Mehran University of Engineering and Technology, Jamshoro

CEP PROJECT REPORT

EVENT PLANNER APPLICATION

Presented by

LARAIB AYOUB 21SW120(SEC01)

HASNAIN KHAN 21SW114(SEC01)

MUBEEN 21SW040 (SEC01)

Submitted To

MA'AM MARYAM MEMON

Real World Problem Identification:

Problem: Event planning is often a chaotic process involving multiple tasks such as managing guest lists, tracking tasks, setting reminders, and budgeting. The need for a centralized mobile solution to streamline these activities is evident, especially for personal or small business events.

Proposed Solution:

The Event Planner App centralizes all event planning tasks into one mobile application, allowing users to organize guest lists, track tasks, and manage budgets efficiently.

The Event Planner App is designed to solve event management problems by providing the following features:

Animated Splash Screen:

The app launches with a visually engaging animated splash screen displaying the app logo and event planning elements, enhancing the user experience with a professional and attractive entry point.

Login/Signup:

Allow user registration and login using Firebase Authentication.

Event Dashboard:

A main dashboard screen showcases a list of created events, each presented as a square-shaped card with an event image, name, and basic details.

Users can add new events using a floating action button (FAB). When clicked, a dialog box appears, prompting users to input details such as the event name, organizer name, and the option to upload an image.

Event Details Screen:

Users access the Event Details Screen upon selecting an event from the dashboard. This screen includes:

Interactive buttons for navigating guests, task, and budget management screens.

A calendar icon button next to the event date, allowing users to select and update the event date via a date picker.

A budget input field where users can specify the total budget for the event.

Guest Management:

The Guest Manager screen offers a search bar for finding and managing guests, with a floating action button to add new guests.

Guests are displayed with attendance indicators, showing if they are confirmed or pending, for clear and efficient management.

Task Management:

The To-Do List screen provides an organized view of tasks related to the event. It features a search bar for task filtering and a FAB to add new tasks.

Tasks can be marked as completed, with the UI updating to display crossed-out text and color changes, indicating their completion status.

Budget Management:

The Budget Screen displays the event's total budget and allows users to add transactions via a FAB.

A budget input feature enables users to enter the event budget in PKR, with the screen showing the current budget status and a summary of all transactions.

Responsive User Interface:

The app maintains a consistent color scheme focused on purple shades, ensuring a modern and cohesive design.

UI components like FABs, input fields, and event cards are responsive, delivering an intuitive user experience on various screen sizes and devices.

RESPONSIVE USER INTERFACE:
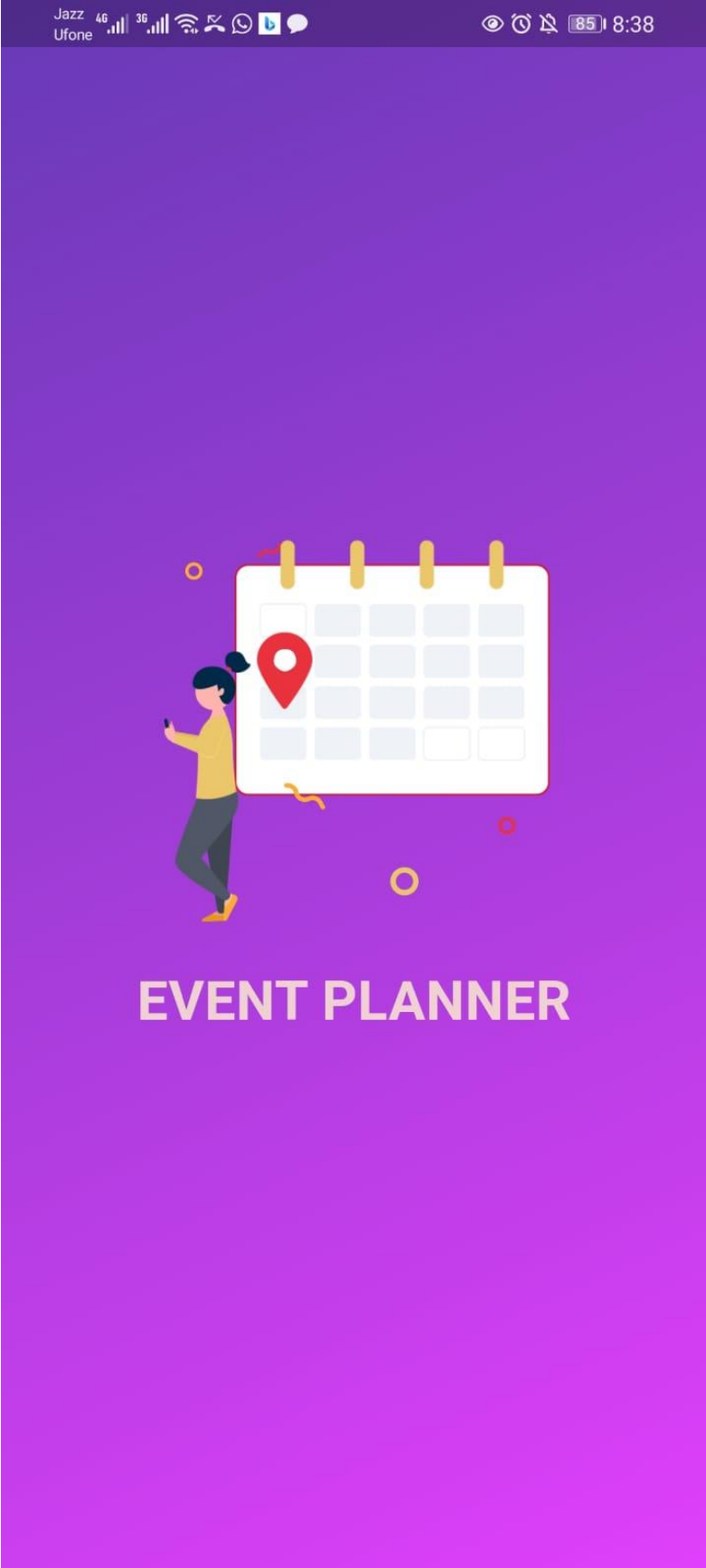
EVENT PLANNER

