Course Name : Software Engineering Laboratory
Course Code: CSE-3206

Group no : 06
Project Name: Smart Expense Tracker

Group Member :
1. Al Sadique Nuhin - 23524202061
2.Md Junayet Hossain Mohit - 23524202065
3.Abdullah Mahmud Yamin - 23524202085
4.Mashrafi Elahi - 23524202137

Submission Date: 26 February 2026

1. Purpose (Objective)

The purpose of the Smart Expense Tracker is to help users record, manage, and analyze their daily expenses efficiently. The system is designed to improve financial awareness by allowing users to monitor their spending habits and maintain better control over their personal budgets.

2. Product Scope

The Smart Expense Tracker is a web-based application that enables users to add their daily expenses, categorize them according to different spending types such as food, transport, or bills, and monitor their overall financial activities. The system provides a simple and interactive interface through which users can review their expense history and observe summaries or reports of their spending patterns. The application is accessible through standard web browsers on both desktop and mobile devices.

3. User Classes

The primary user of the system is the general user who registers and logs in to manage personal expenses. An optional admin user may also exist to manage user accounts and oversee the overall system functionality and performance.

4. Functional Requirements

- User can register an account.
- User can log in securely.
- User can add new expenses with details such as amount, date, and category.
- User can edit existing expenses.
- User can delete expenses.
- User can categorize expenses (Food, Transport, Bills, Shopping, etc.).
- User can view expense history.
- System automatically calculates total expenses.
- System generates and displays expense summaries and reports.

5. Non-Functional Requirements

The system must meet the following quality requirements:

- The system should load within 2 seconds.
- The system must be secure (login authentication required).
- The system should be user-friendly and easy to navigate.
- The system should be mobile responsive.
- The system must store data reliably.
- The system should be available 24/7.

6. Operating Environment

The Smart Expense Tracker operates within a web browser environment such as Chrome, Edge, or other modern browsers. It requires an active internet connection and can be accessed from devices such as mobile phones, tablets, or laptops.

7. Constraints

The system must be developed using HTML, CSS, and JavaScript technologies. Hosting resources may be limited, so the design should remain lightweight and efficient. The application must function entirely as a browser-based system.

8. Assumptions

It is assumed that users have access to a stable internet connection and possess basic knowledge of how to use web applications. It is also assumed that a proper server and database environment are available to store and manage user data.

9. Risks

There is a potential risk of data loss if proper backup mechanisms are not implemented. Security vulnerabilities may arise if authentication and data protection are not properly handled. Server downtime could temporarily restrict user access to the system. Additionally, incorrect data entry by users may affect the accuracy of expense reports.