

Flutter Final Assignment

**A Complete Flutter Application with
Key Features**

Introduction

- This project is a Flutter application built for Android, incorporating essential Flutter concepts such as widgets, state management, theming, API integration, Firebase, and localization.

Widgets and UI Design

- • Used Stateless and Stateful Widgets
- • Implemented Material & Cupertino Widgets
- • Responsive Layouts for better UX
- • Custom styling and themes

Navigation & Gesture Handling

- • Implemented multiple screens
- • Used named routes for navigation
- • Gesture detection for user interactions

API Calling & Database

- • Integrated REST API for data fetching
- • Used HTTP package for API calls
- • Local Database Implementation (SQLite)
- • CRUD Operations for data management

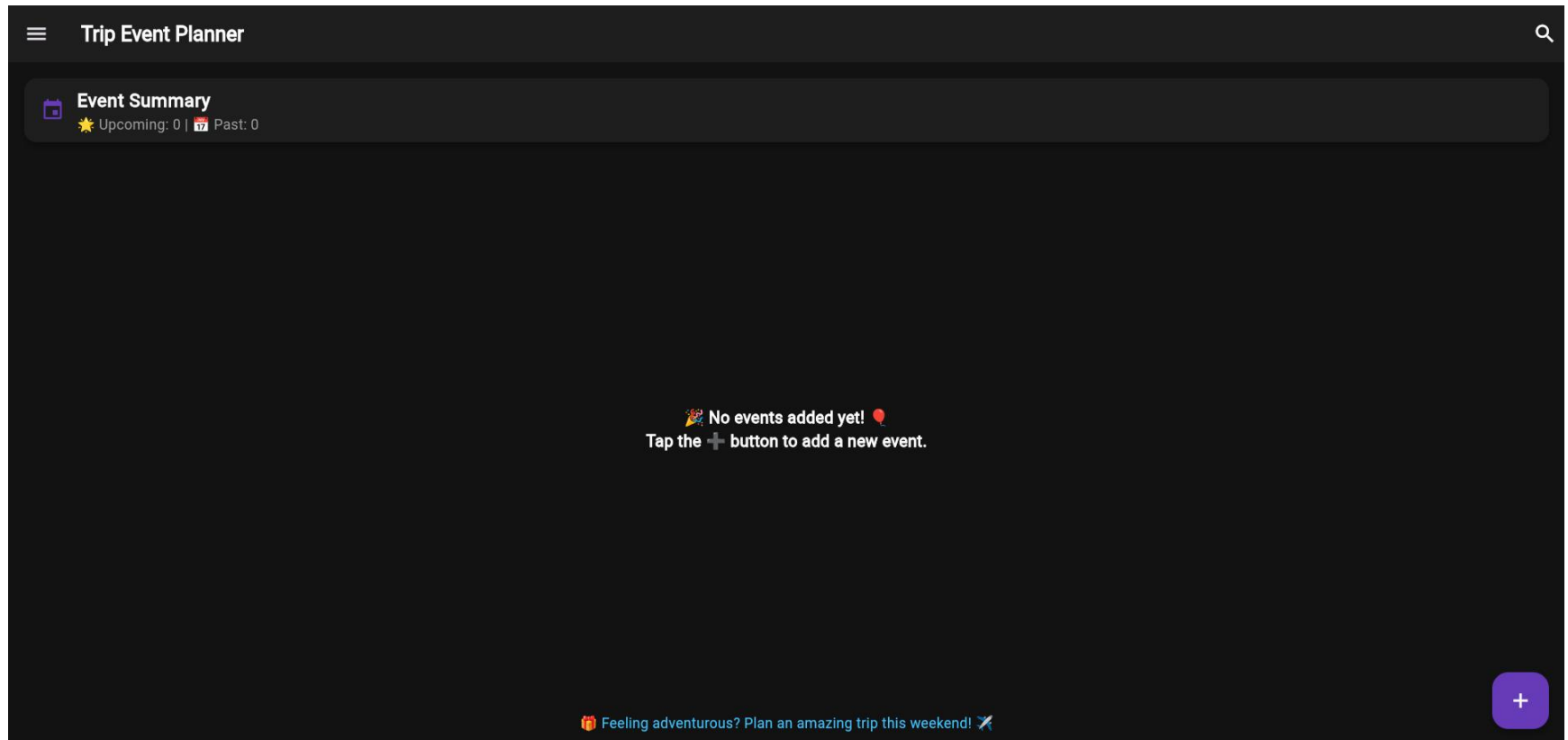
Firebase Integration

- • Firebase Authentication (Google, Email/Password)
- • Firestore Database for real-time updates
- • Firebase Cloud Messaging for Notifications

