

Subject: Python for Computational Problem Solving (PCPS)
Subject Code: UE23CS151A

Mini Project
SEMESTER - I

“Realtime expense manager” → (Budget tracker)

Team details:

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Rithvik Matta - PES2UG23CS485
Yuva Kumar - PES2UG23CS502
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Problem Statement

- In today's age of ever changing prices in a growing economy, it is very important to keep track of your income, spendings and expenses.
- We have made this app to input your expenses, track each category, view your expenses and even receive reports.

Team Roles and Responsibilities.

1. Rithvik Hemanth – core programing, GUI making , function creation
2. Rithvik Matta – Project plan, Information gathering, presentation, testing, ppt making
3. Yuva Kumar – presenting
4. Sachit – module creation, profile creation

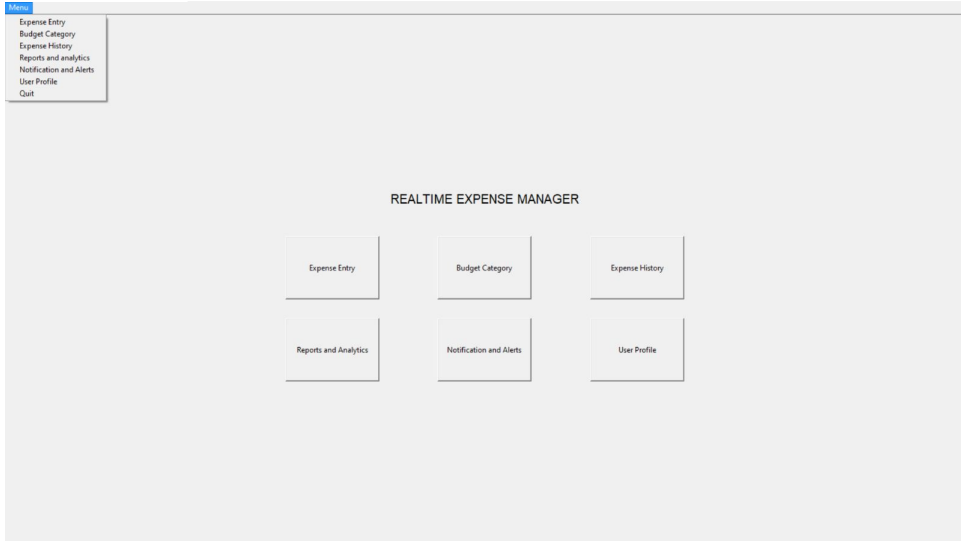
List of inbuilt modules

- ❖ Linking module
- ❖ User Authentication Module
- ❖ Expense Entry Module
- ❖ Budget Categories Module
- ❖ Expense History Module
- ❖ Reports and Analytics Module
- ❖ Notifications and Alerts Module
- ❖ User Profile Module
- ❖ Responsive GUI Design Module
- ❖ Collaboration and Sharing Module

Implementation Details – Pseudocode / Algorithm

- 1) Sign in/Sign up → Enter password → Verification
- 2) Choose the required module
 - a) Entry expense → Enter your all your expenses
 - b) Budget category → Categorise your expenses
 - c) Expense history → View all expenses and budgets
 - d) Reports and analysis → Report of expense(over limit, pending) + bar graph and pie charts to map expenses efficiently
- 3) Notifications → Set up your preferred settings for notifications
- 4) User profile → Set up your profile photo, name, details and other related information

