L7 Informatics Internship Program
Assignment

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This python application includes all the necessary functions and requirements which satisfies the given problem statement.

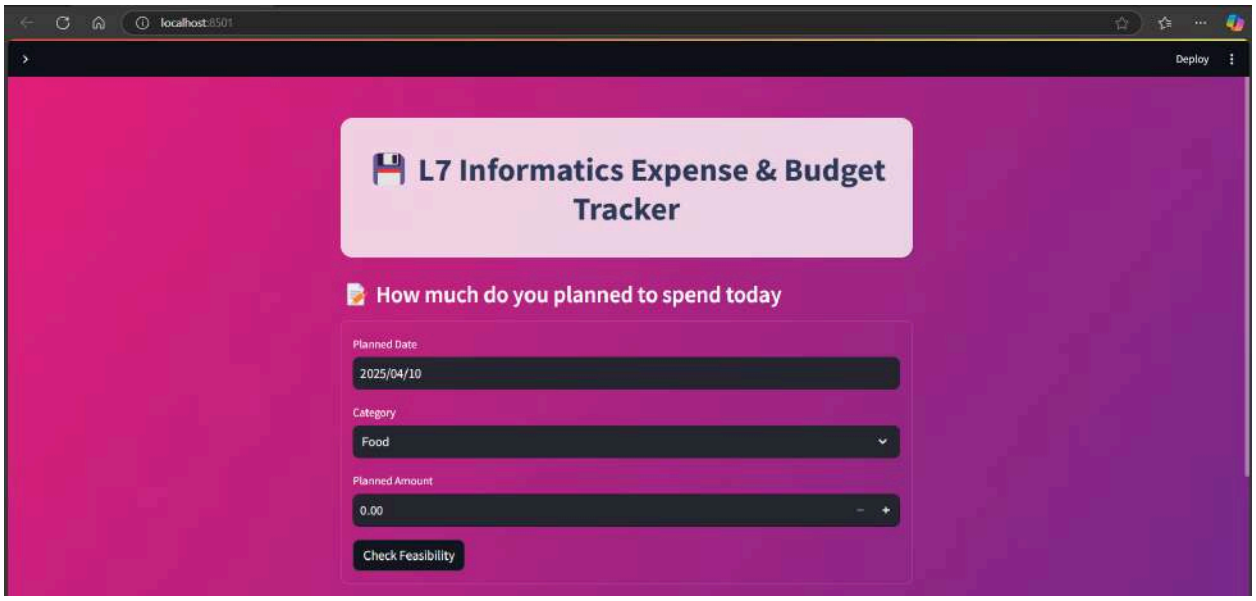
PROBLEM STATEMENT:

Manual managing of monthly expenditure creates errors in budgeting and overspends without visibility on finances. There exists a requirement for an easy, interactive, and automated system for individuals to help with planning, tracking, and controlling their finances. The application helps users manage expenses and budgets, receive alerts, and summaries-in one user-friendly Python interface powered by Streamlit and SQLite.

