**README**

The application is a perfect system that is made up by achieving all the requirements to me the client’s expectation. The application is designed using Python 3 with the help of Jupiter Notebook. There are two modules, the backend that helps as a bridge between the frontend and the database. It connects to the database to retrieve the data.

In addition, the application uses NOSQL database and Mongo database compared to the relational or structured query language-based database. Some of the advantages of the Mongo database are as follows:

* It can handle large volumes of data at high speed
* It enables easy updates to schema and its fields
* It is developer friendly
* It also takes full advantage of the cloud

The project is a simple application that tends to provide data to the user to meet their requirements.

Below are the screenshots of the project where the logo with the unique identifier, filter data using the radio button, pie chart, and the map.

Table

Description automatically generated

A picture containing table

Description automatically generated

A picture containing table

Description automatically generated

Chart, pie chart

Description automatically generated

Map

Description automatically generated

A picture containing chart

Description automatically generated

Some of the steps to be followed to run the project are as follows:

* Required material are available in the server and there is no need for any installation. For the new user only thing needs to be installed is Mongo database and Jupiter Notebook.
* The connection file is needed to connect new file to the database
* The application is developed to generate the database, the chart, and the map.

The Dash library has tons of documentation in the web that is used in the project. Dash library provides tools like data representation, data visualization and many other components like obtaining input from the user.

The error I came across in the project was authentication. Also, I had not found a way of showing a graph and a chart together.