EventMate Mini-Project

Introduction

EventMate is a user-friendly event management system designed to streamline the creation, visibility, and management of events. The platform allows instructors to create events, which can be viewed and updated for students and other instructors. With features such as user authentication (including Google login), event creation, and profile management, EventMate is a comprehensive solution for event coordination.

Purpose

The purpose of EventMate is to provide a centralized platform for event management, ensuring seamless communication and efficient coordination among all participants. This project bridges the gap between event organizers and participants, making the process efficient and effective.

Key Features

- **User Authentication**: Secure login functionality, including Google login.

- **Event Creation**: Easy-to-use interface for creating and managing events.

- **Profile Management**: Personalized profiles for users to manage their information.

- **Real-Time Notifications**: Updates on upcoming events to keep users informed.

- **Cross-Platform Availability**: Optimized for various devices and operating systems.

Setup and Installation

System Requirements

To use EventMate effectively, ensure your system meets the following requirements:

- An operating system such as Windows, macOS, or Linux.

- Flutter SDK version 3.0 or higher installed.

- Dart version 2.17 or above configured.

- Adequate storage space and memory for smooth performance.

Installation Overview

Setting up EventMate involves configuring your system with the Flutter SDK and Dart, installing dependencies listed in the pubspec.yaml file, and running the application on your preferred device or emulator. Users are advised to follow the detailed guide provided in the project's README file.

Features

User Authentication

EventMate offers a secure and seamless login experience, allowing users to authenticate using either traditional credentials or Google accounts. The logout functionality ensures session security.

Event Creation

Instructors can quickly create events by specifying details like the event title, date, and description. The system ensures that all participants are notified of the newly created events.

Profile Management

Users have access to a dedicated profile page where they can:

- View personal information.

- Update details such as their name, email, and preferences.

- Customize settings for event notifications.

Real-Time Notifications

The platform includes a robust notification system to ensure that users are promptly informed about new and upcoming events. Notifications are designed to be non-intrusive yet highly effective.

Cross-Platform Support

Built with Flutter, EventMate is designed to work seamlessly across various platforms, including mobile devices and desktops. The user experience is consistent and optimized regardless of the device used.

User Guide

Getting Started

- Launch the application on your device.

- Log in using your credentials or opt for Google login.

- Navigate the intuitive dashboard to explore available features.

Event Management

- Use the "Create Event" feature to add new events.

- Provide necessary details such as event title, date, and description.

- Save the event to notify all participants automatically.

Profile Customization

- Access the profile page to review and update personal information.

- Enable or disable notifications as per your preferences.

- Save changes to apply updates instantly.

