HouseHunt: Finding Your Perfect Rental Home

Category: Full Stack Development

Skills Required: HTML, CSS, JavaScript, Bootstrap, React.js, Node.js, MongoDB

Project Description:

A house rent app is typically a mobile or web application designed to help users find rental properties, apartments, or houses for rent. These apps often offer features to make the process of searching for and renting a property more convenient and efficient.

Key Features:

- **Property Listings:** Detailed descriptions, photos, rent amount, and location.
- **Search Filters:** Location, rent range, property type, amenities.
- **Contact Landlords:** Messaging or email capabilities within the app.

Scenario-Based Case Study: Renting an Apartment

- **User Registration:** Alice registers as a Renter.
- **Browsing Properties:** Alice logs in, views listings, and filters search.
- **Property Inquiry:** She sends a booking request for an apartment.
- **Booking Confirmation:** Owner approves the request.
- **Admin Approval:** Admin approves new owners like Bob.
- **Owner Management:** Bob adds/edits/deletes properties.
- **Platform Governance:** Admin ensures compliance and monitors activity.
- **Lease Agreement:** Alice and the owner finalize terms via messaging.
- **Move-in Process:** Alice completes the rental process successfully.

Technical Architecture

The HouseHunt app follows a client-server model:

Frontend:

- React.js + Bootstrap + Material UI for UI.
- Axios for HTTP requests.

Backend:

- Express.js for server-side logic.
- MongoDB for database operations.

This stack enables smooth real-time communication, efficient data handling, and a scalable platform.

Project Folder Structure

```
HouseHunt/
├── server/
│   ├── server.js
│   ├── models/
│   │   ├── User.js
│   │   ├── Property.js
│   │   └── Booking.js
│   └── routes/
│       ├── userRoutes.js
│       ├── propertyRoutes.js
│       └── bookingRoutes.js
├── client/
│   └── src/
│       ├── App.js
│       └── pages/
│           ├── Home.js
│           └── Register.js
```

Empathy Map: Understanding the User

Says	Thinks
"I want a place within budget."	"Will I find a safe and affordable home?"
"I need something near my work."	"I hope I can trust the property owner."

Does	Feels
Uses filters to search listings.	Overwhelmed by too many options.
Sends inquiry via app.	Relieved when booking is confirmed.

This map helps us build a user-friendly app that aligns with renters' real-life needs and emotions.