

HOUSE RENTING APP Using MERN Stack

Screenshots of Installation and Executions

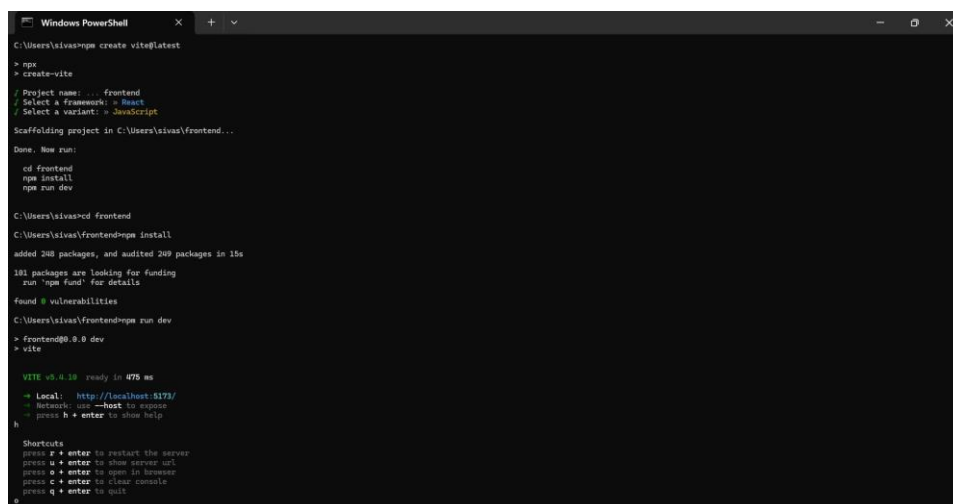
1. PRE-REQUISITES :

Here are the key prerequisites for developing a full-stack application using Node.js, Express.js, MongoDB, React.js:

✓ Vite:

Vite is a new frontend build tool that aims to improve the developer experience for development with the local machine, and for the build of optimized assets for production (go live). Vite (or ViteJS) includes: a development server with ES _native_ support and Hot Module Replacement; a build command based on rollup.

Installation : **npm create vite@latest**



```
C:\Users\shiv>npm create vite@latest
> npm
> create-vite

/ Project name: ... frontend
/ Select a framework: > React
/ Select a variant: > JavaScript
Scaffolding project in C:\Users\shiv\frontend...

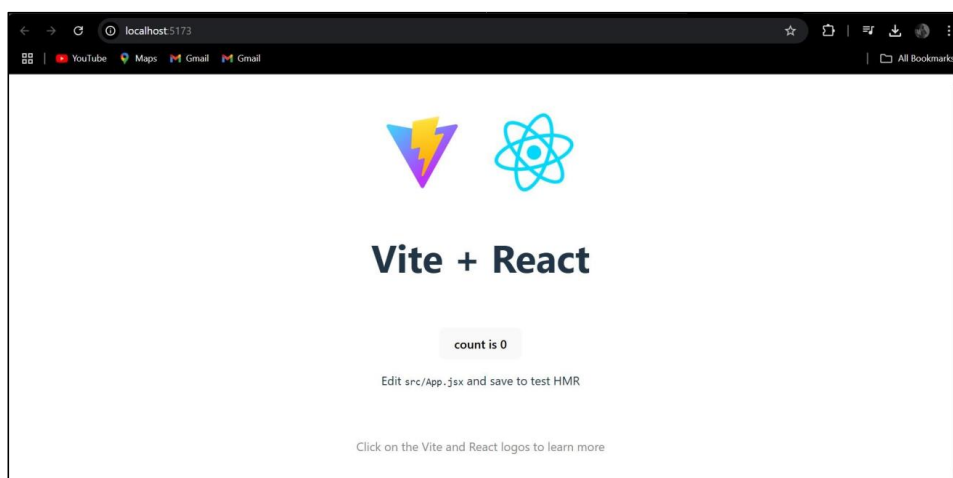
Done. Now run:

cd frontend
npm install
npm run dev

C:\Users\shiv>cd frontend
C:\Users\shiv\frontend>npm install
added 208 packages, and audited 209 packages in 15s
181 packages are looking for funding
  run `npm fund` for details
found 0 vulnerabilities
C:\Users\shiv\frontend>npm run dev
> frontend@0.0.0 dev
> vite

VITE v5.4.10  ready in 475 ms
➜ Local:   http://localhost:5173/
➜ Network: use --host to expose
press h + enter to show help
h

Shortcuts
press r + enter to restart the server
press s + enter to show server url
press o + enter to open in browser
press c + enter to clear console
press q + enter to quit
```