Technical Details

Architecture

EventMate follows a modular architecture pattern to separate concerns, ensuring that each component of the application is scalable and easy to maintain. The architecture is designed to support future enhancements with minimal disruption.
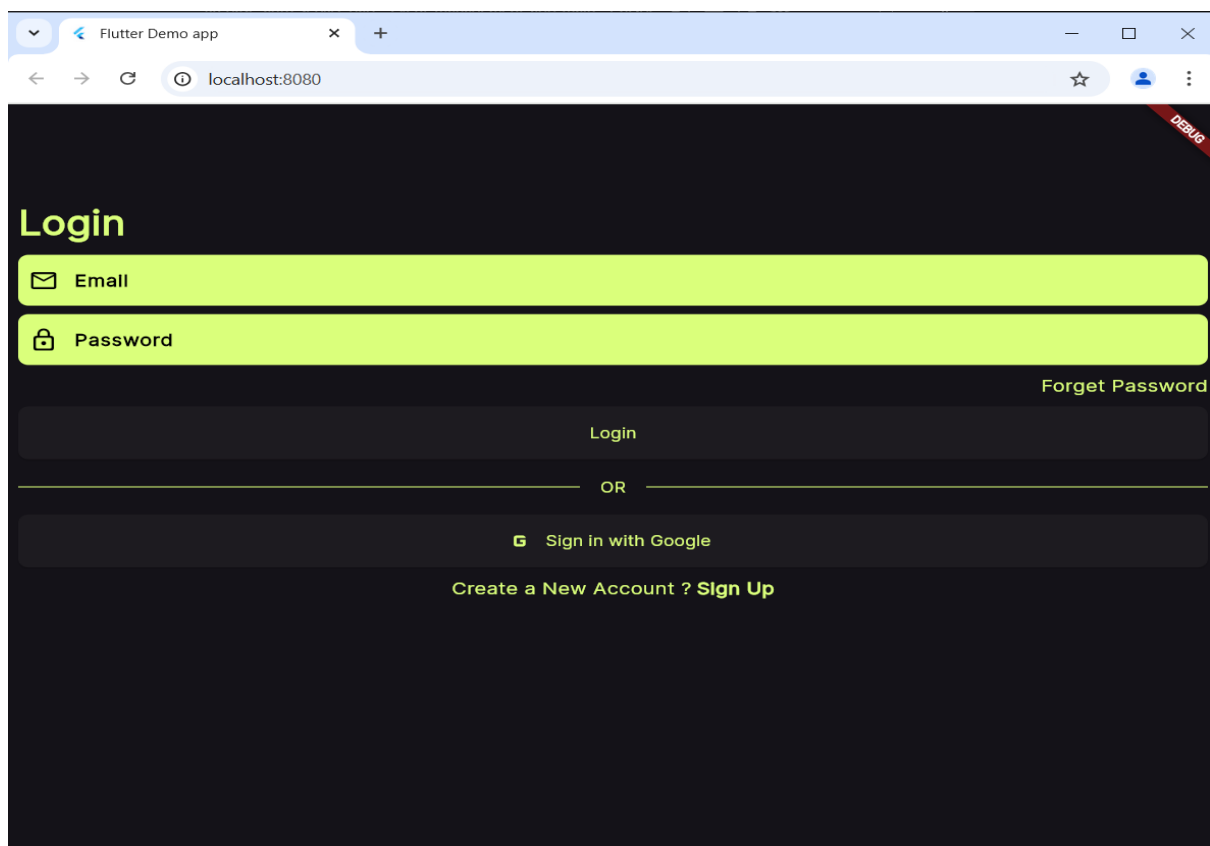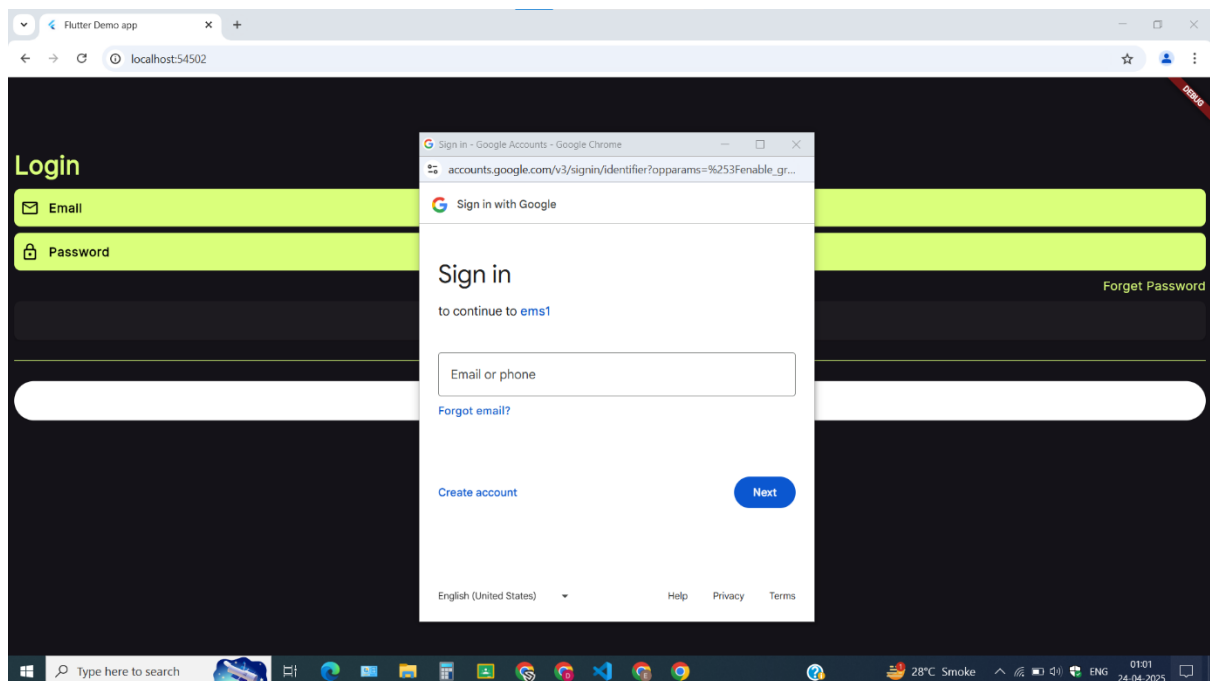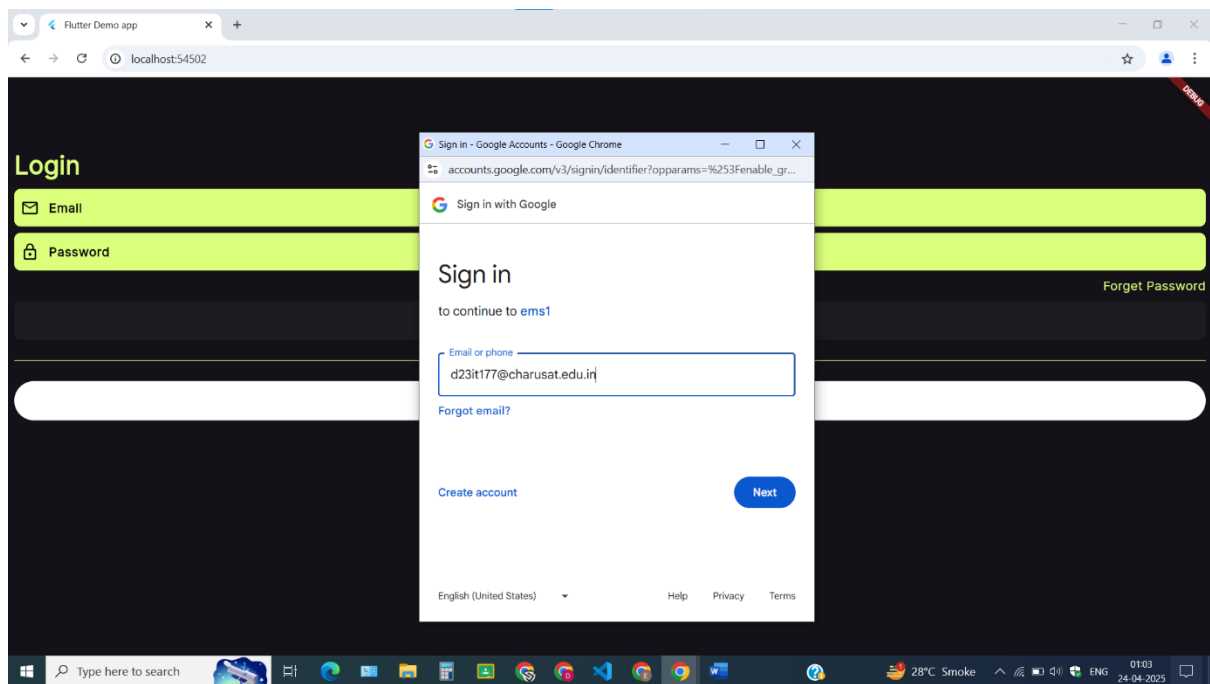
Figure 1 Login Page