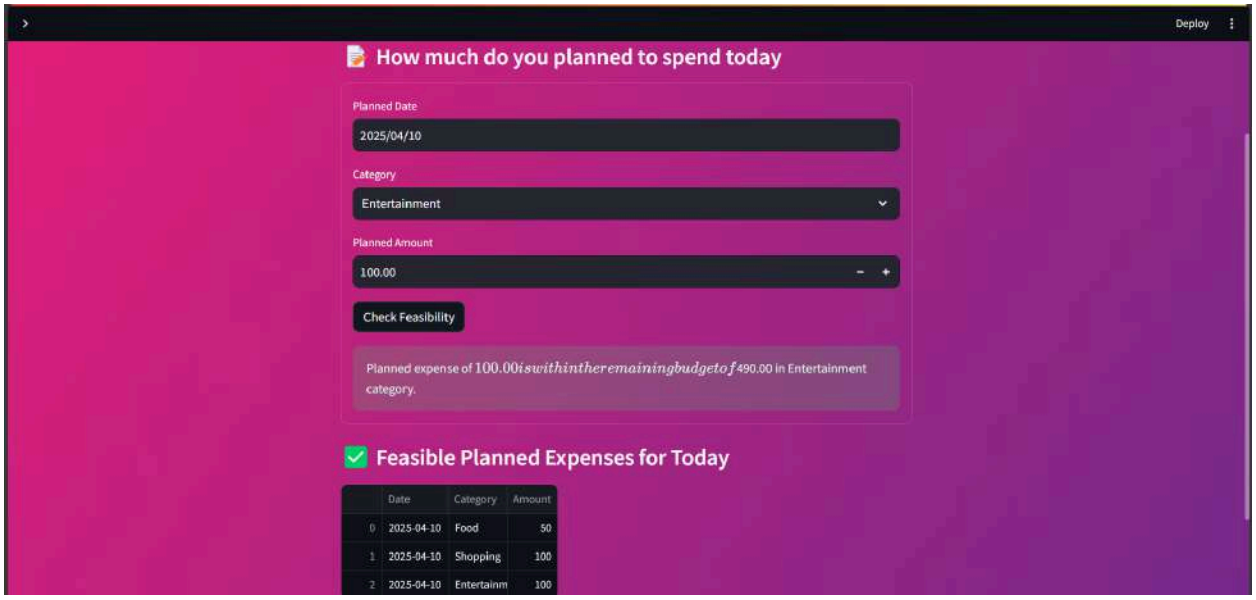
APPLICATION MODULES EXPLAINED:

MODULE 1 (PLAN EXPENSE):

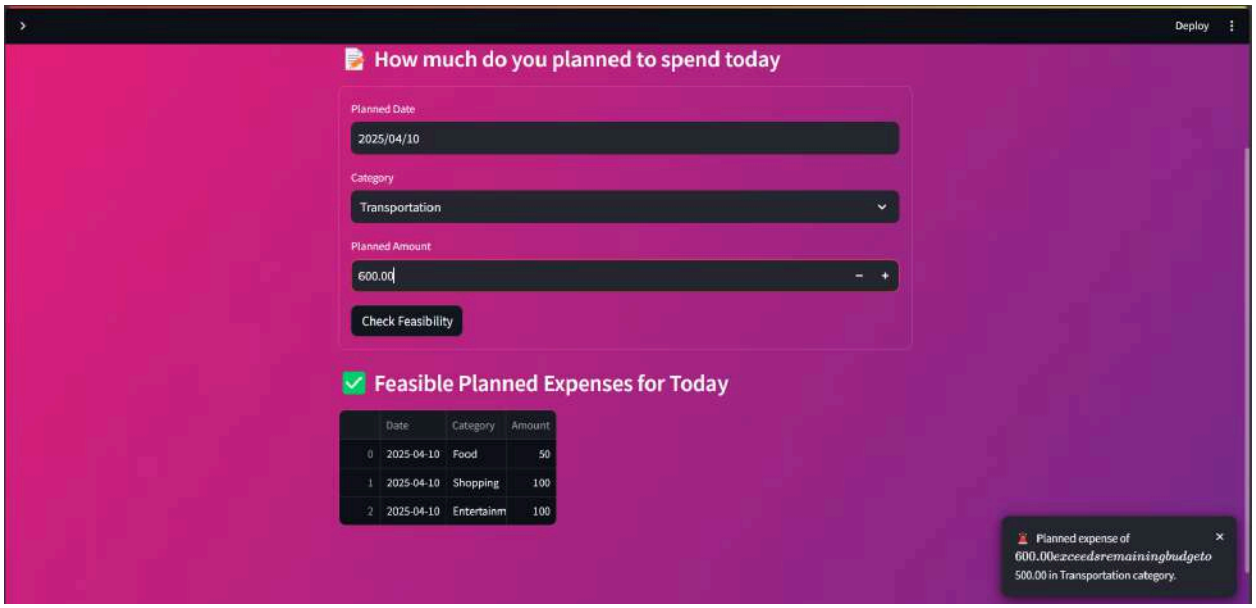
It allows a user to enter a planned expense for a specific day and checks if, within a selected category, that expense is allowable by the monthly budget set. Immediate toast alerts for exceeding the planned limit of remaining budget.



