HouseHunt — Full-Stack House Rental App (MERN)

Project Overview

HouseHunt is a complete rental property management web application built using the MERN stack. It bridges the gap between renters, property owners, and admins by streamlining everything from browsing listings to real-time booking and property management.

Core Features

- - **Advanced Property Search:** Filter by location, price, property type, size, and amenities.
- - **Interactive Listings:** 360° virtual tours, high-quality images, and floor plans.
- - **Market Insights:** Neighborhood data, price trends, and investment potential.
- - **Property Alerts:** Notifications for new listings and price drops.
- - **User Roles:**

  - **Renter:** Browse properties and request bookings.

  - **Owner:** Add/edit/delete properties and manage bookings.

  - **Admin:** Approve users and monitor platform activity.

- - **Real-Time Communication:** Enables seamless renter-owner interactions.

Tech Stack

Backend

- - Node.js
- - Express.js
- - MongoDB + Mongoose
- - JWT (Authentication)
- - Multer (File Uploads)
- - Moment.js

Frontend

- - React.js
- - Material UI
- - Bootstrap
- - Ant Design
- - Axios

Folder Structure

househunt/

```
├── code/
│   ├── backend/    # Express + MongoDB API
│   └── frontend/   # React client UI
```

How to Run the Project Locally

1. Clone the Repository

git clone https://github.com/reethika9951/HouseHunt.git

cd HouseHunt/code

2. Backend Setup

cd backend

npm install

npm start

Runs on http://localhost:8001

3. Frontend Setup

cd ../frontend

npm install

npm start

Runs on http://localhost:3000

User Flow

Renter:
- - Register and login
- - Browse properties
- - Request a booking
- - View booking status

Owner:
- - Request approval from admin
- - Perform CRUD on properties
- - Update property status

Admin:

- - Approve owners
- - Monitor users and properties

Database Collections

- - `users`: Includes renters, owners, and admins
- - `properties`: Listing data
- - `bookings`: Track booking requests and statuses

Libraries and Tools

- - JWT & Bcrypt for authentication
- - Material UI, Ant Design, Bootstrap for UI
- - Axios for API communication
- - Multer for handling file uploads
- - Moment.js for time formatting

Milestones

1. **Setup:** Directory structure and tools installed.

2. **Backend Development:** API endpoints, DB models, authentication.

3. **Frontend Development:** UI components, dashboard, API integration.

4. **Database Configuration:** MongoDB schemas for user and property data.

5. **Integration:** Full-stack testing and functionality.

GitHub Repo

- - **GitHub Repo:** https://github.com/reethika9951/HouseHunt.git

Author

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