localhost:64356

← Sign Up

Name

Email

Phone Number

Password

Event Role (e.g., Organizer, Guest)

Sign Up

Already have an account? Login

Login

Email
Madlab@4783gmail.com

Password
•••••••

Login

Don't have an account? Sign Up

Event Dashboard

No events added yet!

+

Event Dashboard

Add New Event

Event Name

_____

Organizer Name

_____

Upload Image
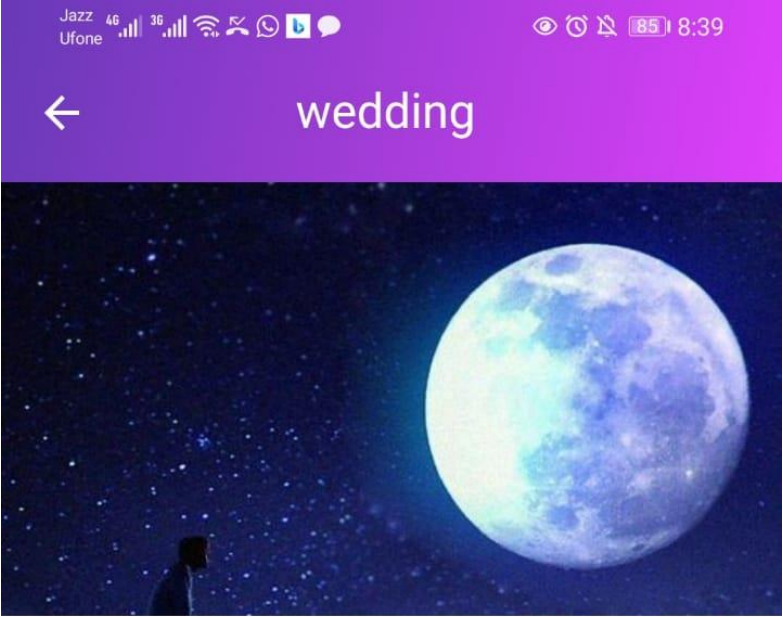
Cancel   Save

+

Event Dashboard

wedding

+

← wedding

2024-10-25 🗓

Guests
List of people invited

Manage

Tasks
To-do list

Manage

Budget
Spending

Manage

← Event Guest Manager

🔍 Search guests

➕

← **Event Guest Manager**

🔍 Search guests

laraib ✓

+

← Event Guest Manager

🔍 Search guests

laraib   🕐

+

To-Do List

🔍 Search tasks

order food ⊘

╋

← **To-Do List**

Q Search tasks

order food ✓

+

← wedding

PKR 0.00

Total Budget

No tr
belo

Enter Total Budget (PKR)

Total Budget

_____

Submit

+

1	2	3	(	)	,
4	5	6	+	-	;
7	8	9	/	N	⌫
*	0	#	.		↵

← wedding

PKR 50000.00

Total Budget

No transactions yet. Add one using the button below.

