ability to choose rows and columns. The ability to choose a row allows the map to update the map with the correct location information.

A screenshot of a map

Description automatically generated

NOTE: While I was testing the code for this project Jupyter notebook in Aporto started giving the error below. I tried updating pandas and numpy, and neither fixed the error. I contemplated removing anaconda completely and redownloading it, but I started running out of time.

A screenshot of a computer

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## Contact

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