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.ReadMeGraphical user interface, text, application

Description automatically generated

MongoDB was utilized due to its overall functionality and ability to create a program around that functionality. This means that a program can be made to overall read the data sets or even modify the data sets themselves. This allows for a system to create a functional system for the user to be able to create what they want and continuously change the overall functionality of the program or programs. The dashboard will allow the user to switch between what sections they want to use and allow the user to use as little and as much data as they wish. If they want to only look at one data set all they need to do is reset and select the data set, they with to use.

The steps that were needed in order to complete the program is the importation of the data set into mongo DB utilizing the built-in mongo import tools. Next is to create the overall program that reads the mongo DB data sets. The CRUD method was utilized to make the program functional focusing first on the create and read functions which are the most important of the program to allow other instances to be able to read the mongo DB data sets. Next is to be able to update and delete functions within the program itself. This is important with data sets because data points are always changing and require them to be updated or removed entirely. To make these two steps they need to be able to search through all the data sets to find the desired data point(‘s) and change them according to the value.

Once that is completed all that is need is to create the program that will utilize the main program. This creates the GUI (graphic user interface) that the user will interact with in order to accomplish the goals that they are asking of the program. This program creates a verity of data sets that can be added together to create a list of data sets that will be displaced as a pie chart. This most important section of this is to import the correct program using pythons import tool and telling the program how to communicate with the program itself. Once this is done the program will only need the parameters in which the end user is wanting to see and the set up for the mapping of the GUI.

The challenges I faced while creating this program was getting all of the programs to understand one another. They will not allow the username and password field to be read across the field when the program needs to. This difficult creates many issues because the overall program will not recognize the data sets run through mongo DB. There is also a lot of research that is needed when utilizing the HTML functions. While fundamentally they are easy to utilize there are many options with how they can function to create a overall appealing GUI.