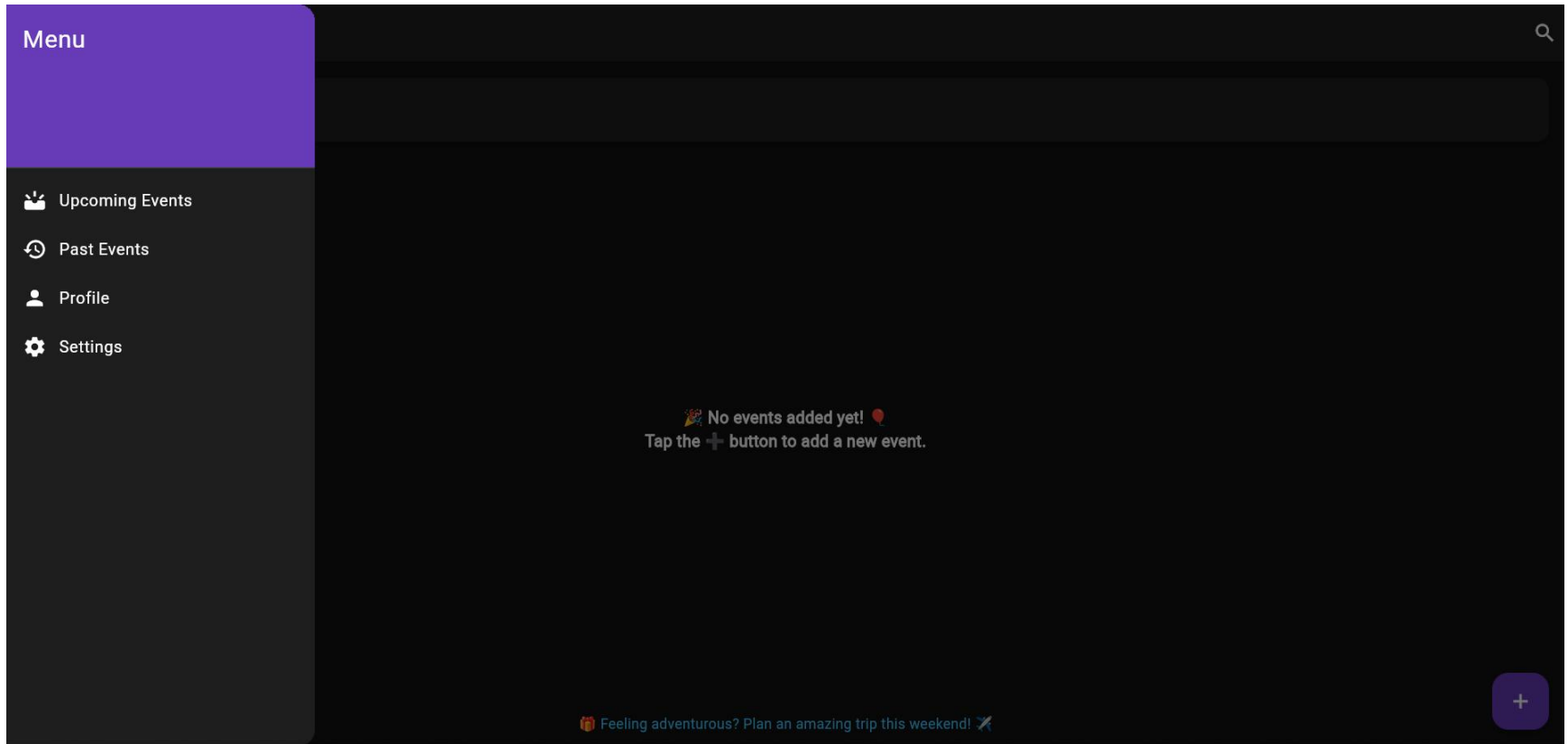
Screenshots & Demo

- • Application screenshots demonstrating key functionalities
- • UI Design Showcase
- • Working Demo of Core Features

Home Screen - Displays the event summary and an empty state message. A floating action button allows users to add new events.



Navigation Drawer – Provides quick access to key sections like Upcoming Events, Past Events, Profile, and Settings. Features a clean design with icons for easy navigation.



