

Functional Requirements

1) User Registration and Authentication

- The system shall allow users to register, log in, log out, and reset their password securely.

2) Expense Management

- The system shall allow users to add, edit, and delete expense entries, each including category, amount, date, and description, and display recent expenses in reverse chronological order.

3) Category Management

- The system shall allow users to create, edit, delete, and select from predefined categories.

4) Budget Management

- The system shall allow users to set a monthly budget for each category and notify them when expenses approach or exceed the budget.

5) Reports and Analytics

- The system shall generate a summary report of total expenses for a user-specified period, display expenses by category in a chart format, and allow users to export reports as a PDF.

6) Payment Method Management

- The system shall allow users to add, edit, and delete different payment methods (e.g., credit card, cash).

Non-Functional Requirements

1) Performance

- The system should load the expense dashboard within 2 seconds and complete expense data queries and report generation within 5 seconds.

2) Security

- The system shall use encryption to securely store user credentials and sensitive data, and automatically log out users after 15 minutes of inactivity.

3) Usability

- The system should have a user-friendly interface that is easy to navigate, and input forms should provide real-time validation to ensure data accuracy.

4) Reliability

- The system shall have an uptime of 99% to ensure availability and back up data regularly to prevent loss.

5) Scalability

- The system shall handle a growing number of users and expenses without performance degradation.

6) Compatibility

- The system should be accessible on web and mobile platforms, compatible with major browsers and devices.