

# **Project Proposal for Personal Expenses Tracker App**

## **Github Repository link for the project**

<https://github.com/madkonda/ExpenseTracker>

## **Team members**

Madhu Sudhan Reddy Konda

Sri Haneesha Davuluri

## **App Purpose**

The Personal Expenses Tracker app aims to help users manage and track their daily expenses efficiently. By providing a user-friendly interface and robust functionality, this app enables users to visualize their spending habits, categorize expenses, and make informed financial decisions.

## **Wireframe Overview**

The wireframe is a crucial element of our app design, offering a visual blueprint of the user interface (UI) and layout. It illustrates the flow of the application, the arrangement of elements, and the interactive components on each screen.

## **Layouts**

### **1) Home Screen**

- Purpose: Serve as the main dashboard for users.
- Components:
  - App Bar: Displays the app title and a button to add new transactions.
  - Summary Section: Shows total expenses for the current month.
  - Recent Transactions List: A scrollable list of the latest transactions with brief details (amount, category, date).
- Floating Action Button: For adding new transactions.
- Toggle Button: Switch between viewing a chart or a detailed list.

### **2) Add Transaction Screen**

- Purpose: Allow users to input details for a new expense.
- Components:
  - Input Fields: For title, amount, category, and date selection.
  - Submit Button: To save the new transaction.
  - Cancel Button: To return to the Home Screen without saving.

### **3) Transaction List Screen**

- Purpose: Display a comprehensive list of all transactions.
- Components:

- Search Bar: To filter transactions by title or date.
- Filter Options: Allow users to sort transactions by category or date.
- Transaction Items: Each item shows details and has a delete button for removal.
- Empty State Message: Displays when there are no transactions.

#### 4) Chart Screen

- Purpose: Visualize spending patterns over a specified time.
- Components:
  - Graph: Bar or pie chart showing expenses by category or time period.
  - Date Range Selector: To customize the timeframe for the data shown.
  - Legend: Explains categories represented in the chart.

#### 5) Settings Screen

- Purpose: Enable users to customize their experience.
- Components:
  - Notification Preferences: Toggle for reminders on expenses.
  - Category Management: Options to add, edit, or delete expense categories.
  - Theme Options: Light/dark mode toggle for interface customization.
  - Save Button: To confirm changes.

### Unique Screens

1. Home Screen
2. Add Transaction Screen
3. Transaction List Screen
4. Chart Screen
5. Settings Screen

### Functionality

The app features smooth transitions between screens, enhancing the user experience.

- 1) Transition from Home to Add Transaction Screen:
  - Triggered by the floating action button.
  - Displays a modal bottom sheet with a form.
- 2) Transition from Home to Transaction List Screen:
  - Navigated via a button or swipe gesture.
- 3) Transition from Home to Chart Screen:
  - Activated by a button to toggle visual insights on spending.
- 4) Transition from Transaction List to Chart Screen:
  - Users can select a filter option to visualize specific transactions.
- 5) Transition from Settings to Home Screen:
  - Changes are saved and returned to the home screen for a seamless experience.

## **User Experience Use Cases**

Each screen is designed with specific use cases in mind to enhance user experience:

### **1)Home Screen:**

- Users can quickly view recent transactions and total expenses, with an easy option to add new entries.

### **2)Add Transaction Screen:**

- Users input transaction details (title, amount, category, date) in a simple, guided format.

### **3)Transaction List Screen:**

- Users browse, filter, and delete transactions effortlessly, providing an organized view of their expenses.

### **4)Chart Screen:**

- Users interact with graphs to analyze spending trends over time, fostering better financial awareness.

### **5)Settings Screen:**

- Users customize app preferences, improving overall usability.

## **Iterative Design and Testing Approach**

To ensure the app meets user needs effectively, we will employ an iterative design process.

Throughout the design process, the wireframe will be continuously refined based on user feedback. We will conduct usability tests with low-fidelity prototypes to gather insights, focusing on:

- Navigation: Ensuring users can intuitively move between screens.
- Element Placement: Assessing the effectiveness of UI components in facilitating user tasks.
- Visual Clarity: Making sure that each screen communicates its purpose clearly.

## **Roles and Responsibilities**

Each team member will contribute significantly throughout the project lifecycle:

- Madhu: Backend Development, Database Management, Functionality Implementation, Project Management, Timelines and Documentation, Team Coordination.
- Haneesha: UI/UX Design, Frontend Development, Wireframes, Usability Tests, Implementing User Interface, Testing and Debugging, Analyzing Feedback, Iterative Design Adjustments.

### Potential Benefits to Users

- Improved Financial Awareness: Users gain insights into their spending patterns, enabling better financial planning.
- User-Friendly Interface: Simple navigation and input methods make it accessible to all users, regardless of tech-savviness.
- Personalized Experience: Users can customize settings to fit their financial habits, enhancing engagement and satisfaction.

### Conclusion

The Personal Expenses Tracker app presents a valuable tool for users seeking to manage their finances effectively. Through a collaborative effort, we aim to deliver a high-quality application that not only meets user needs but also provides an enjoyable and intuitive experience.

### Declaration

We, the undersigned members of the group, acknowledge that we understand the conditions set forth in this proposal. We are committed to actively participating in the implementation of the group project from start to finish. We understand that individual grades may vary based on our contributions and performance, and we agree to present an important phase of the work collectively.

Signed proposal:

<b>Name:</b> FN <u>Sri Haneesha</u>	LN <u>Davuluri</u>	[ SD ]
<b>Name:</b> FN <u>Madhu Sudhan Reddy</u>	LN <u>Konda</u>	[ MK ]

This proposal delineates our strategy for crafting an engaging interactive website, emphasizing the utilization of Flutter to orchestrate captivating user experiences. We contend that this initiative resonates deeply with the core tenets of the Flutter framework, particularly its focus on seamless UI development, widget-based architecture, and expressive animations. By harnessing Flutter's robust capabilities, including its rich widget library, reactive framework, and hot reload feature, we aim to deliver an immersive digital platform that seamlessly integrates visually stunning designs with fluid user interactions. We are enthusiastic about the prospects of this endeavor and are eager to embark on this journey to materialize our vision.