Profile Screen – Allows users to view and edit their name and email. A "Save Changes" button enables updating profile details.

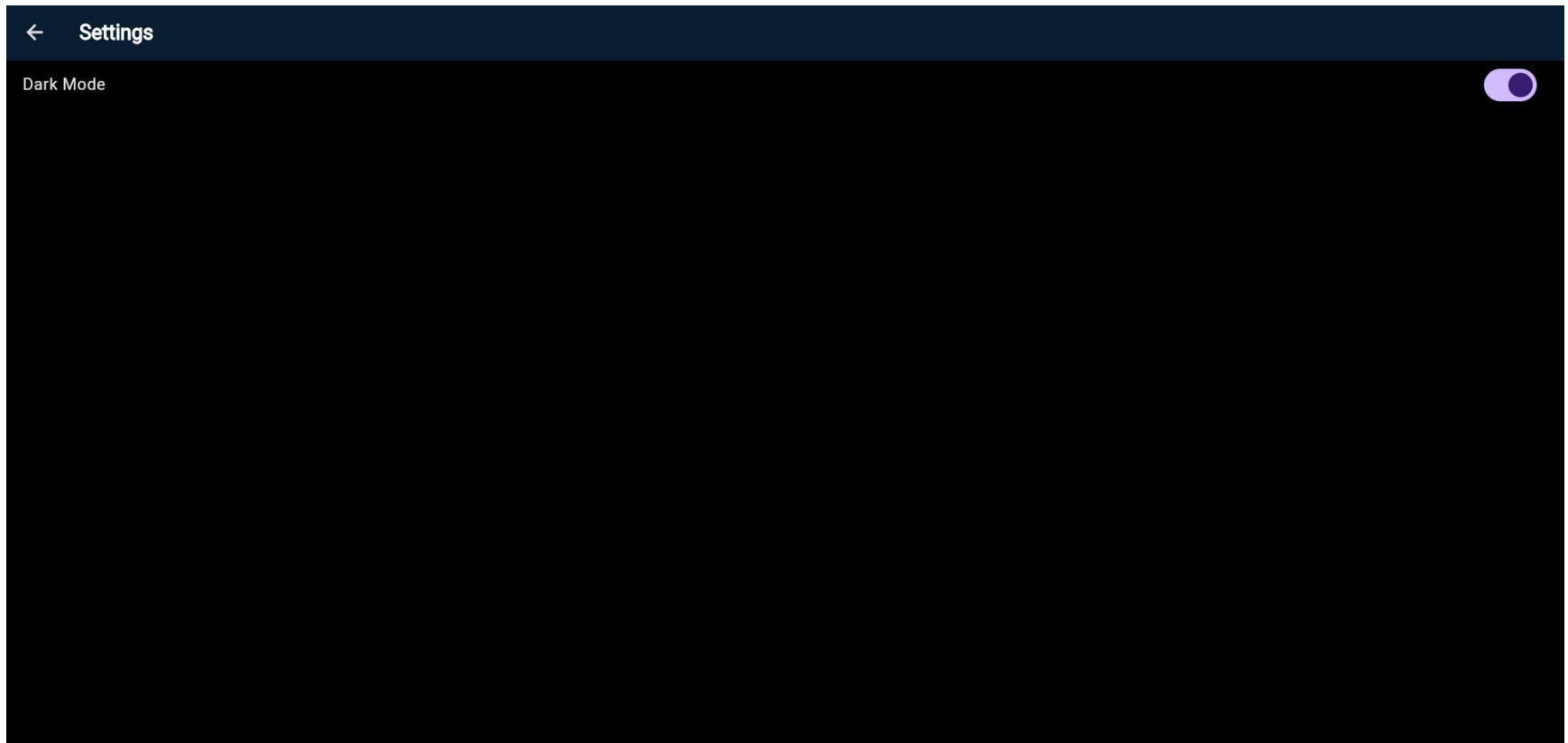
← Profile

Name
John Doe


Email
john.doe@example.com

Save Changes

Settings Screen – Allows users to toggle Dark Mode on or off for a personalized theme preference.



Add New Event Screen – Allows users to create an event by entering a title, description, selecting a category, and picking a date. The interface follows a dark-themed design with a structured layout.

 Add New Event

Create Your Event 🎉

Event Title

Description

Category

Personal

Date:

Pick Date

Add Event

This screen shows the event creation interface with a date picker open. The user is scheduling a Conference for a Paper Presentation under the Work category, selecting March 28, 2025 as the event date. The UI maintains a dark theme with a structured layout for user inputs.