✓ Node.js and npm:

Node.js is a powerful JavaScript runtime environment that allows you to run JavaScript code on the server-side. It provides a scalable and efficient platform for building network applications.

Install Node.js and npm on your development machine, as they are required to run JavaScript on the server-side.

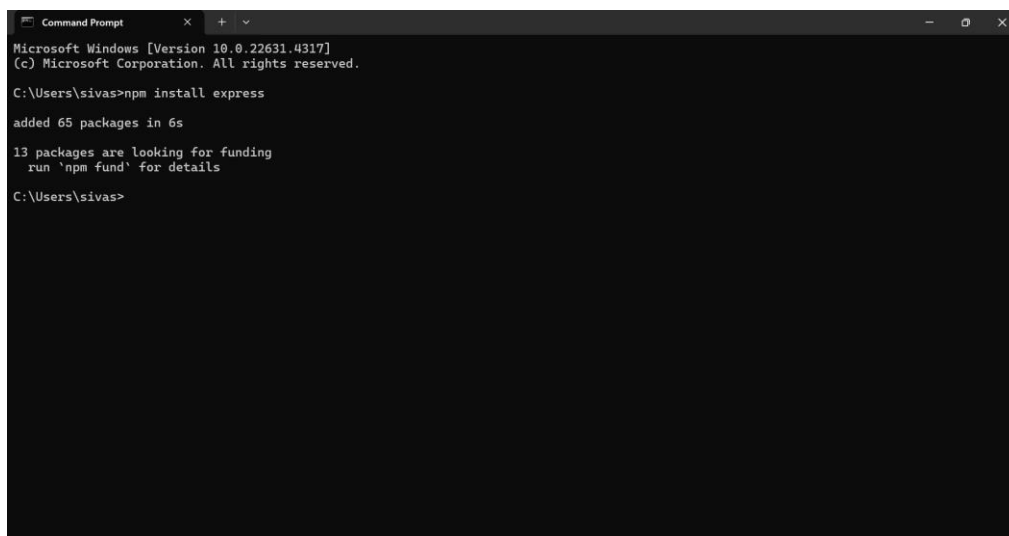
Download: <https://nodejs.org/en/download/>

Installation instructions: <https://nodejs.org/en/download/package-manager/> Run “**npm init**” to get default dependencies

✓ **Express.js:**

Express.js is a fast and minimalist web application framework for Node.js. It simplifies the process of creating robust APIs and web applications, offering features like routing, middleware support, and modular architecture. Install Express.js, a web application framework for Node.js, which handles server-side routing, middleware, and API development.

Installation: Open your command prompt or terminal and run the following command: **npm install express**



```
Microsoft Windows [Version 10.0.22631.4317]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sivas>npm install express

added 65 packages in 6s
13 packages are looking for funding
  run 'npm fund' for details

C:\Users\sivas>
```