+

← wedding

PKR 50000.00

Total Budget

No transactions yet. Add one using the button below.

Add Transaction

Category

Amount (PKR)

Cancel   **Add**

+
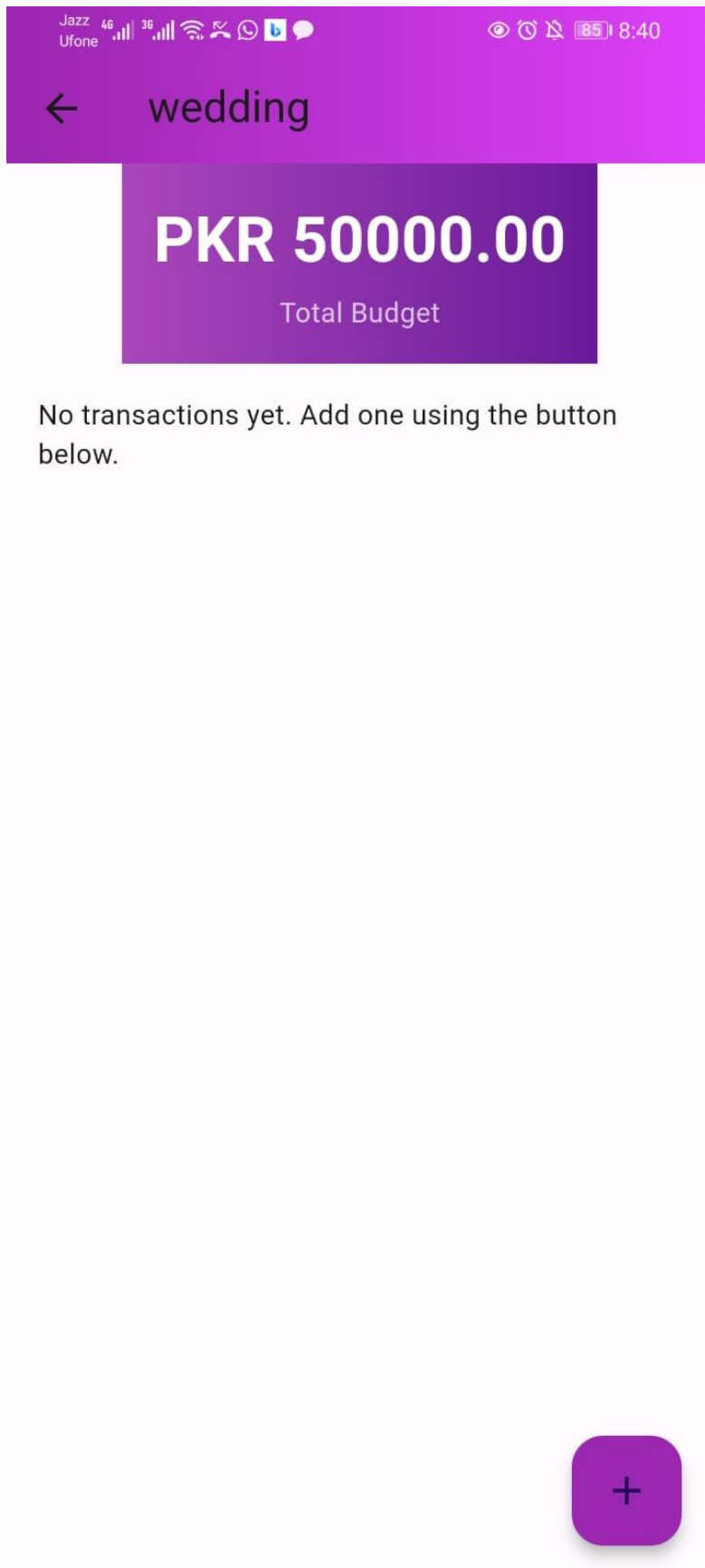
