L7 Informatics Internship Program Assignment

Python Programming Round (Score : 10)

1. Develop a Python Application that will help users track their expenses and savings goals.

   Requirements
   - Users can log their daily expenses
   - Expenses are categorized (e.g., "Food," "Transport," "Entertainment").
   - Users can set monthly budgets for each category.
   - The system alerts users if they exceed their budget for the category.

   Basic Reports

   - Show Total spending per month
   - Compare spending vs budget per category

If all this seems too easy, extra credit will be given for:

- Allowing users to have different budgets for different months
- Custom alerts, example: alert user when only 10% budget is left
- Email notifications to user for alert
- Allowing users to share expenses, amongst a group (think Splitwise)

The public github link to be shared by the candidate to their corresponding placement coordinator for review from our end.

Scoring breakup
- Working application based on the instructions provided in the ReadMe file with steps to run the application (6)
- Documentation of test steps in the above ReadMe file to validate the application (1)
- SQL Query or ORM abstraction Implementation (1)
- Documentation in the code (1)
- Docker based build and run and commands updated on ReadMe file (1)

General Guidelines
- Share your personal public github repository which contains the above problem statement with the placement coordinator
- Evaluators would simply clone the above repo and follow the instructions in ReadMe to see the output of the application
- Focus on python coding standards in the backend
- Don't spend a lot of time on CSS and front-end development
- Focus on handling edge scenarios and document the same on the ReadMe for the evaluators to validate and score as well

We use plagiarism checkers and your submission would be discarded if there are snippets from Chat GPT. Appreciate if there is individuality in the submission.