This is the first interface for planning what are the expenses that you are going to do on a day of the month. This is a plan expense module. It will allow users to enter the plan of their expenses and this application will check whether the user's plan will be feasible or not according to the budget.



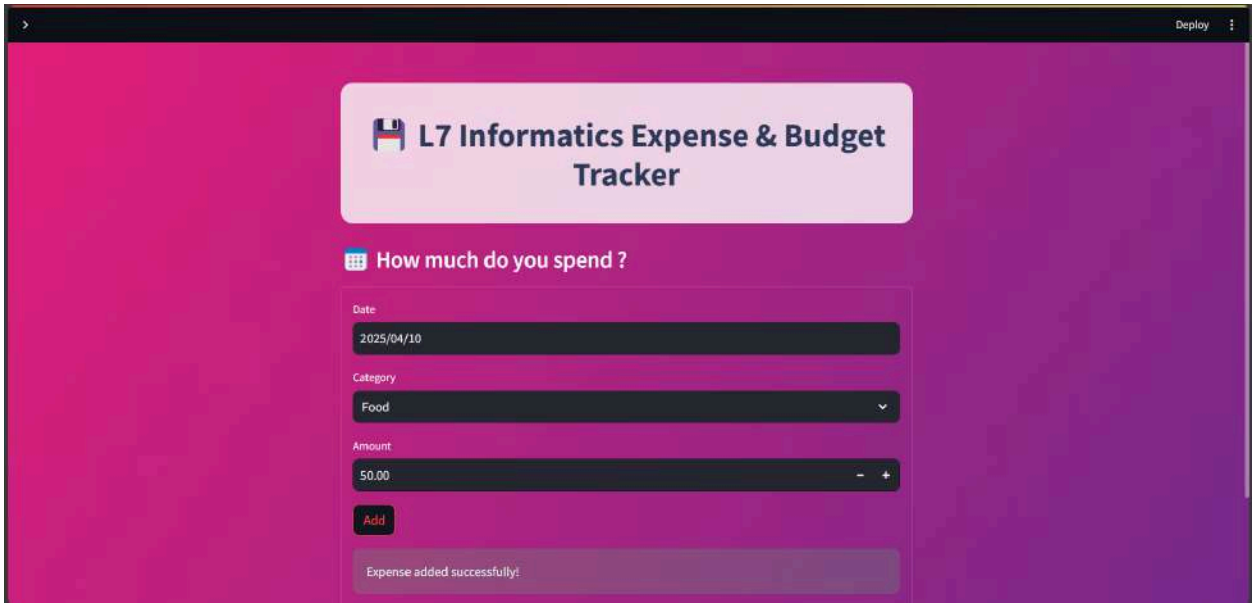
If the plan is feasible according to the monthly budget then it will create it as list for the users .



If the plan is not feasible then a popup alert notification will appear on the right bottom as the planning amount exceeds your monthly budget.