Results and Discussion – Screenshots of outputs



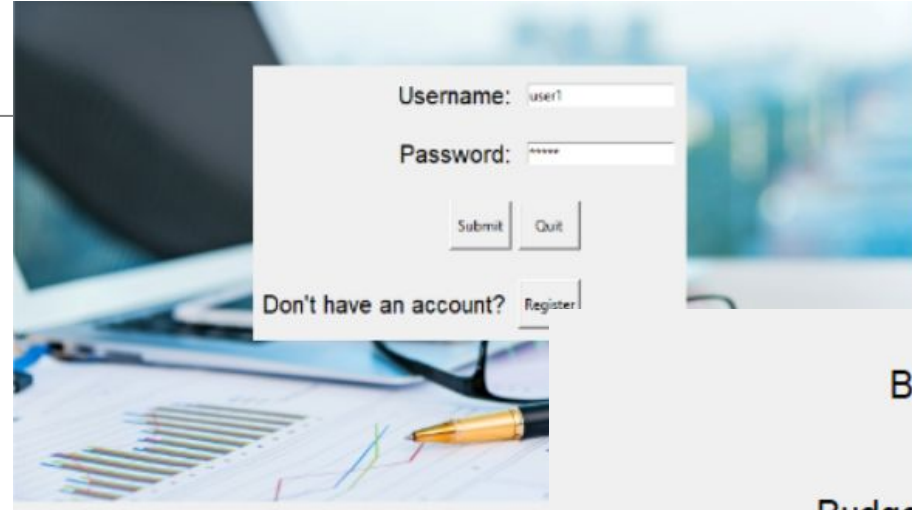
Menu

- Expense Entry
- Budget Category
- Expense History
- Reports and analytics
- Notification and Alerts
- User Profile
- Quit

