Teacher–Student–Admin Slot Booking System

Comprehensive Project Documentation

👩‍🎓 Student Information

Name: Mardani Keerthi Vyshnavi

Course: B.Tech, 3rd Year

Department: Computer Science & Engineering

Institution: [Your College Name]

📘 Project Overview

The **Teacher–Student–Admin Slot Booking System** is a web-based platform that simplifies appointment scheduling between students and teachers. It provides secure authentication, role-based access, and a real-time interface powered by **Firebase**.

🎯 Objectives

- Automate slot booking between students and teachers.
- Ensure real-time updates using Firebase.
- Enable admin control for system monitoring.
- Provide a user-friendly and responsive UI.

🧩 Roles and Functionalities

👨‍🎓 Student

- View available teachers and slots.
- Book and cancel appointments.

👩‍🏫 Teacher

- Create and manage available time slots.
- Approve or reject bookings.

👨‍💼 Admin

- Monitor and manage users.
- Access system analytics and database overview.

⚙️ Technologies Used

- **Frontend:** HTML5, CSS3, JavaScript
- **Backend:** Firebase Firestore
- **Authentication:** Firebase Auth
- **Hosting:** Firebase Hosting
- **Tools:** Visual Studio Code, GitHub

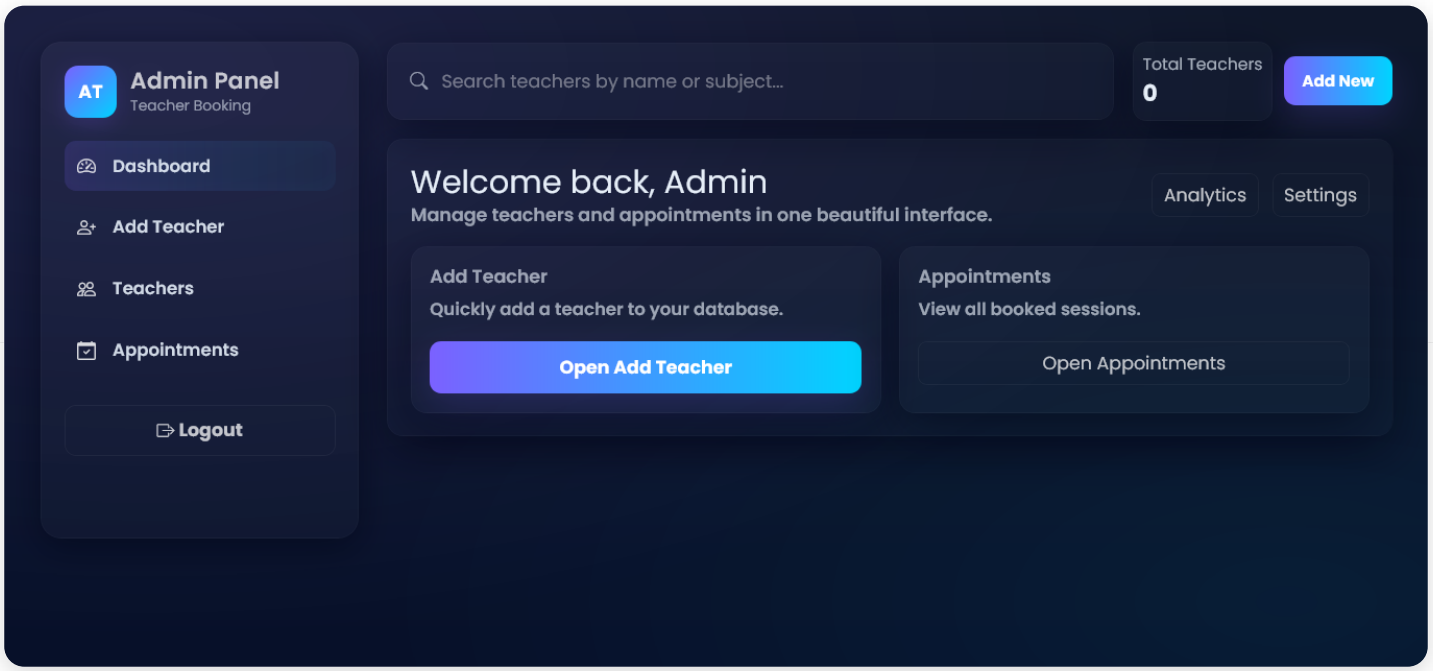
🗄️ Firebase Configuration (Example)