MODULE 2 (ADD EXPENSE):

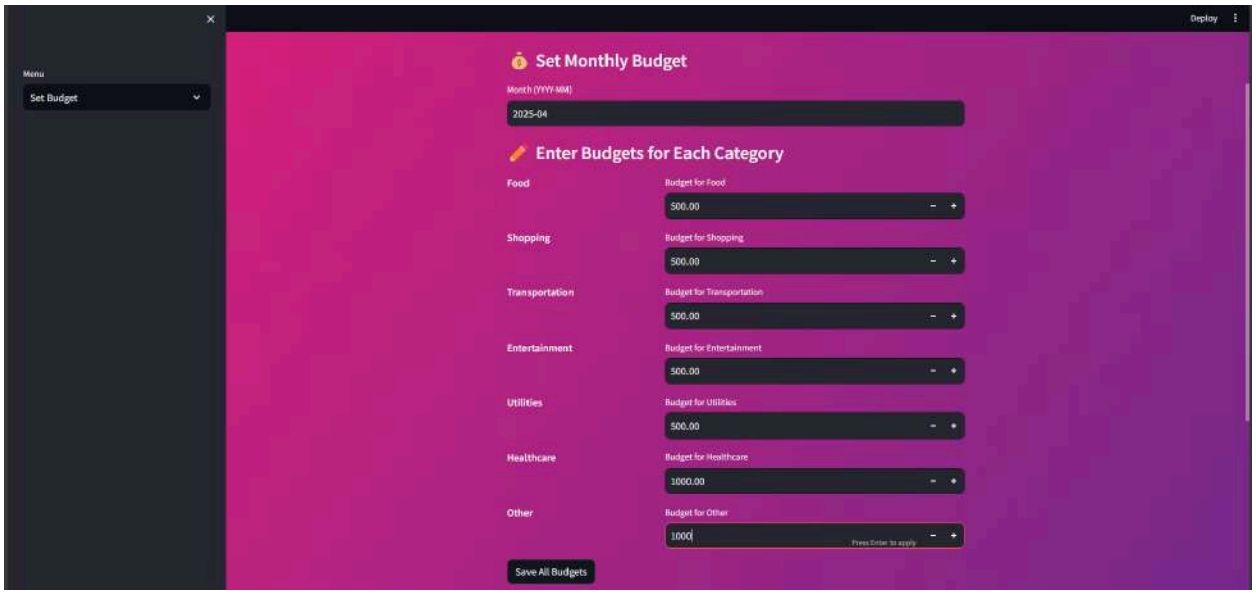
It allows the user to introduce actual expenses on the date, category, and amount in question. Immediate budget check with notification for the user in case of any exceeded/approached monthly budget regarding the new expense entry.



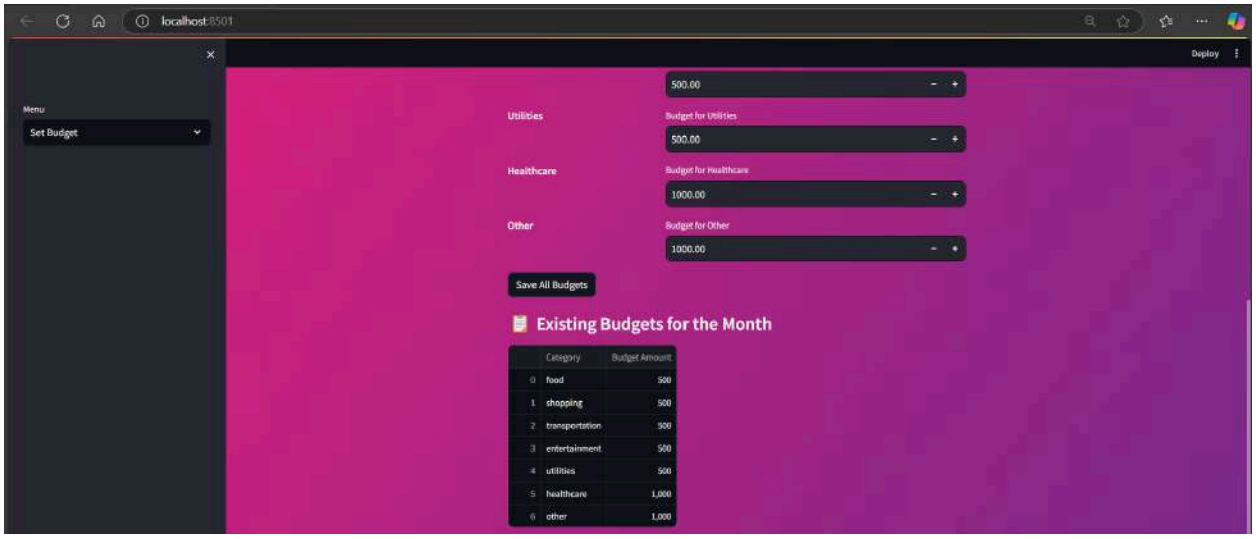
After spending the money, users can add their expense and it will get stored in a database which will contain all the history of the users.

