Play Money

Simple Expense Management Website

6.Requirements

This document outlines the functional, non-functional, and technical requirements based on standard software development guidelines to ensure clarity, completeness, and feasibility.

6.1. Functional Requirements (FR)

These define the core functionalities the system must provide.

6.1.1 User Management

FR6.1.1.1: The system shall allow users to add expenses

FR6.1.1.2: The system shall provide an login feature for users who want to save their data across devices

6.1.2 Expense Management

FR6.1.2.1: The system shall allow users to add expenses with the following details:

Date

Amount

Category (Food, Transport, Bills, etc.)

Notes (optional)

FR6.1.2.2: The system shall allow users to edit existing expenses.

FR6.1.2.3: The system shall allow users to delete expenses.

FR6.1.2.4: The system shall display expenses in a structured list or table format.

FR6.1.2.5: The system shall allow users to filter expenses by date or category.

6.1.3 Reporting & Analytics

FR6.1.3.1: The system shall display a summary of total expenses for a selected period (daily, weekly, monthly).

FR6.1.3.2: The system shall generate visual charts (bar or pie charts) for spending categories.

6.1.4 Data Storage & Backup

FR6.1.4.1: The system shall store expenses locally in the browser (LocalStorage).

6.2. Non-Functional Requirements (NFR)

These define system performance, security, and usability standards.

6.2.1 Performance Requirements

NFR6.2.1.1: The system shall load within 2 seconds on a standard broadband connection.

NFR6.2.1.2: The system shall handle at least 1,000 expense entries per user without performance degradation.

6.2.2 Usability Requirements

NFR6.2.2.1: The system shall have a clean, intuitive, and responsive UI.

NFR6.2.2.2: The system shall support both desktop and mobile browsers.

6.2.3 Security Requirements

NFR6.2.3.1: The system shall not store sensitive user information unless explicitly required.

NFR6.2.3.2: If authentication is implemented, the system shall use secure methods (e.g., OAuth, Firebase Authentication).

6.2.4 Availability & Reliability

NFR6.2.4.1: The system shall be available 99% of the time, excluding planned maintenance.

NFR6.2.4.2: The system shall ensure data persistence, so users do not lose expenses unexpectedly.

## 6.3. Constraints & Assumptions

### Constraints

6.3.1.1 The system **will not integrate with bank accounts** for expense tracking.

6.3.1.2 The system **will not include AI-based expense categorization** in the initial version.

### 6.3.2 Assumptions

6.3.2.1 Users **will manually enter expenses** as there is no automated tracking.

6.3.2.2 Users **will not require multi-user accounts** in the first release.