

Teacher–Student–Admin Slot Booking System

Comprehensive Project Documentation



Student Information

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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)

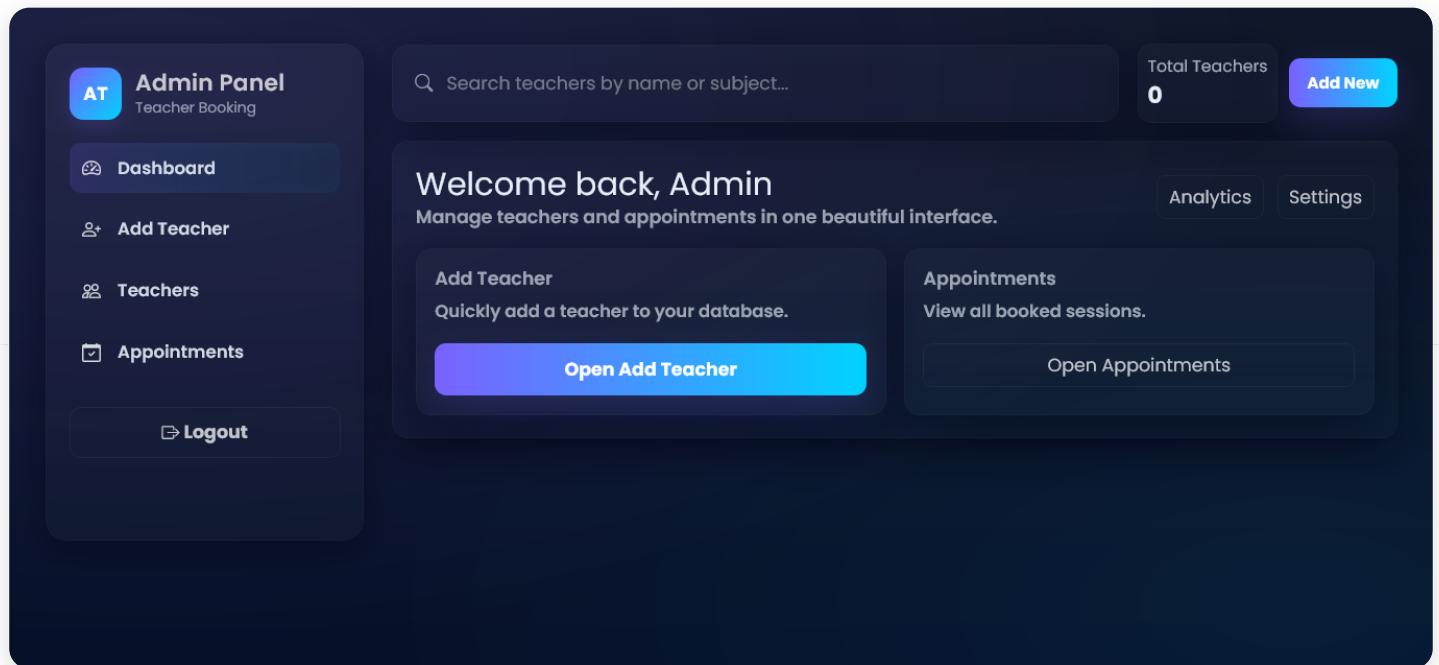
```
const firebaseConfig = {
  apiKey: "AIzaSy...YOUR_KEY...",
  authDomain: "stu-teach-booking-appointment.firebaseio.com",
  projectId: "stu-teach-booking-appointment",
  storageBucket: "stu-teach-booking-appointment.appspot.com",
```