MODULE 3 (SET BUDGET)

Provides an easy-to-use list of common categories (Food, Shopping, Transportation, etc.) where users can enter monthly budgets. When saved, the application value updates and displays it in a table below.



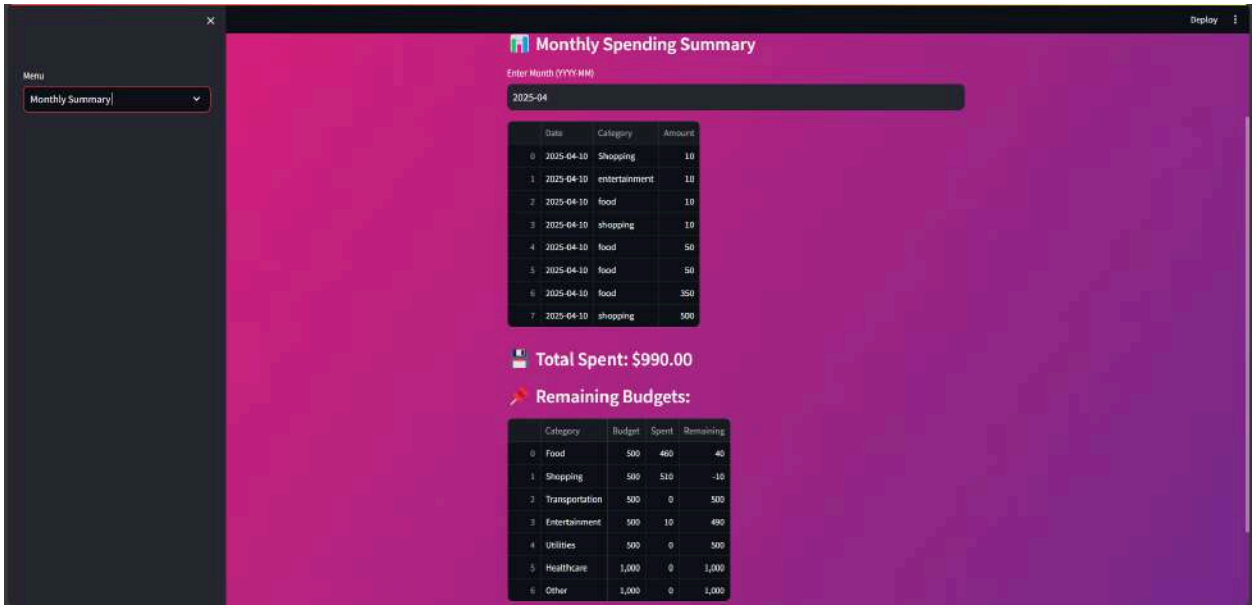
It will provide a list of categories and ask user to enter the budget for each category for a month and it will display as a table as shown below and save the budget for the month.



