

Full Stack Development with MERN

Project Documentation

1. Introduction

• **Project Title:** HouseHunt: Finding Your Perfect Rental Home

Team Members:

Team Size: 4

Team Leader:

- **Jahnvi Kasuri**-Full Stack Development & Frontend Support

Team Members:

- **Bhargavi Gandhi**– Presentation Support
- **Deepika Patchipulusu**- Documentation
- **Anupoj Meghana**– Frontend Development (UI Components & Design)

2. Project Overview

• **Purpose:**

The purpose of this project is to develop a responsive rental home listing web application that allows users to search and filter rental houses based on location and price range.

The project demonstrates front-end web development skills including UI design, dynamic content rendering, and client-side filtering using JavaScript.

The main objective is to provide a simple and user-friendly

• **Features:**

 **User Features:**

- View rental house listings
- Filter houses by location
- Dynamic display of matching properties
- Simple and responsive user interface Place Orders

  **Admin Features:**

Form to add new house

- Filter conditions
- Location match
- Prices less than or equal to selected range

3. Architecture

• Frontend: (Client)

Developed using:

- HTML5 – Structure
- CSS3 – Styling and layout
- JavaScript – Filtering functionality
- The application follows a simple client-side architecture
- House data stored as JavaScript objects
- Filtering logic implemented using JavaScript functions
- DOM manipulation used to dynamically display results
- No backend integration is used in this version

• Backend:

Not implemented (Static Frontend Project)

• Database:

Not implemented (House data stored in JavaScript array format)

4. Setup Instructions

• Prerequisites:

- Web Browser (Chrome / Edge / Firefox)
- VS Code (Optional for editing)
- Git (For version control and GitHub upload)

Installation:

Step 1: Clone Repository

```
git clone https://github.com/PadmaGadi17/shopsmart-grocery-webapp.git
```

Step 2: Open Project Folder

Open index.html in browser

5. Folder Structure

househunt-project/

|— index.htm

|— style.css

|— script.js

6. Running the Application:

Since this is a static web project:

- Double click index.html
(or)
- Open with Live Server (VS Code extension)
- Application runs in browser.

7. Functionality Documentation

House Filtering:

- Houses stored in an array of objects
- Filter conditions:
- Location match
- Price less than or equal to selected range

Example Data Structure:

```
{  
  location: "Hyderabad",  
  price: 8000,  
  type: "1BHK"  
}
```

8. User Interface

- The UI includes:
 - Home Page
 - Location Filter Dropdown
 - Price Filter Dropdown
 - Search Button
 - House Listing Display Section
- The design is clean and responsive

9. Testing

Manual testing performed for:

Filter functionality

Correct display of houses

No result handling

Responsive layout

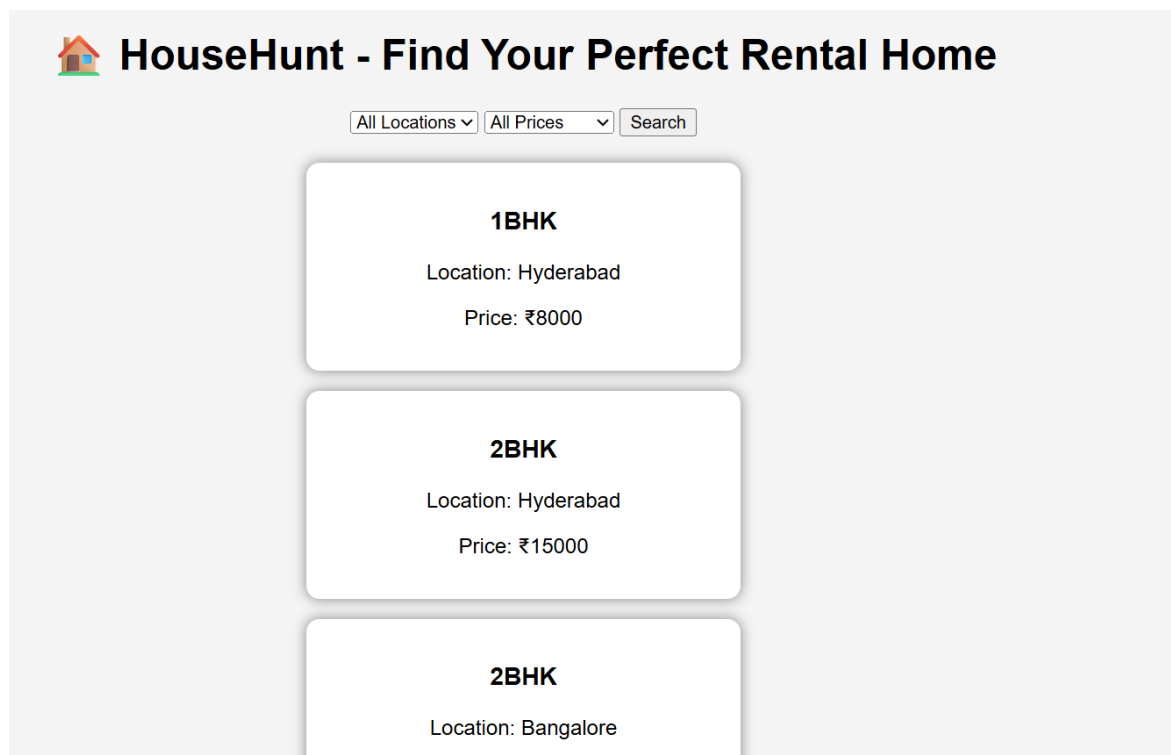
Tested in:

Google Chrome

Microsoft Edge

10 Screenshots or Demo

•Demo Video Link: <https://photos.app.goo.gl/6Sgrb9RuhdipE9tW6>



Screenshots included in documentation.

12. Known Issues

- No backend integration
- No database connectivity
- Static house data
- No user login system

13. Future Enhancements

- Add backend using Node.js & Express
- Add database using MongoDB
- Add user authentication system
- Add property images
- Add favourite/save option
- Add Google Maps integration
- Improve responsive UI
- Deploy using cloud platforms