← wedding

PKR 49000.00

Total Budget

Transactions

💲 catering   PKR 1000.00
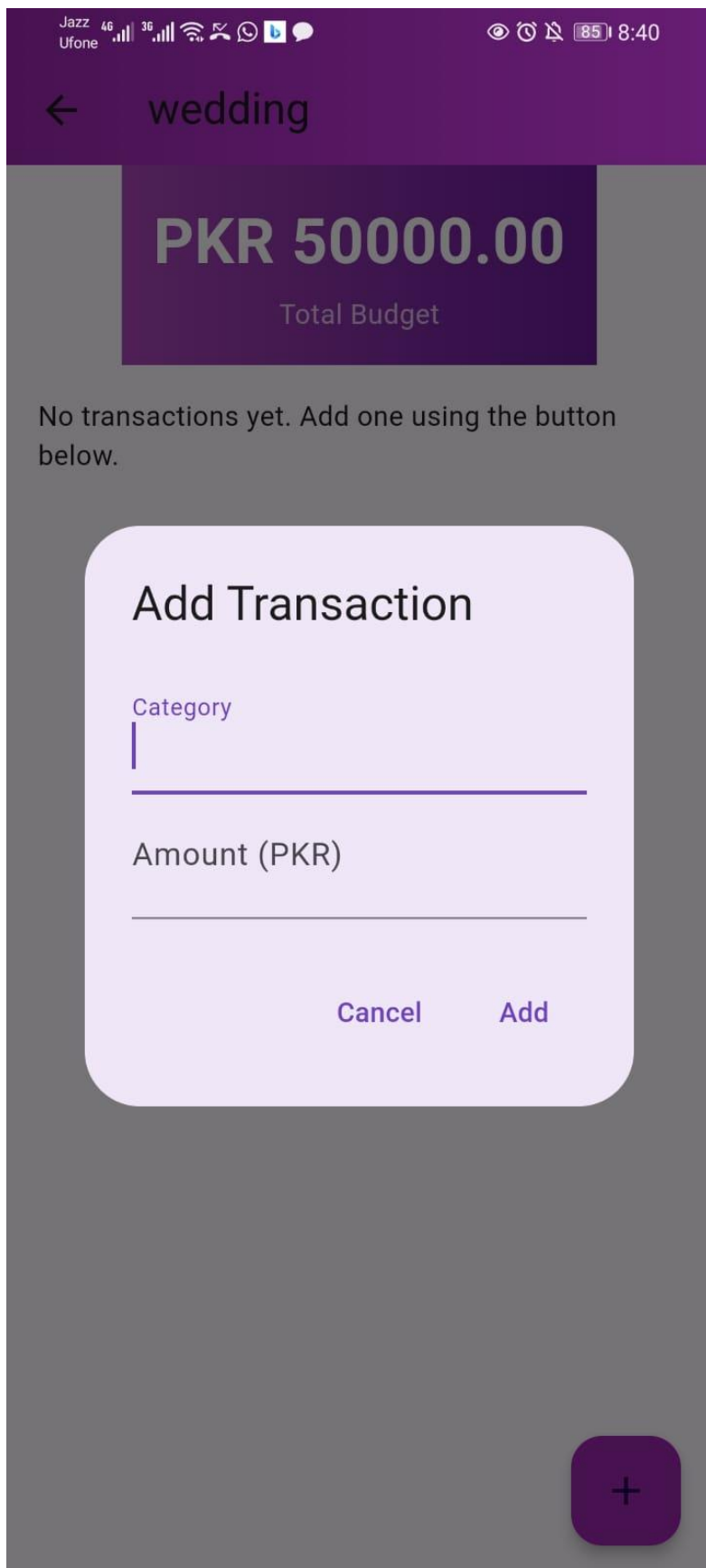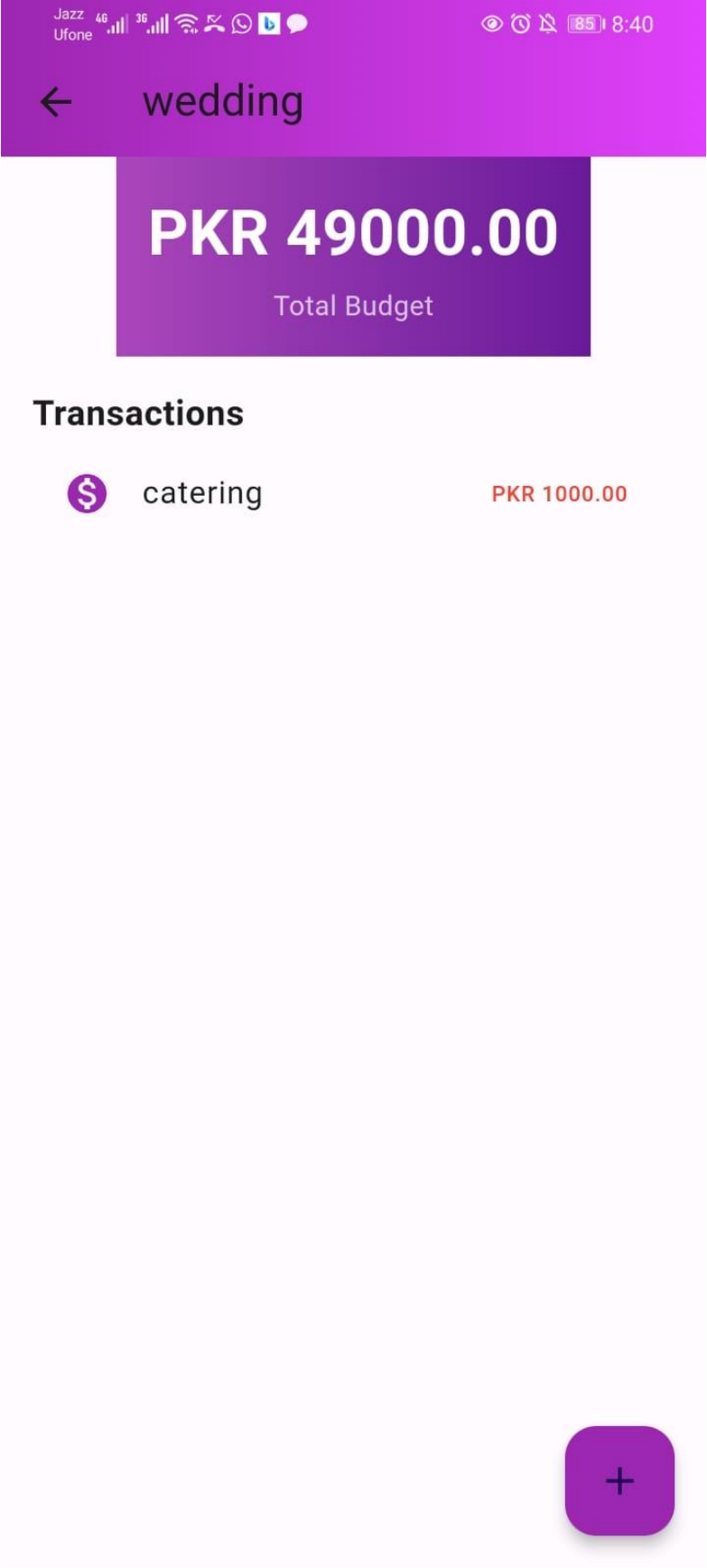
+