The monthly budget is saved as a table

MODULE 4 (MONTHLY SUMMARY)

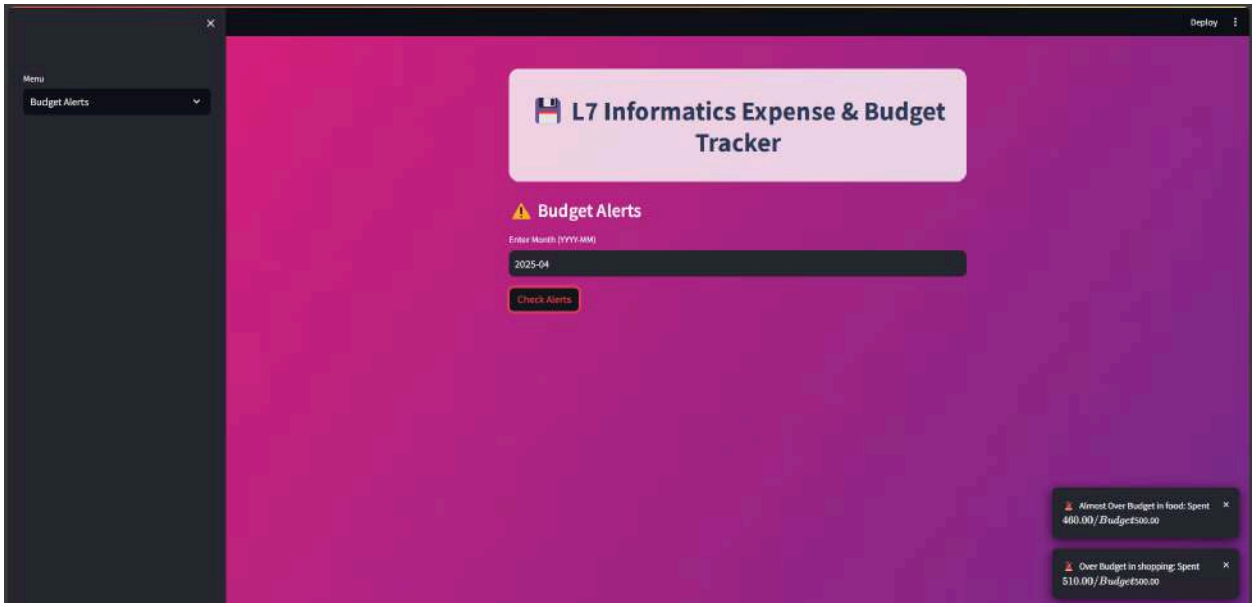
Shows the total monthly expenses with costs in the selected month and calculates how much is left in each category based on the remaining amount from the budget.



This module provides the overall summary of monthly expenses of the users. Also it will show the remaining budgets that users can spend. The table remaining budget will tell the user how much they have spent till now and how much they have remaining to spend in the particular month. To show the alert I have provided expenses that are exceeding the budget.

MODULE 5 (BUDGET ALERTS)

