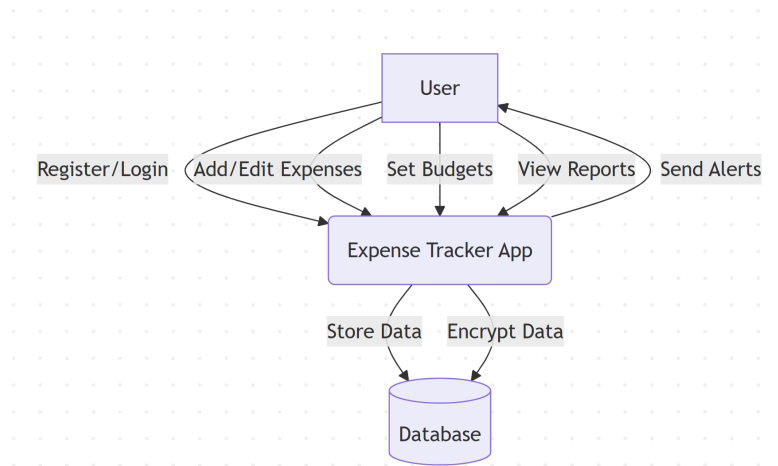


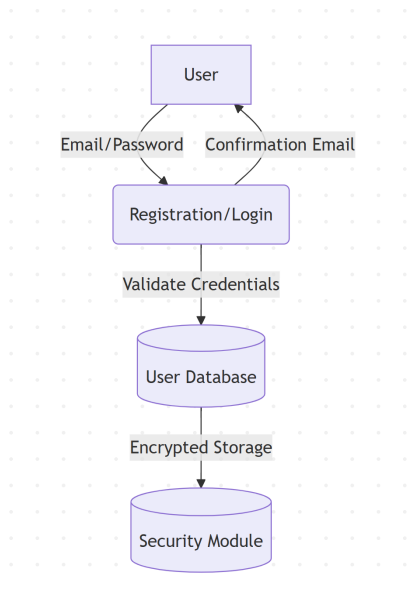
Requirements Gathering and Analysis Phase

Date	15 April 2025
Team ID	SWTID1744094910
Project Title	Personal Expense Tracker App
Maximum Marks	3 Marks

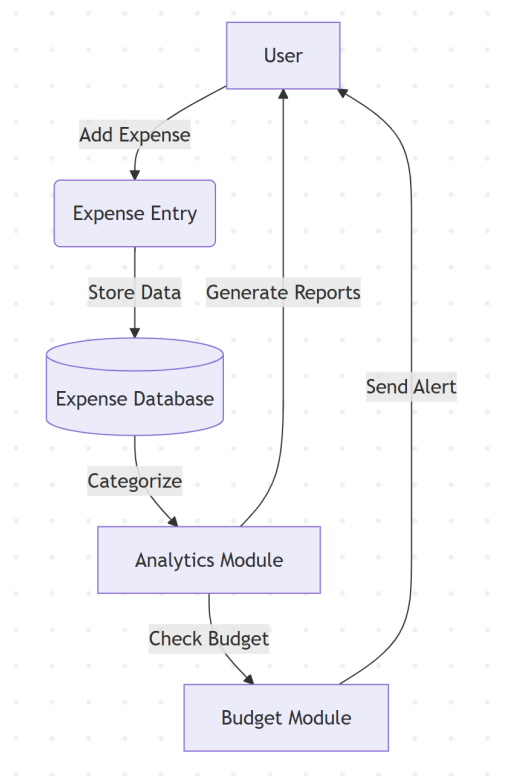
Data Flow Diagrams



Level 0 DFD (Context Diagram)



Level 1 DFD (User Authentication)



Level 1 DFD (Expense Management)

User Stories

1. User Registration & Authentication

User Story:

As a new user, I want to register using my email or social media account so that I can securely access the app.

Acceptance Criteria:

- Email/password registration with validation.
- Social media login (Google/Facebook).
- Confirmation email sent after registration.
- Error handling for duplicate emails/weak passwords.

2. Expense Entry

User Story:

As a user, I want to add expenses with details like amount, date, and category so that I can track my spending.

Acceptance Criteria:

- Manual entry of expense details.
- Auto-suggestions for categories.
- Option to upload receipt images.
- Edit/delete existing entries.

3. Budget Management

User Story:

As a user, I want to set monthly budgets for categories like groceries and utilities so that I can avoid overspending.

Acceptance Criteria:

- Customizable budget limits per category.
- Real-time progress bar.
- Notifications when nearing/exceeding budgets.

4. Analytics & Reports

User Story:

As a user, I want to view spending patterns through charts and reports so that I can identify areas to save money.

Acceptance Criteria:

- Monthly/weekly spending summaries.
- Pie charts and bar graphs for categories.
- Export reports as PDF/CSV.

5. Multi-User Support

User Story:

As a parent, I want to invite family members to track expenses together so that we can manage our household budget collaboratively.

Acceptance Criteria:

- Invite family via email/link.
- Role-based access (view/edit permissions).
- Shared expense tracking.

6. Security & Privacy

User Story:

As a user, I want my financial data to be securely stored and encrypted so that I can trust the app with sensitive information.

Acceptance Criteria:

- End-to-end encryption for data.
- Two-factor authentication (2FA).
- GDPR-compliant data handling.