Pymongo is used to connect the mongodb database where our data is stored. Using pymongo we are connecting to our expense data collection.

DailyExpense :

At first, we are importing datetime module to know the current date. After getting the data required, we need to iterate through the data and if the date field of the record satisfies with the current date then the amount will be added to the sum.

Finally we will return sum to the main file.

MonthlyExpense:

At first, we are importing datetime module to know the current date. After getting the data required, we need to iterate through the data and if the date field of the record satisfies with the current month, then the amount will be added to the sum.

Finally, we will return sum to the main file.

YearlyExpense:

At first, we are importing datetime module to know the current date. After getting the data required, we need to iterate through the data and if the date field of the record satisfies with the current month, then the amount will be added to the sum.

Finally, we will return sum to the main file.

CategoryExpense:

We need pandas library in this module. Data is fetched from the database with the help of pymongo library and added to different lists. Then the DataFrame is used to structure the data.

Groupyby method of DataFrame is used group the categories of the expense. After grouping the expense by categories, we need to plot the graph. In order to plot the graph we make use of matplotlib.pyplot and the graph is displayed using category name and amount field.

HighestExpense:

Data is fetched from the database with the help of pymongo library and added to different lists. Then the DataFrame is used to structure the data. Groupyby method of DataFrame is used group the categories of the expense. Sum method is used along with the groupby method to display the sum of amount by categories. Then max method is used to access the maximum amount from the dataframe.

LowestExpense:

Data is fetched from the database with the help of pymongo library and added to different lists. Then the DataFrame is used to structure the data. Groupyby method of DataFrame is used group the categories of the expense. Sum method is used along with the groupby method to display the sum of amount by categories. Then min method is used to access the minimum amount from the dataframe.

PerticularExpense:

In order to fetch the details of particular expense we need to get the expense category name by the user. After getting the category name, we need to fetch the data from the database with the help of pymongo library and added to different lists. Then the DataFrame is used to structure the data. Groupyby method of DataFrame is used group the categories of the expense. At last we need to plot the graph with date and sum amount.