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

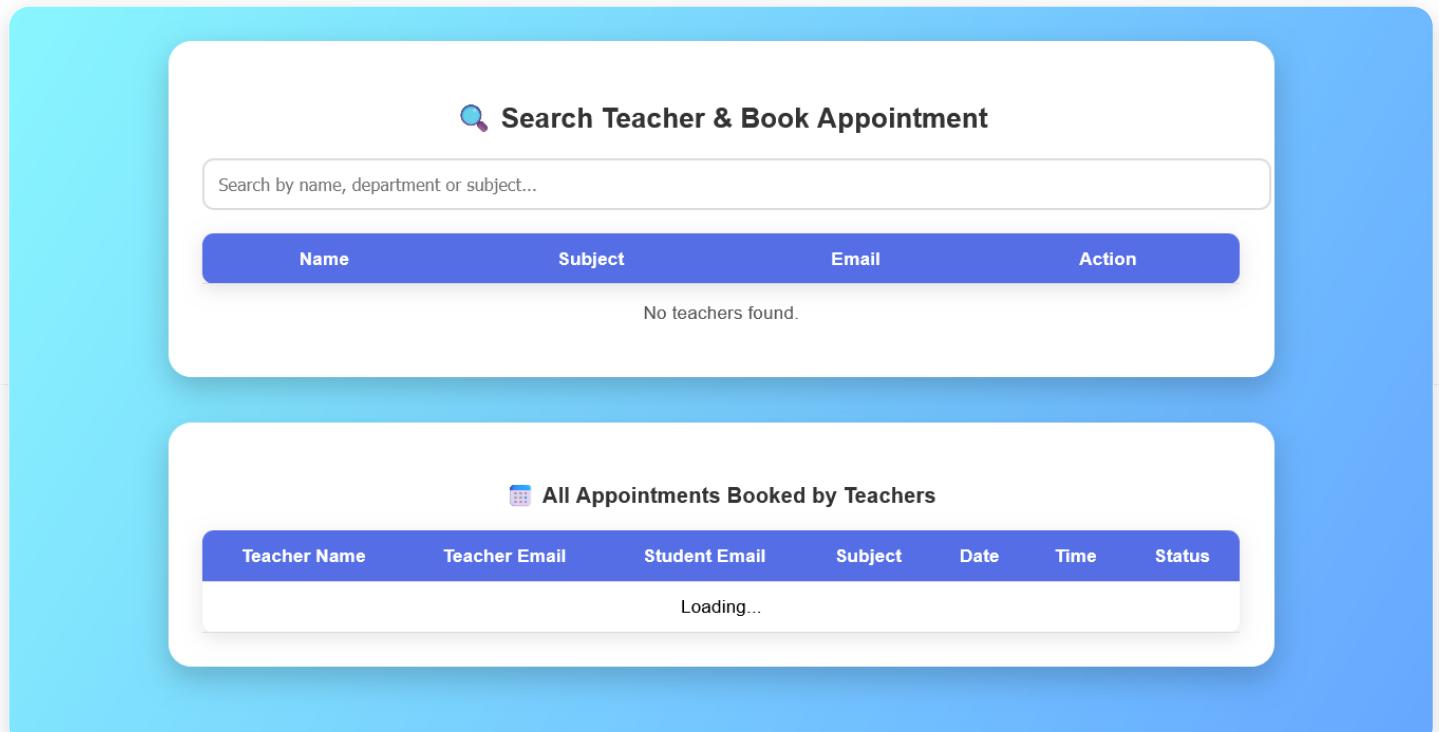


UI Screenshots

Some of the main pages designed for this project:



The Admin Panel dashboard features a dark blue header with the title "Admin Panel" and "Teacher Booking". On the left, a sidebar contains icons for "Dashboard", "Add Teacher", "Teachers", and "Appointments", along with a "Logout" button. The main area displays a search bar, a total teacher count of 0, and an "Add New" button. A welcome message "Welcome back, Admin" is followed by the subtext "Manage teachers and appointments in one beautiful interface.". Below this are two cards: "Add Teacher" (with a "Quickly add a teacher to your database." note and an "Open Add Teacher" button) and "Appointments" (with a "View all booked sessions." note and an "Open Appointments" button). Navigation links for "Analytics" and "Settings" are also present.



The "Search Teacher & Book Appointment" page has a light blue header. It includes a search bar with the placeholder "Search by name, department or subject...". Below it is a table with columns: Name, Subject, Email, and Action. A message "No teachers found." is displayed. The "Action" column contains a blue button.

The "All Appointments Booked by Teachers" page has a light blue header. It shows a table with columns: Teacher Name, Teacher Email, Student Email, Subject, Date, Time, and Status. A message "Loading..." is displayed at the bottom of the table.

📋 Approve Student Appointments

Student Name	Teacher	Email	Date	Time	Actions	Status
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📅 Schedule Appointment With Student

Select Student

-- Loading Students... --

Subject / Topic

Enter topic or subject

Appointment Date

dd / mm / yyyy



Time Slot

-- : -- : --

Book Appointment

📋 Your Booked Appointments

Student Email	Subject	Date	Time	Status
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Loading...



Future Enhancements

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

