

# House Hunt: Finding Your Perfect Rental Home

## Introduction

House Hunt is a web-based application aimed at helping individuals and families find their ideal rental homes based on preferred locations, budgets, amenities, and more. It provides a centralized platform for landlords to list properties and for renters to explore options and connect with property owners.

## Objectives

- To simplify the process of searching for rental properties.
- To provide filtered search results based on user preferences.
- To enable landlords to list and manage property details.
- To ensure a smooth communication channel between tenants and landlords.

## System Architecture

The application architecture includes:

1. Frontend: HTML, CSS, JavaScript, React.js
2. Backend: Node.js with Express.js
3. Database: MongoDB
4. Authentication: JSON Web Tokens (JWT) for secure login

## Features

- User Registration and Login
- Search Rental Homes by Location, Price, and Type
- Filter Properties by Amenities (e.g., Wi-Fi, Parking, Furnished)

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- Property Listings with Images and Descriptions
- Contact and Booking Feature
- Admin Panel for Property and User Management

## Class Structure (Backend)

class User:

- user\_id
- name
- email
- password

class Property:

- property\_id
- title
- location
- price
- amenities
- images

class Booking:

- booking\_id
- user\_id
- property\_id
- status

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- contact\_info

## Conclusion

House Hunt is an effective solution for streamlining the rental home search experience. It bridges the gap between property seekers and landlords, enabling efficient property discovery and communication.