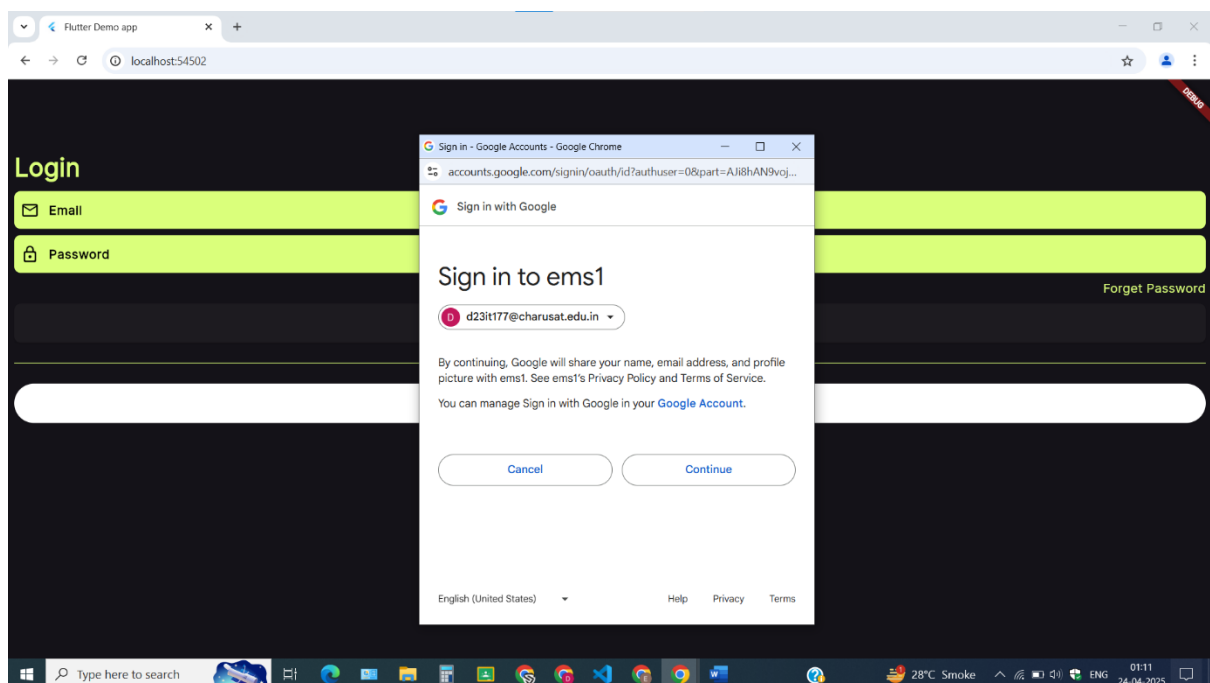*Figure 2 Google API*
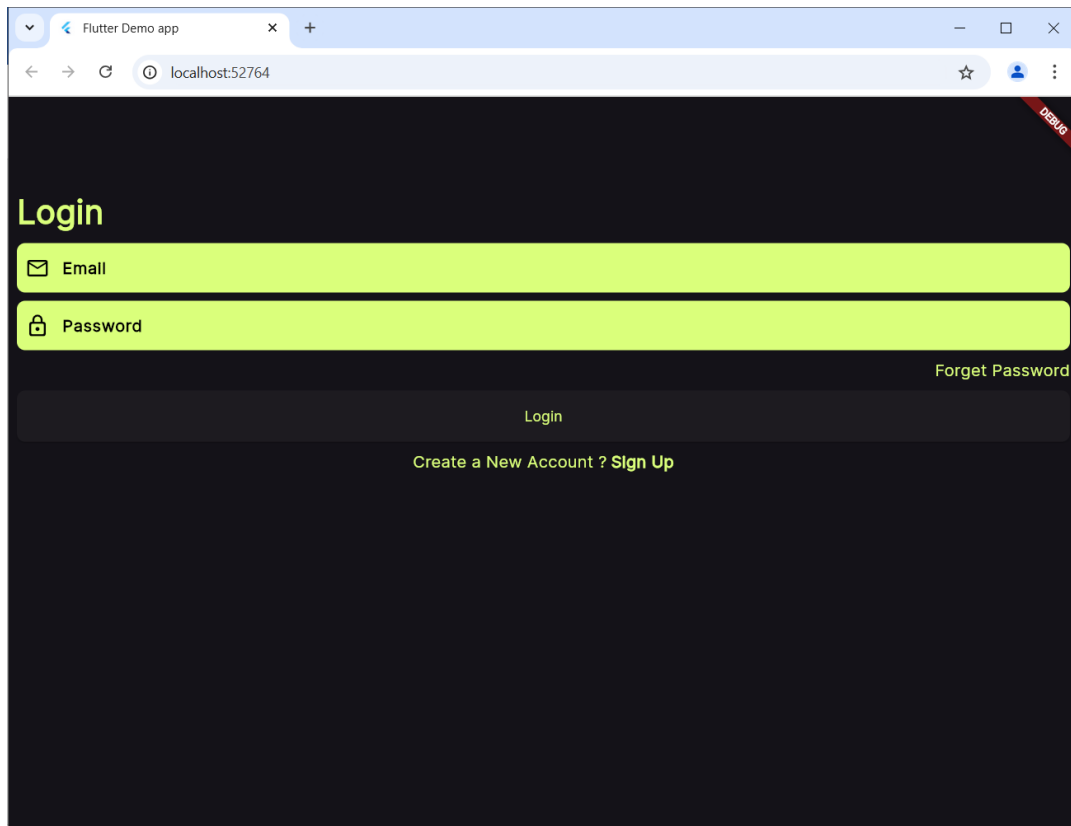
Figure 3 Login with google