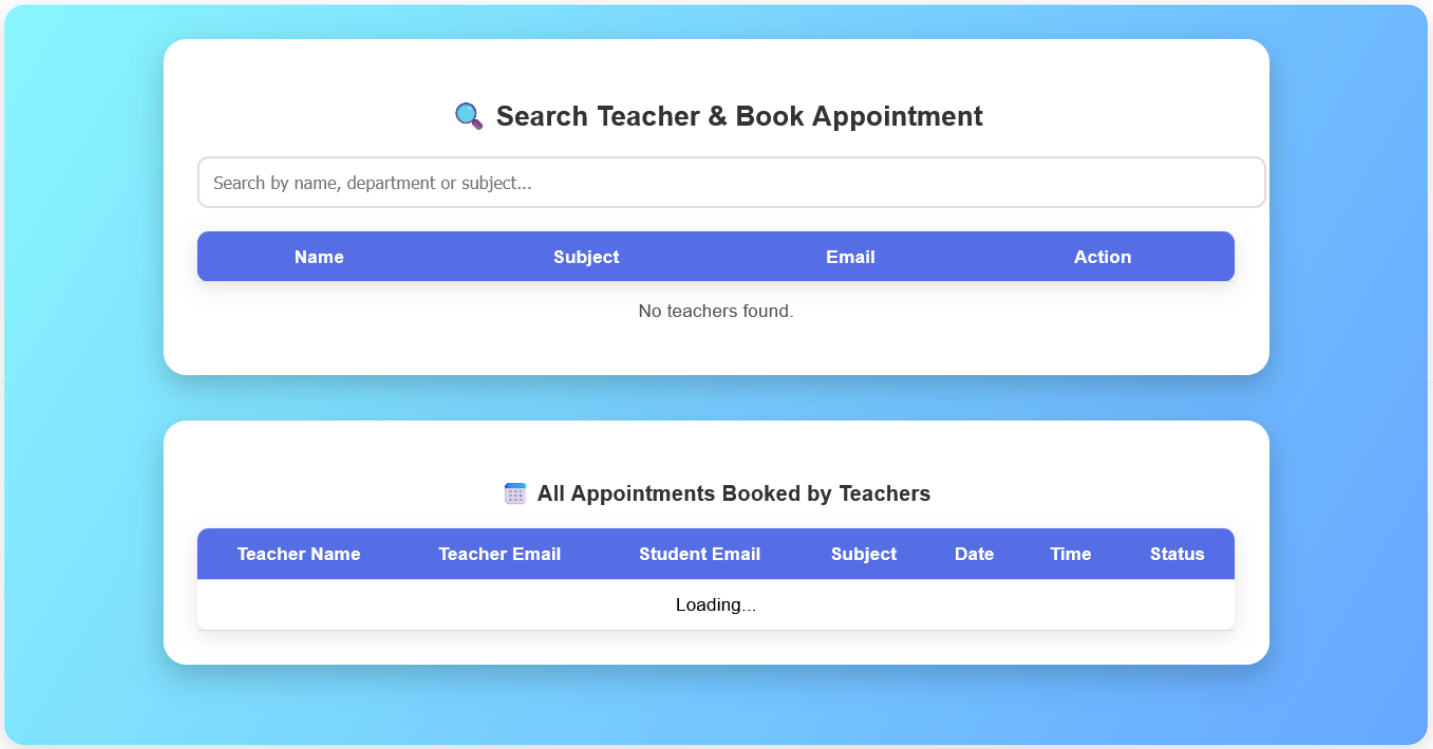
```
const firebaseConfig = {
  apiKey: "AIzaSy...YOUR_KEY...",
  authDomain: "stu-teach-booking-appointment.firebaseapp.com",
  projectId: "stu-teach-booking-appointment",
  storageBucket: "stu-teach-booking-appointment.appspot.com",
```

