Group Name - Budget Ballers

Background of the Study

Managing one's finances has become more important now than ever before, a lot of people find it difficult to keep track of their finances which could lead to bad budgeting practices and could lead to financial instability. A simple way to combat this problem is to have a way to see your expenses and keep track of them, so having a simple expense calculator can help users record, categorize and analyze their spending habits. This project aims to create a Python based expense calculator that can provide a simple user friendly way to manage their finances.

Problem Statement -

A lot of people have a hard time keeping track of their daily expenses and keeping track of many different kinds of expenses daily, weekly and monthly are hard when doing it manually as it can be time consuming and more likely to have errors. While there are existing applications that can track financial expenses they can be complex, feature heavy or behind a paywall which can make it difficult for users that only need a simple solution to their problem. This project aims to develop a simple python application that can help users to input, store, and analyze their expenses.

Objectives -

- Develop a expense calculator that can take user input and categorize them
- Have a summary and graphical representation of the user's total expenses
- Have data management and have a database of their expenses
- Have a simple but user-friendly interface that the user can easily navigate

Significance of the Project -

This project is significant because it can provide users with an easy to use tool for those who need a simple but straightforward way to track their expenses. By giving users the tools to track their expenses it can help users develop better financial management skills, making the program simple and efficient. A large number of users can use the program without having past experience and making it as accessible as possible. It could also be improved by other programmers who want to learn more about python and add useful features.

Methodology -

- Data Storage - The CSV module will be used to store and retrieve data in a structured format which can make data management easier. I could also use sqlite3 for a lightweight database
- User Interface - For a basic user interface I can print and use input functions in early stages of the program but if possible I could integrate the tkinter module for a basic GUI
- Report Generation - I can use the json and datetime module to store and retrieve data while integrating dates while tracking the expenses
- Graphical Representation - Using the matplotlib I could generate a visual representation of the data to make it easier to consume
- Expense Analysis and Computation - I will be using the collections module to use the counter function to allow me to categorize and summarize the expenses and use the

statistics module to total and average them. I could also integrate the pandas in later revisions to do something similar.

Sources -

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