PROJECT REPORT

Project Title:

HOUSE HUNT

Team ID: LTVIP2025TMID58587

Submitted By:

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SmartInternz – Web Development Virtual Internship Program 2025

HOUSEHUNT PROJECT DOCUMENTATION

1. INTRODUCTION

1.1 Project Overview

HouseHunt is a web application designed to simplify the process of finding rental properties. The platform connects property owners with potential renters through a centralized, easy-to-use interface. It supports property listing, booking requests, admin approvals, and user management.

Purpose

The main purpose of this project is to streamline the rental process, reduce manual communication, and provide transparency between renters, owners, and the admin.

2. IDEATION PHASE

2.1 Problem Statement

Finding rental properties is time-consuming and often lacks transparency. Renters face difficulty in accessing verified listings, while owners struggle with managing multiple inquiries.

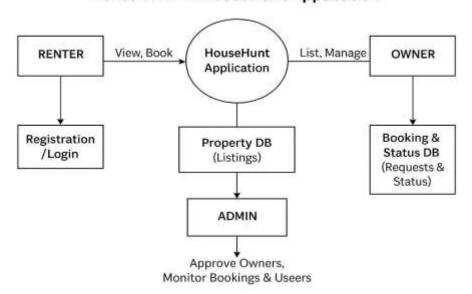
2.2REQUIREMENT ANALYSIS

Solution Requirements

- Secure user authentication (Owner, Renter, Admin)
- Property listing and booking functionality
- Admin approval and user monitoring
- Status updates and booking history

2.3Data Flow Diagram (DFD)

Level 1 DFD - HouseHunt Application



- User → Register/Login → Dashboard
- Owner → List Property → Manage Bookings
- Renter → View Properties → Book
- Admin → Approve Owners → Monitor Activity

3. TECHNOLOGY STACK

- Frontend: React.js, Bootstrap, MDB UI Kit, Material UI, Axios
- Backend: Node.js, Express.js
- Database: MongoDB (Mongoose ODM)
- Authentication: JWT (JSON Web Tokens)
- Others: Multer (file upload), Moment.js, CORS

4. PROJECT DESIGN

4.1 Problem-Solution Fit

The platform bridges the gap between renters and owners by offering a centralized, admin-monitored interface, reducing fraud and miscommunication.

4.2 Proposed Solution

A full-stack application with role-based access: renters can browse and book, owners can list and manage, and admins can validate and monitor.

4.3 Solution Architecture

- Frontend: SPA (Single Page Application) with React Router
- Backend: RESTful APIs with JWT middleware
- Database: MongoDB models for Users, Properties, and Bookings

5. PROJECT PLANNING & SCHEDULING

5.1 Project Planning

- Week 1: Requirement gathering and UI wireframes
- Week 2: Frontend and backend setup
- Week 3: Feature development and integration
- Week 4: Testing, bug fixes, deployment

6. FUNCTIONAL AND PERFORMANCE TESTING

6.1 Functional Testing

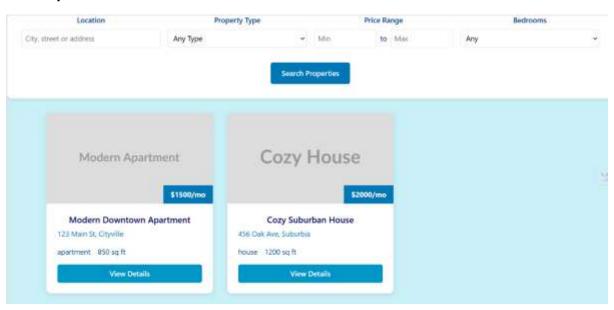
- User authentication
- Property CRUD
- Booking flow and status change
- Admin approval flow

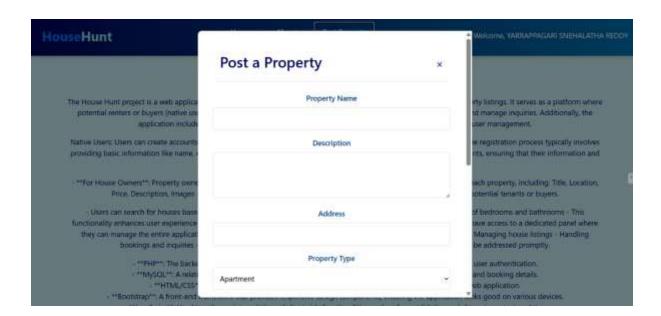
6.2 Performance Testing

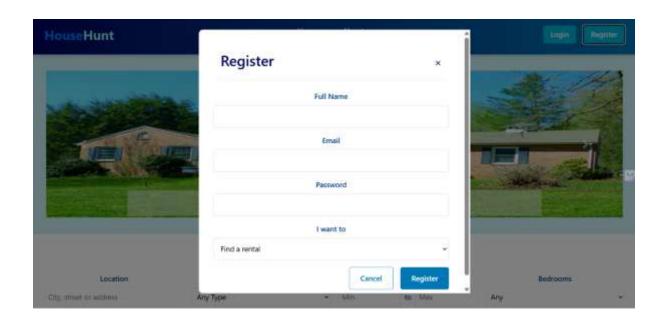
- Load testing for APIs
- Ul responsiveness across devices

7. RESULTS

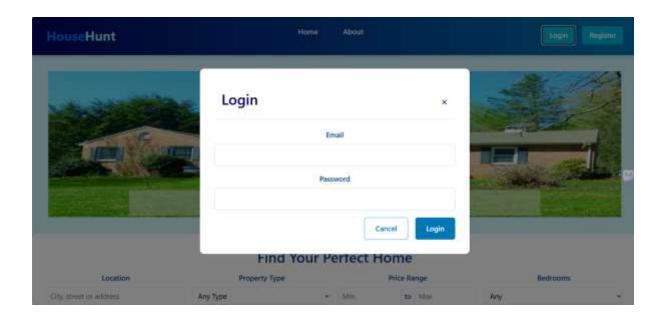
7.1 Output Screenshots











8. CONCLUSION

HouseHunt successfully provides a scalable solution to bridge the gap between property owners and renters. It ensures a secure, easy-to-navigate experience and smooth role-based operations.

9. APPENDIX

9.1Source Code Repository

GitHub: snehalatha-reddy/House-hunt

9.2 Project Demo Video

YouTube: https://youtu.be/IUoj8_4j8Jo?si=u1pExDDntDsAWvQp

9.3 Tools and Technologies

Visual Studio Code, Node.js, MongoDB Compass, Postman, GitHub, Netlify/Vercel