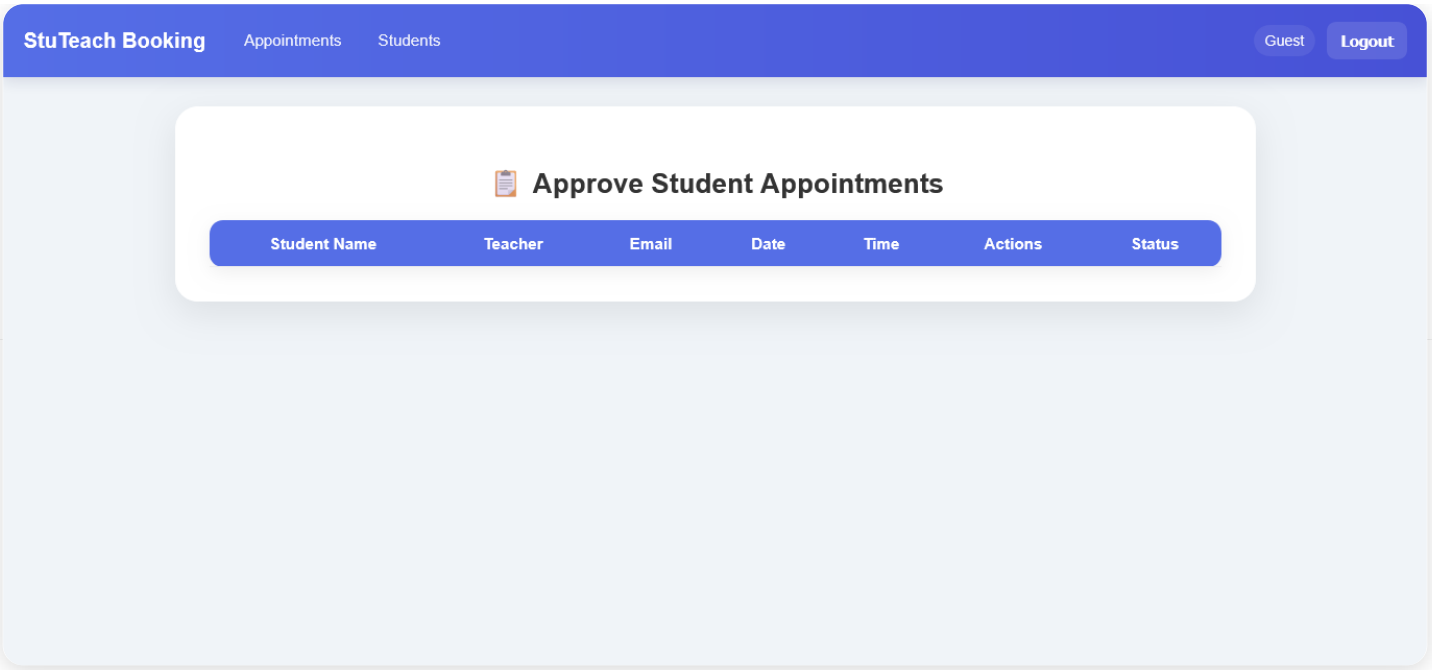
```
  messagingSenderId: "911059619353",
  appId: "1:911059619353:web:YOUR_APP_ID"
};
```