Data Storage:

Storage Solution:
Firebase Firestore is used to store data on the cloud, allowing real-time updates and accessibility across devices.
Justification:
Firebase was chosen due to its seamless integration with Flutter, real-time database capabilities, and scalability for future app growth

Optional Section: APIs/Packages/Plug-ins:

Firebase Packages

- **firebase_core:**
  - Purpose: Initializes Firebase services within the app.
  - Justification: Essential for connecting the app to Firebase's backend services, enabling features like authentication and Firestore. Provides a stable foundation for other Firebase functions.
- **firebase_auth:**
  - Purpose: Manages user authentication for login, registration, and session management.
  - Justification: Simplifies secure user authentication, handling login and signup without needing to build a custom authentication solution. Ensures data privacy and protection.
- **cloud_firestore:**
  - Purpose: Provides real-time NoSQL database for storing and retrieving data, like event details, guest lists, tasks, and budgets.
  - Justification: Firestore's scalability and real-time capabilities make it ideal for dynamic data updates. Its structure also simplifies data storage and retrieval across multiple users and devices.

Issues and Bugs Encountered and Resolved During Development:

Responsive Layout Problems:

UI elements did not align correctly on different screen sizes, particularly on tablets and larger devices.

State Management Complexity:

Managing state across multiple screens (e.g., Dashboard and DetailScreen) was challenging, causing data inconsistencies.

Navigation Challenges:

Difficulty in managing navigation between screens, especially when moving back to previous sections.