

HOUSE RENT APP USING MERN

Introduction :

- **Project Title: House Rent Application**
- **Team Members:**
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Project Overview :

- **Purpose:** To create a platform for listing and renting houses where users can search, book, and manage properties.
- **Features:**
 - User authentication (login/signup).
 - Property listing with search and filter options.
 - Booking and payment integration.
 - Admin dashboard for managing properties and bookings.

Architecture :

- **Frontend:** Built with React.js for an interactive and responsive user interface.
- **Backend:** Node.js with Express.js for managing APIs and server-side logic.

- **Database:** MongoDB for storing user data, property details, and bookings.

Setup Instructions :

- **Prerequisites:**

1. Node.js
2. MongoDB
3. npm or yarn package manager

- **Installation:**

Navigate to folders:

- Frontend
- Backend

- **Install dependencies:**

Run `npm install` in both .

- **Set environment variables:**

Backend: Configure `.env` for MongoDB URI, JWT secret, etc.

Folder Structure :

- **Client:** Details for React frontend, including components, routes, and services.
- **Server:** Explanation of Node.js backend with routes, controllers, and middleware.

Running the Application :

- **Frontend:** Run `npm start` in the directory.
- **Backend:** Run `npm start` or use `nodemon index.js` in the directory.

API Documentation :

- Document key endpoints like:
 - **POST /api/auth/login** - User login.
 - **GET /api/properties** - Fetch property listings.
 - **POST /api/booking** - Book a property.

Authentication :

- Use JWT for secure user authentication.
- Include login, signup, and role-based access (e.g., admin and user).

User Interface

- Homepage
- Property listing page
- Booking page
- Admin dashboard