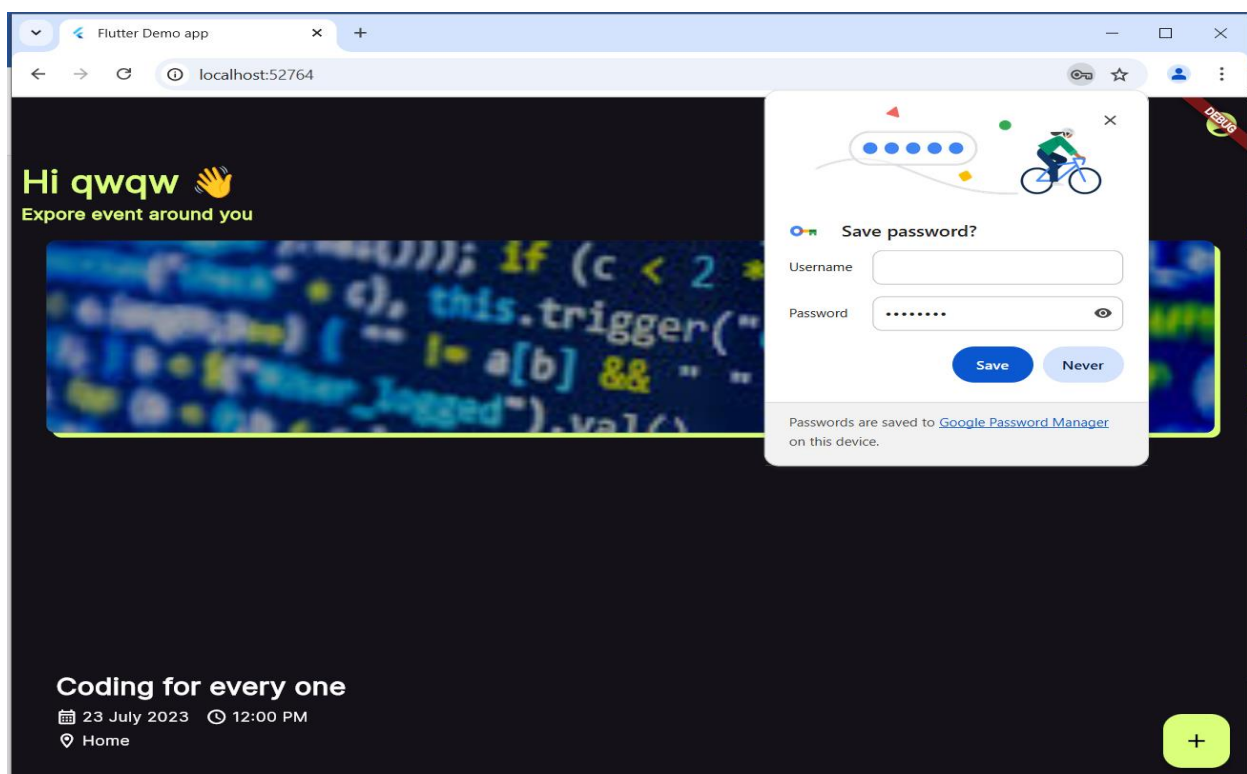*Figure 4 confirming*

Figure 5 Manual login
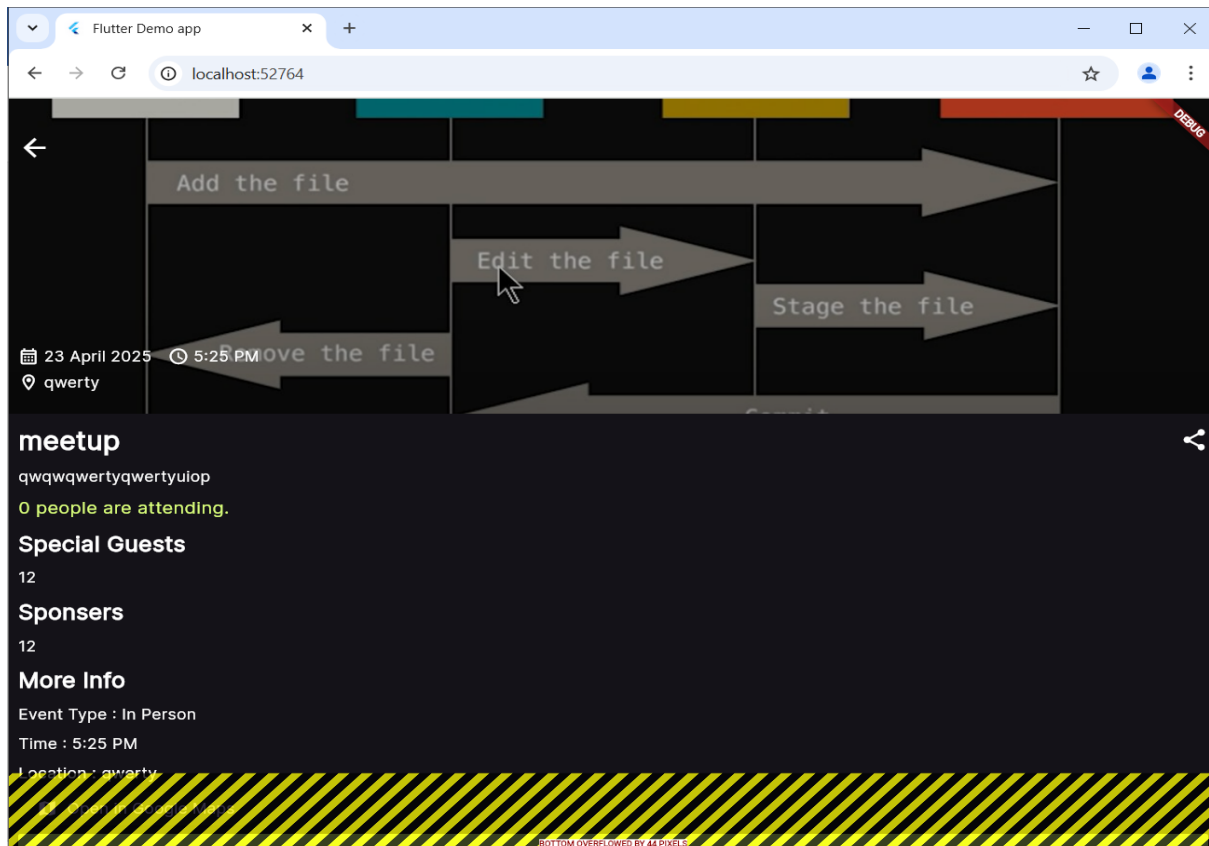

Figure 6 Logged in successfully!
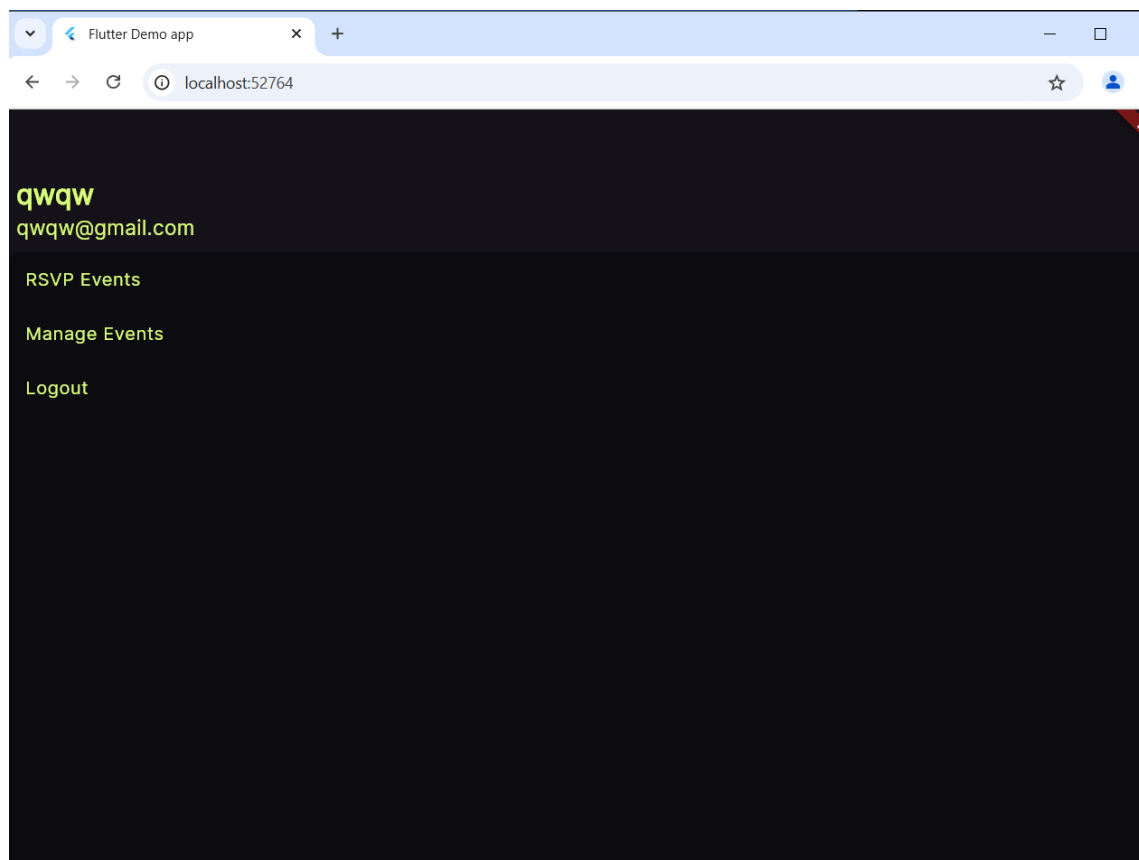
Figure 7 Created an event

Figure 8 Profile page

Technologies Used

- **Framework**: Flutter

- **Programming Language**: Dart

- **Authentication**: Google OAuth 2.0

APIs and Libraries

The project leverages several APIs and libraries to deliver a feature-rich experience, including:

- Provider for state management.

- Flutter Secure Storage for managing sensitive data.

- HTTP for API interactions.

- Google Sign-In for authentication.

Conclusion

EventMate is a robust and efficient platform for event management, enabling seamless communication and coordination. Its intuitive design and powerful features make it an essential tool for both educational and professional environments. Planned enhancements include real-time chat integration, advanced analytics, and support for additional languages to cater to a global audience.