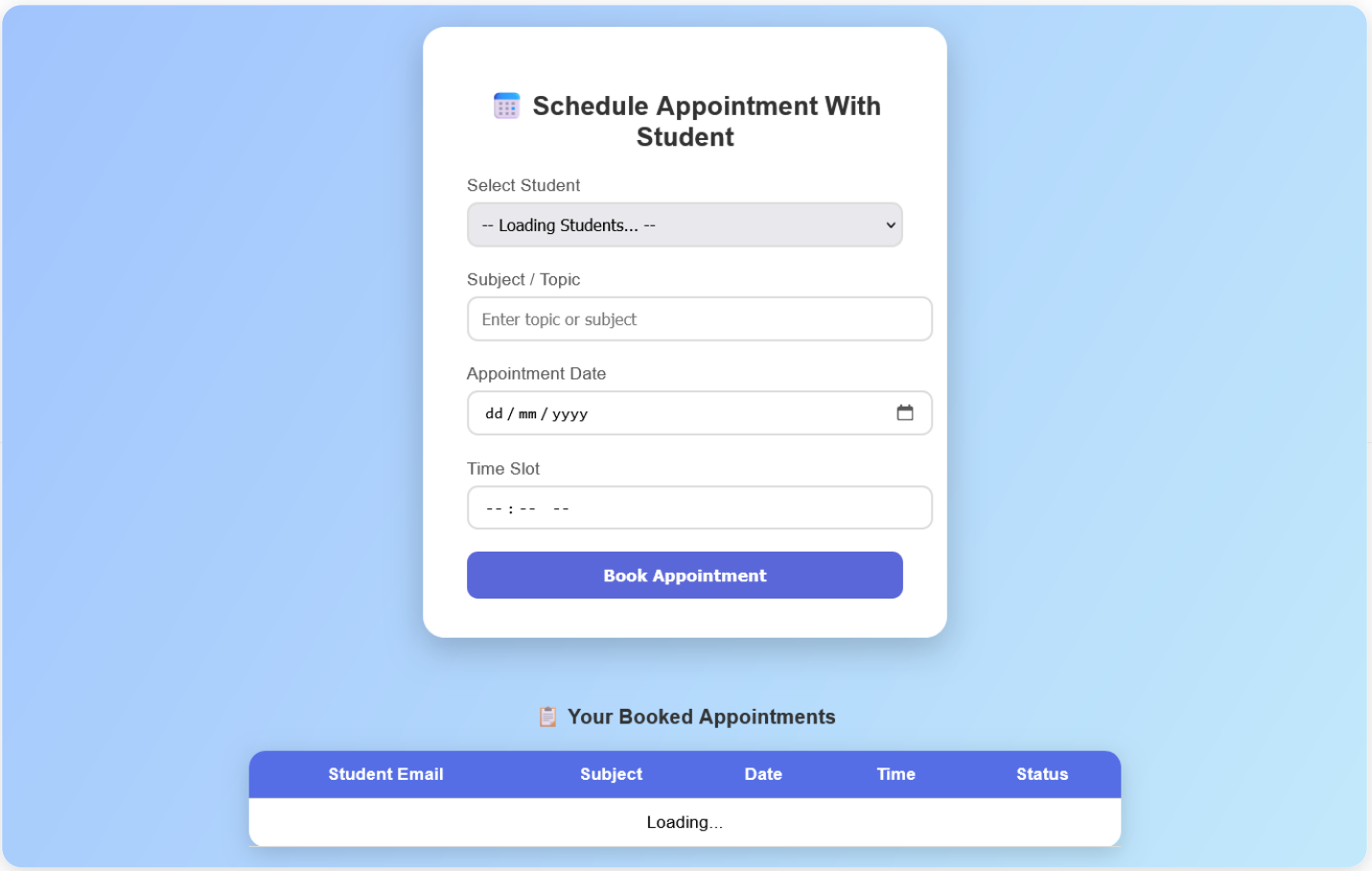
🖼️ UI Screenshots

Some of the main pages designed for this project:









🚀 Future Enhancements

- Integration with Google Calendar for reminders.
- Email and push notifications.
- Admin analytics dashboard.

© 2025 Mardani Keerthi Vyshnavi | Department of CSE