

HouseHunt Project

1. Introduction

Project Title: Househunt: finding your perfect rental home

TEAM MEMBERS	
TEAM ID	LTVIP2025TMID57110
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2. Project Overview

Purpose: The HouseHunt project is designed to provide a modern and efficient platform for property rentals, utilizing the MERN stack (MongoDB, Express.js, React.js, Node.js).

Goals:

- Seamless user experience for renters and property owners.
- Intuitive dashboard for admins to manage listings and users.
- Secure and scalable infrastructure to support real-world needs.

Features:

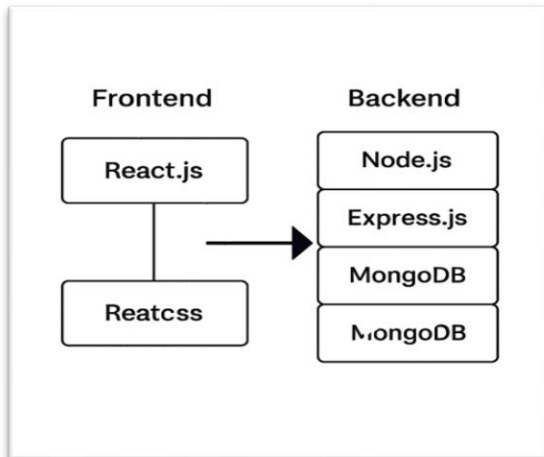
- Comprehensive property listings
- User authentication and profile management
- Booking management for renters and owners
- Admin dashboard for managing properties and users

3. Architecture

Frontend: Built using React.js for a responsive and interactive user interface.

Backend: Developed with Node.js and Express.js to handle API requests and business logic.

Database: Utilizes MongoDB for data storage, with Mongoose for schema management.



Architecture Diagram

4. Setup Instructions

Prerequisites:

- Node.js
- npm
- MongoDB
- Vite
- **Express.js Folder Structure** :househunt-project/

```
househunt-project/
├── .git/
│   ├── backend/
│   ├── config/
│   ├── controllers/
│   ├── middewares/
│   ├── routes/
│   └── package.json
├── frentend/
│   ├── public/
│   ├── src/
│   └── package.json
├── README.md
└── .gitignore
```

5. Running the Application

Frontend:

Command: npm run dev

Access URL: http://localhost:3000

Backend:

Command: npm start

Access URL: http://localhost:5000

6. API Documentation

Example Endpoints:

- User Authentication APIs
- Property API
- Booking Management API
- Admin Control API

7. Authentication

Method Used: JSON Web Tokens (JWT)

How it Works:

- Users register and log in to receive JWT tokens.
- Protected routes utilize authentication middleware.
- User roles (Admin, User) are verified at the API level.

8. User Interface

Screens Included:

- Landing Page
- Property Listings
- User Authentication
- User Profile Management
- Admin Dashboard

User Interface Mockups:

[Placeholder for Image]

9. Testing

Testing Tools:

- Postman for API testing
- Manual frontend testing
- Basic unit tests on backend routes (optional)

10. Demo

Demo Video:

HouseHunt Demo Video

LINK :-- <https://drive.google.com/file/d/1jkoN1CcpqN-9LqvUCJ4rKizpw-dWleYi/view?usp=drivesdk>

11. Known Issues

- Limited payment gateway features
- Minimal frontend form validation
- Error handling for API responses can be improved

12. Future Enhancements

- Mobile App Development
- Two-Factor Authentication (2FA)
- Live Chat Support / Chatbot
- Advanced Order Tracking System
- Admin Analytics Dashboard
- Seller Onboarding & Marketplace Support
- AI-Powered Recommendations

Conclusion

This documentation provides a comprehensive overview of the HouseHunt project, including its structure, features, and future enhancements. For any further questions or contributions, please refer to the repository or contact the team members.