REALTIME EXPENSE MANAGER

Expense Entry Budget Category Expense History

Reports and Analytics Notification and Alerts User Profile

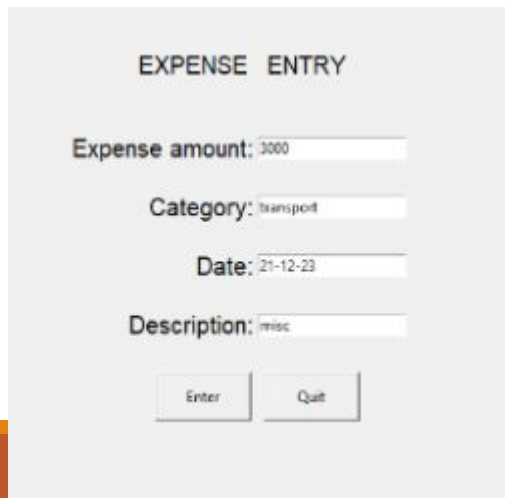


Username: user1

Password: aaaa

Submit Quit

Don't have an account? Register



EXPENSE ENTRY

Expense amount: 3000

Category: transport

Date: 21-12-23

Description: misc

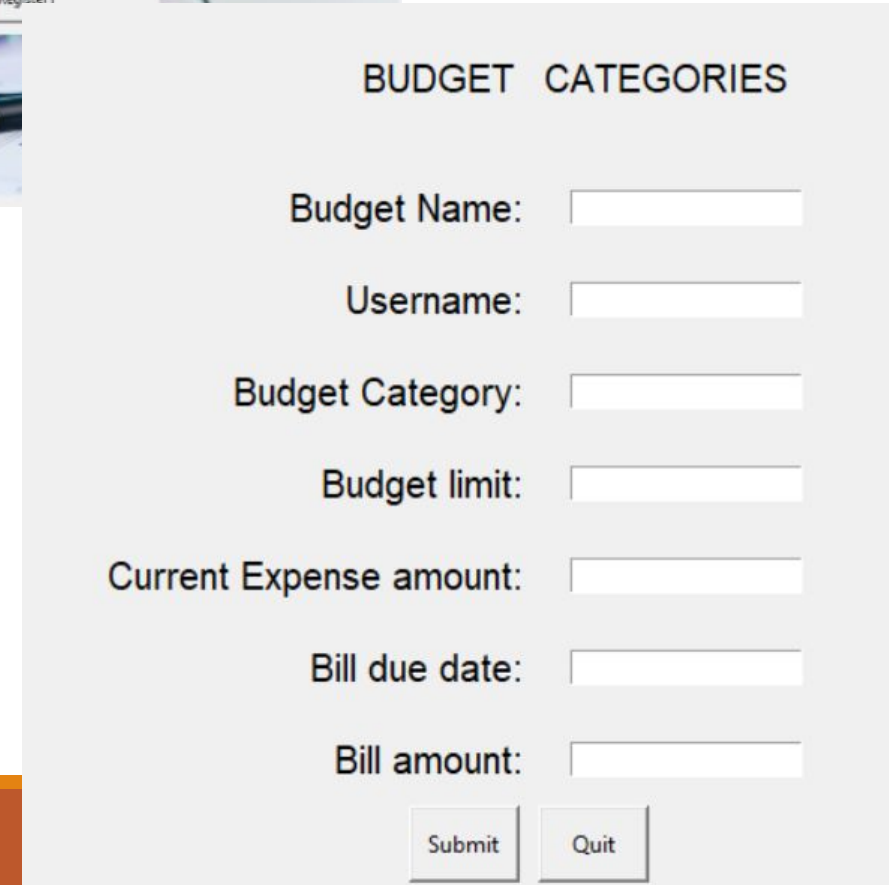
Enter Quit



EXPENSE HISTORY

1000	pes	21-12-23	misc
2000	food	21-12-23	misc
3000	transport	21-12-23	misc

Quit



BUDGET CATEGORIES

Budget Name:

Username:

Budget Category:

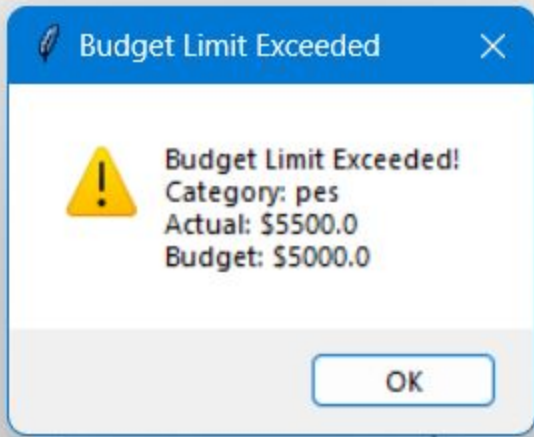
Budget limit:

Current Expense amount:

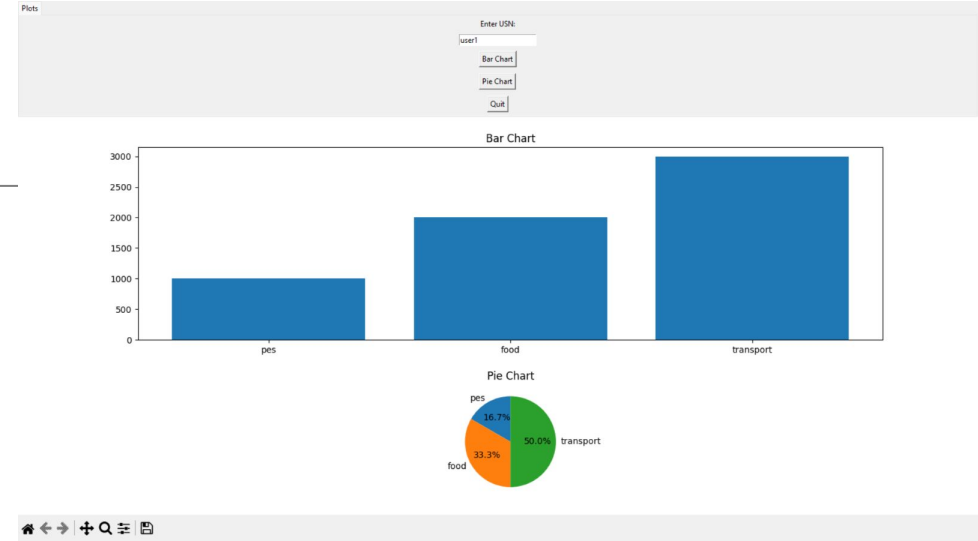
Bill due date:

Bill amount:

Submit Quit



Notification and Alerts



User Profile

Username:

Display Name:

Budget Limit:

Profile Picture:

Learning from this project

Throught this project we learnt how to implement various programs and function

- ❏ Successful implementation of code
- ❏ Logical thinking required for coding
- ❏ Gui making
- ❏ Good grasp of basics of python

Conclusion

- ❏ This app is going to be very useful to everyone.
- ❏ It will help you track and segregate your finances, alerting you about overspending and to keep other expenditures limited.

Future Work

- Connecting bank account
- Encryption and security
- Manual scanning of bills for tax report
- Personalised theme and background
- Access to bank transactions
- Automatic electricity bill payments

Basically have control over all your incomes, expenditures and other money related procedures

References

- <https://www.geeksforgeeks.org/>
- <https://www.w3schools.com/python/>
- bing
- <https://stackoverflow.com/>
- <https://www.python.org/>
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THANK YOU!