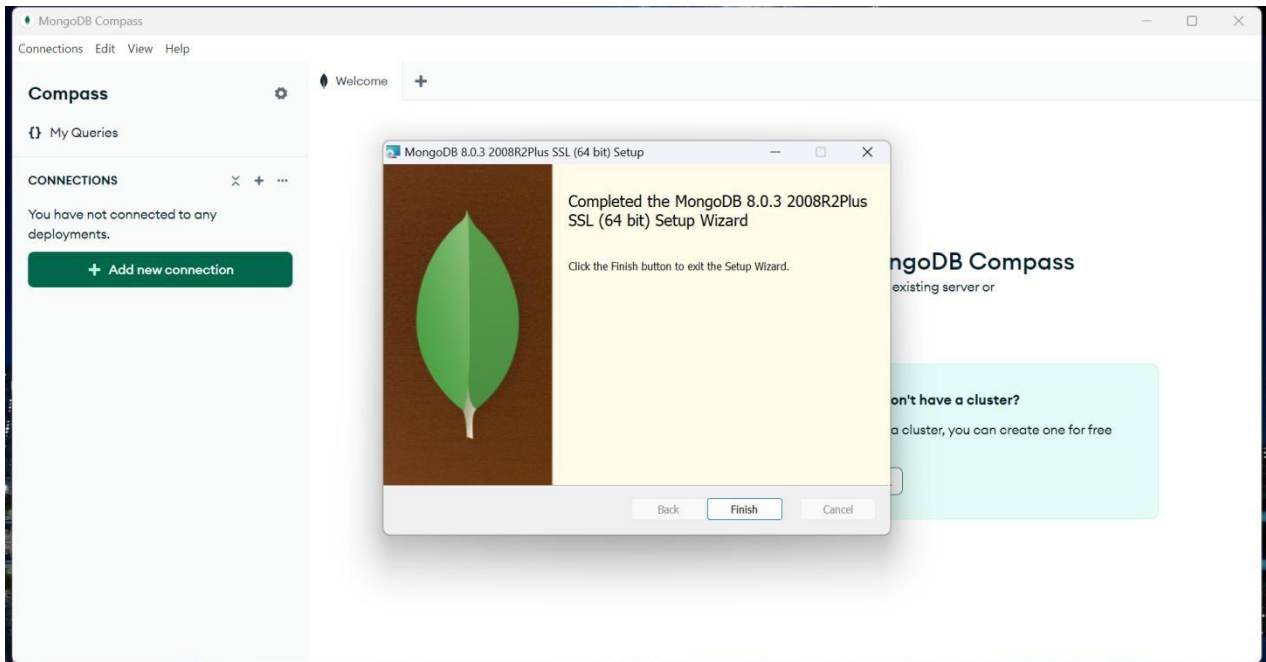
✓ **MongoDB:**

MongoDB is a flexible and scalable NoSQL database that stores data in a JSON-like format. It provides high performance, horizontal scalability, and seamless integration with Node.js, making it ideal for handling large amounts of structured and unstructured data.

Set up a MongoDB database to store your application's data.

Download: <https://www.mongodb.com/try/download/community>

Installation instructions: <https://docs.mongodb.com/manual/installation/>



✓ **React.js:**

React.js is a popular JavaScript library for building user interfaces. It enables developers to create interactive and reusable UI components, making it easier to build dynamic and responsive web applications.

Install React.js, a JavaScript library for building user interfaces.

Follow the installation guide: <https://reactjs.org/docs/create-a-new-react-app.html>

✓ **HTML, CSS, and JavaScript:**

Basic knowledge of HTML for creating the structure of your app, CSS for styling, and JavaScript for client-side interactivity is essential.

✓ **Database Connectivity:**

Use a MongoDB driver or an Object-Document Mapping (ODM) library like Mongoose to connect your Node.js server with the MongoDB database and perform CRUD (Create, Read, Update, Delete) operations.

✓ **Front-end Framework:**

Utilize React.js to build the user-facing part of the application, including entering booking room, status of the booking, and user interfaces for the admin dashboard. For making better UI we have also used some libraries like material UI and bootstrap.