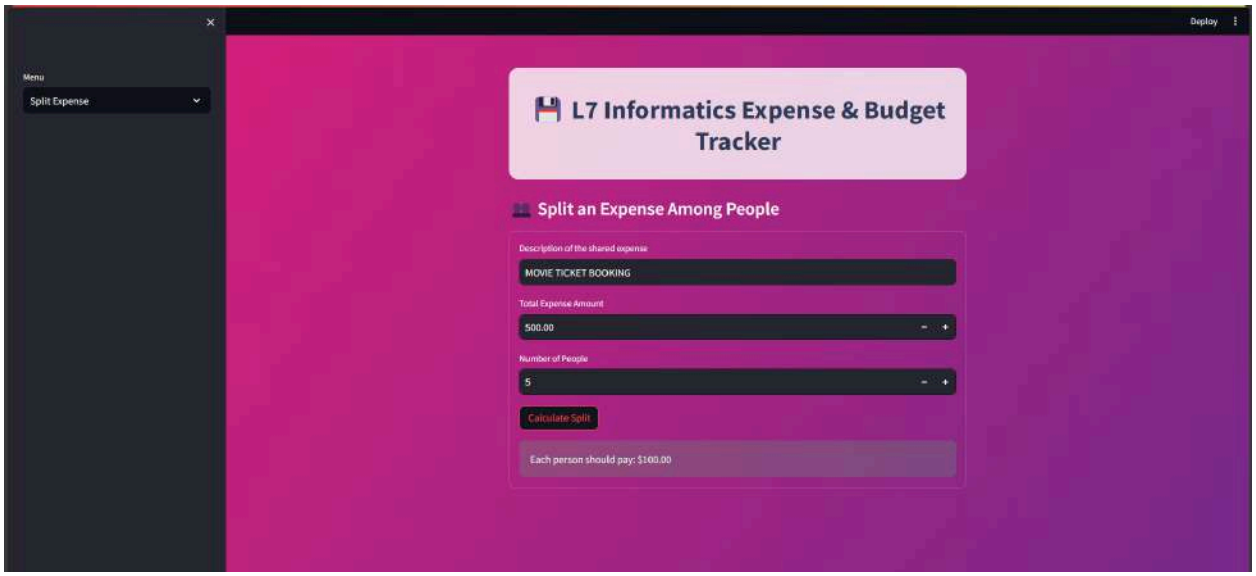
Allows the user to check for alerts when they exceed or are close to exceeding their budgets. Toast notifications are the chosen method for delivering clear visual feedback.



The popup notification says that the user had overspent by 10 rupees from the planned budget for a month for shopping and the expenses for food is almost closer to the budget for the user.

MODULE 6 (SPLIT EXPENSES)

They can enter a shared expense and give the number of people it will be split among. The result will show how much each needs to pay.

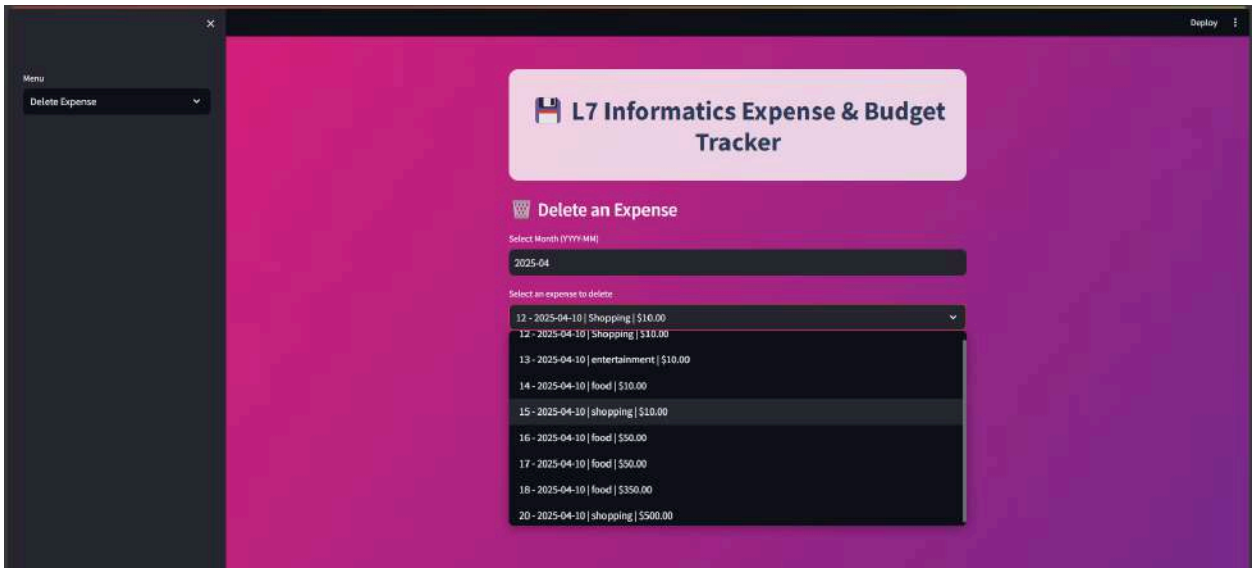


This module is used for calculating how much each person should pay according to the amount spent. It will ask the description of what this split is for, then the total amount he spent, and the