The screenshot displays a dark-themed mobile application interface for creating a new event. At the top, a header bar contains a back arrow and the text "Add New Event". Below this, the form is organized into sections. The "Event Title" section has a text input field containing "CONFERENCE". The "Description" section has a text input field containing "PAPER PRESENTATION". The "Category" section has a dropdown menu with "Work" selected. A "Date:" label is positioned to the left of the date picker. The date picker is a modal overlay showing a calendar for March 2025. The date "Fri, Mar 28" is highlighted in a purple circle. The date picker also includes a "Select date" label, a "March 2025" header with navigation arrows, a grid of dates, and "Cancel" and "OK" buttons. At the bottom of the form, there is a purple "Add Event" button and a blue "Pick Date" button.

← Add New Event

Event Title
CONFERENCE

Description
PAPER PRESENTATION

Category
Work

Date:

Select date

March 2025

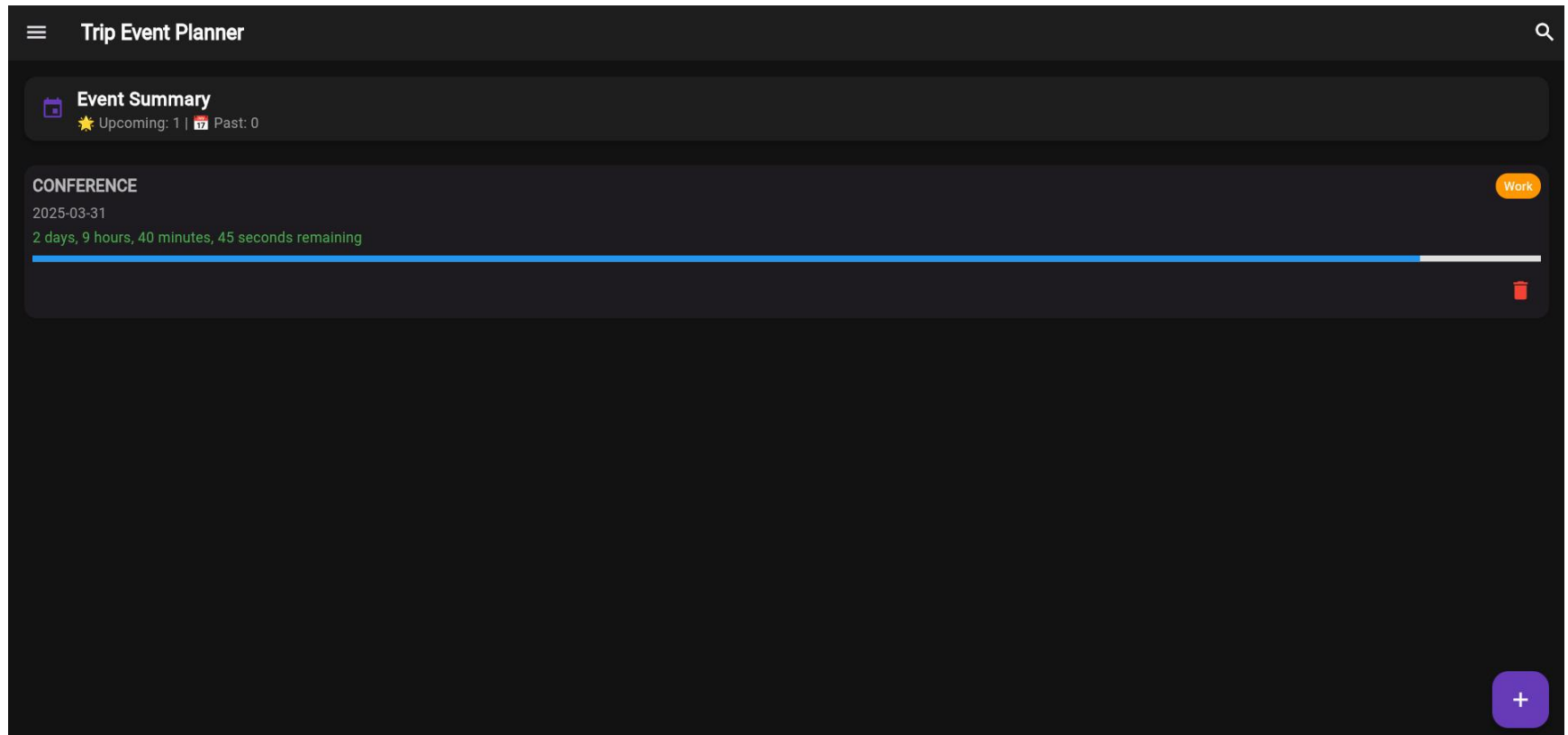
Fri, Mar 28

Cancel OK

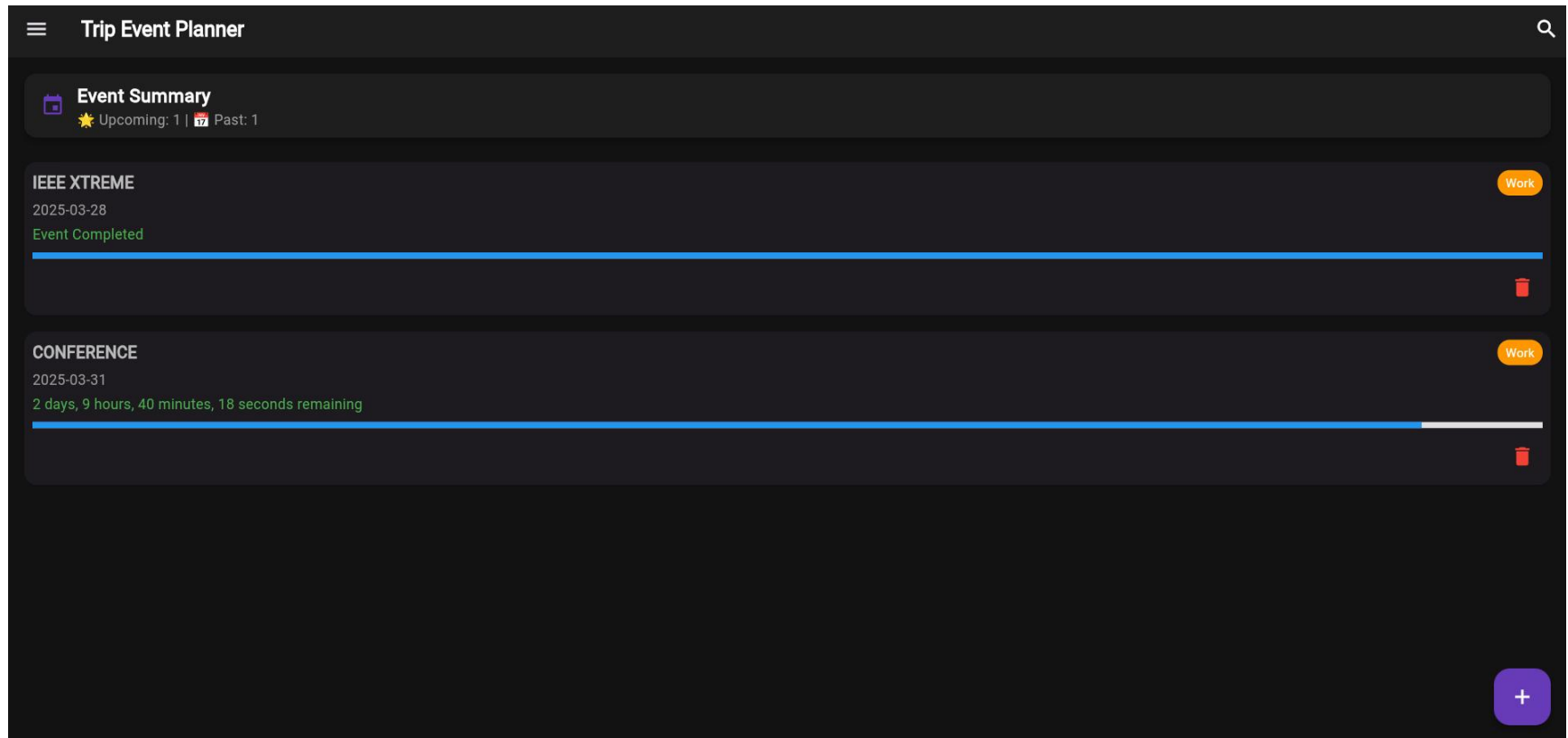
Add Event

Pick Date

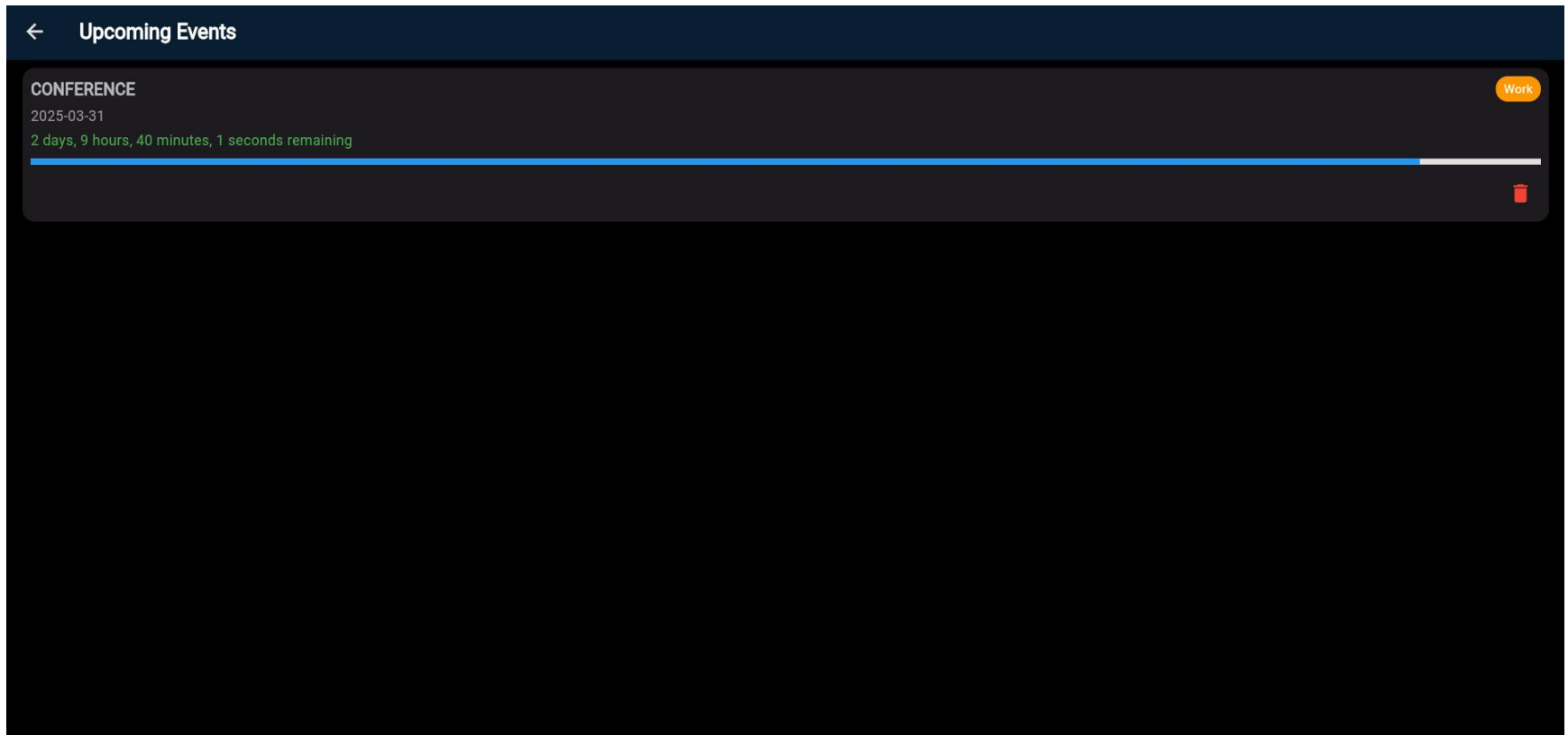
This screen shows the Trip Event Planner app displaying an Event Summary. It lists an upcoming Conference scheduled for March 31, 2025, categorized under Work. A countdown timer indicates 2 days, 9 hours, 40 minutes, and 45 seconds remaining. A progress bar visually represents the event's proximity, and a trash icon is available for deletion. The UI maintains a dark theme with well-structured elements.



The Trip Event Planner app displays a summary of events, showing one completed event (IEEE Xtreme) and one upcoming event (Conference) with a countdown timer. Each event has a progress bar, category tag (Work), and a delete option.



The Upcoming Events page in the Trip Event Planner app lists all scheduled events with their respective countdown timers. Each event card displays the event name, date, time remaining, category tag, progress bar, and a delete option.



Conclusion

- This Flutter project demonstrates the core capabilities of Flutter, including state management, API calls, Firebase, and localization, ensuring a comprehensive learning experience.