Install the required dependencies by running the following commands:

cd frontend || npm install

cd ../backend || npm install

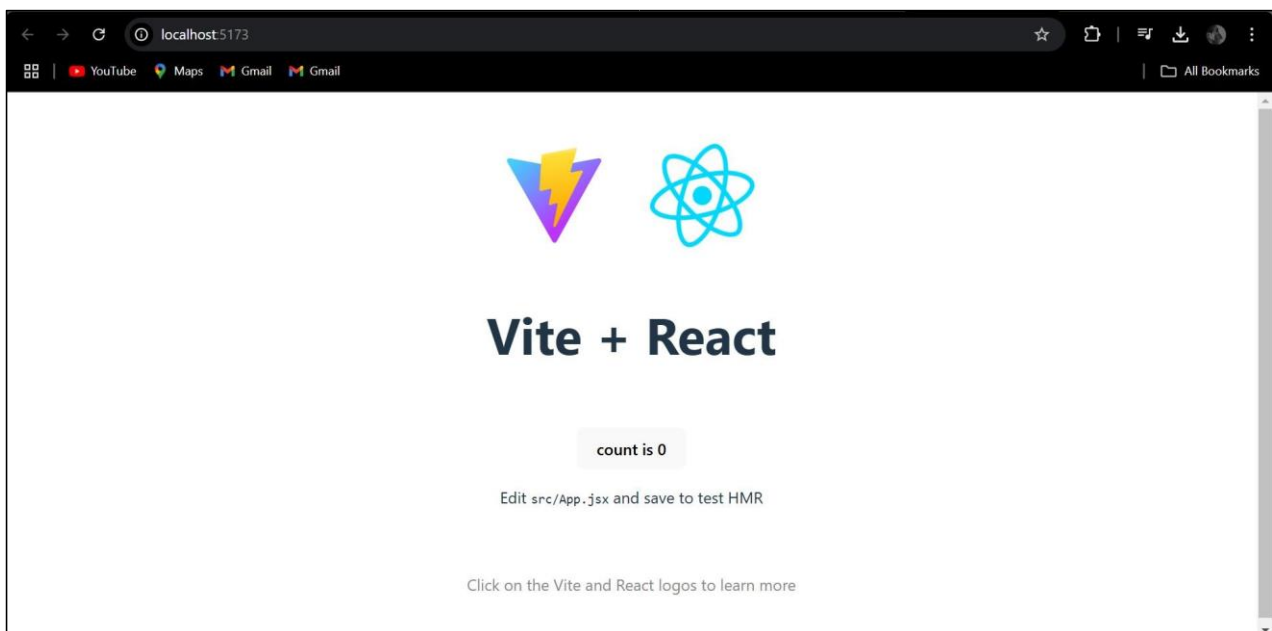
Start the Development

Server:

- To start the development server, execute the following command:

`npm start`

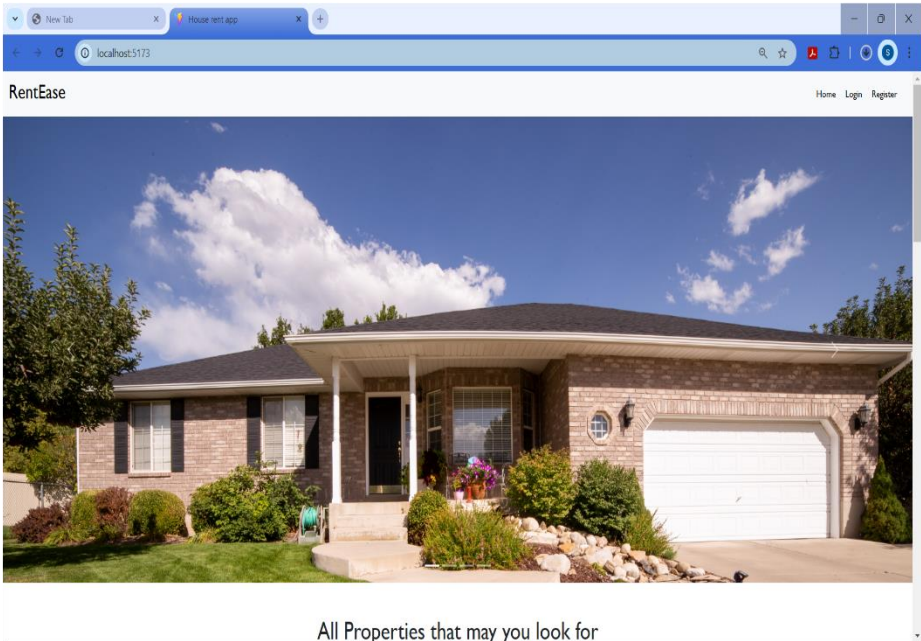
- The HRA app will be accessible at <http://localhost:5172>