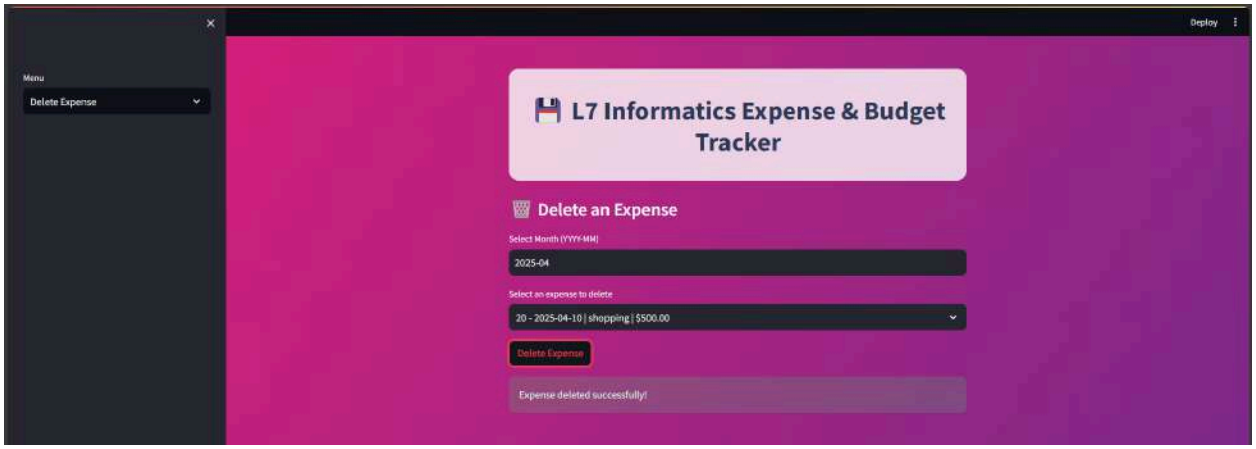
number of people to split the bill. The output will provide an amount of how much each individual should pay.

MODULE 7 (DELETE EXPENSE)

It allows a user to view a month in total with all its expenses, select one item out of it, and remove it. This is very useful for correcting wrongly entered or duplicated expenses.

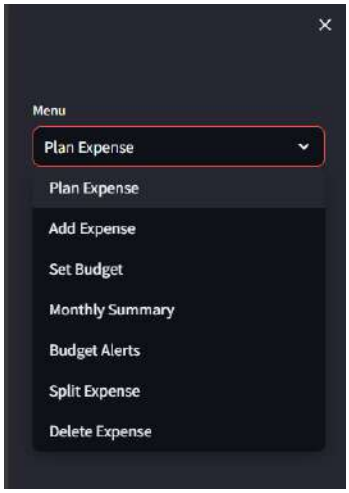


This box will show all the previously entered expenses of the user. And ask which expense to be deleted. This module is particularly built to recover the wrongly entered values .



Once the expense gets deleted it will automatically reflect in all the other modules also. That entry is completely deleted for all the modules of this application.

Finally the Scroll box contains all these seven modules



GITHUB LINK :
https://github.com/varshinibalamurugan/L7-Informatics-Internship-Program-Assignment.git

HOW TO RUN IT?

1. Download the python file and open it in your system (i.e VSC)
2. In the terminal install necessary packages (pip install streamlit pandas)
3. Run the file using the command (streamlit run app.py)

CONCLUSION

This Python-based expense tracker simplifies budgeting by enabling users to plan, record, and monitor their expenses in a clear and interactive way. With real-time alerts, budget summaries, and features like split and delete expense, it provides all essential tools for better financial management in a single, user-friendly application.