Project Overview

The Roommate Expense Tracker is a web application that simplifies the tracking and splitting of expenses among roommates. The project is designed to be skill-building, extensible, and provide real-world applicability to users living with roommates.

 Advantages and Disadvantages

Advantages

Real-world applicability: The application addresses a common need for people living with roommates.

Skill building: Involves a broad spectrum of software development skills.

Extensible: Future features like machine learning algorithms can be added.

Disadvantages

Cope: Depending on the feature set, the project can become complex.

Competition: There are commercial apps with similar functionality; the project needs unique features or improved usability.

 Product High-Level Description

The Roommate Expense Tracker is a web application where users can log in, enter expenses with their roommates, and have an automated tracker displaying expense distribution. It provides insights into spending patterns, helps in reaching savings goals, and allows exporting data to a CSV file.

High-Level Features

Sprint 2 Features

1.      Implement a user interface.

2.      Create a login page.

3.      Build off prototype code to implement client requests.

4.      Have part of the user interface and Python code working together.

Sprint 3 Features (Future)

   1.      Begin testing the user interface and Python code together.

   2.      Implement sending alerts to users.

System Architecture

The system architecture involves a web-based interface, a backend written in Python, and data storage using CSV files.

**Starting Point:**

* Overview of the project on expense tracking.
* requirements for preparing the surroundings.

**Setting up:**

* Installing and setting up the cost tracker locally instructions.

**Application:**

* How to include your housemates' information.

* establishing and overseeing spending categories.

* keeping track of personal spending and contributions.

**Verification:**

* information on the handling of user authorization and authentication.

**Database Structure:**

* An explanation of the tables in the database, such as those for users, costs, categories

**Illustrations and Guides:**

* Real-world illustrations of typical use cases, like creating reports and increasing expenses.

* Detailed instructions for incorporating the cost tracker into different settings.

**Questions & Answers:**

* Responses to frequently asked questions concerning the roommate spending diary.

**Problem-solving:**

* Typical problems and their fixes.

* Debugging and error handling techniques.

**Changelog and Updates:**

* details regarding any breaking changes, new features, and current updates.