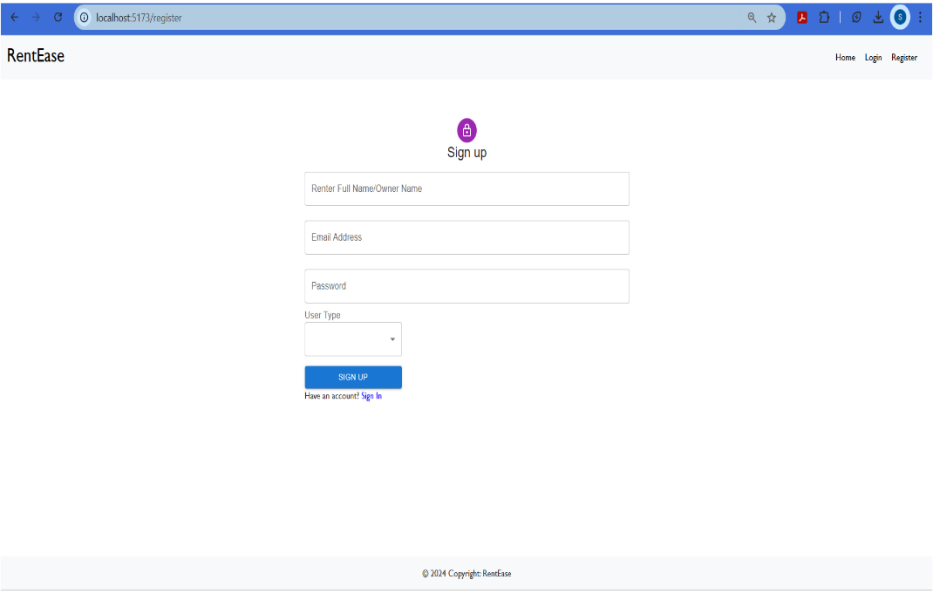
The installation is successfully installed and set up the House renting app on your local machine. You can now proceed with further customization, development, and testing as needed.

1.1. SCREENSHOTS

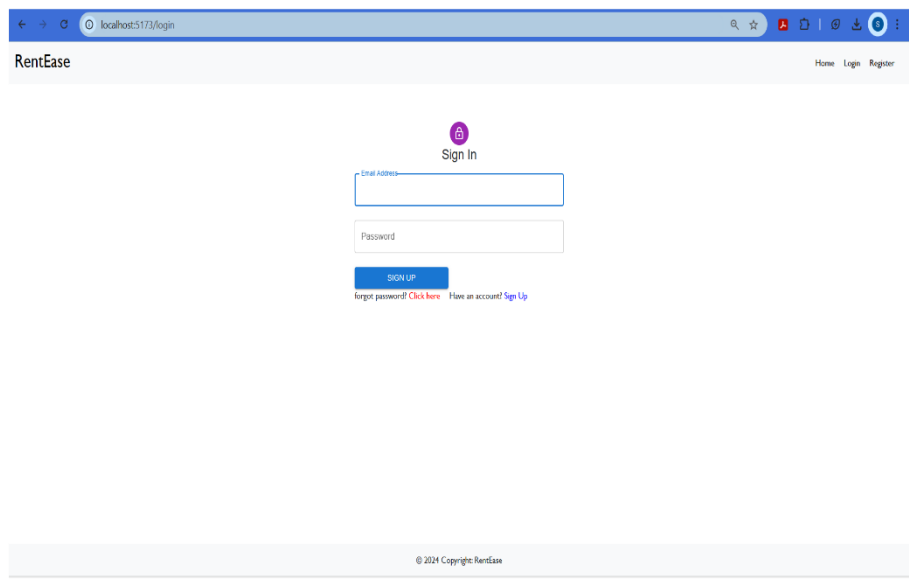
House renting website interface:



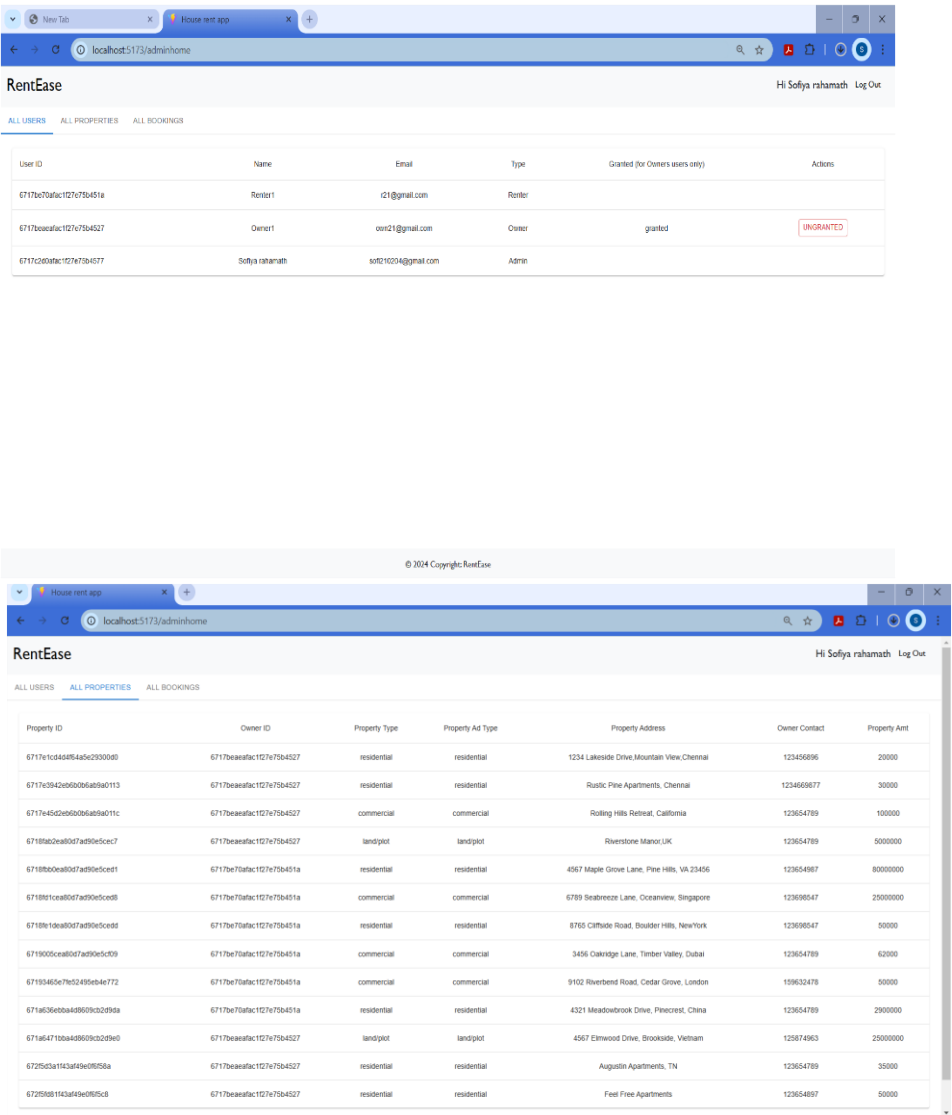
Registration page:



Login page:



Admin panel:



House rent app

localhost:5173/adminhome

Hi Sofya rahamadhLog Out

ALL USERSALL PROPERTIESALL BOOKINGS

Booking ID	Owner ID	Property ID	Tenant ID	Tenant Name	Tenant Contact	Booking Status
671a262349e3b7e5980d16	6717be70afac1027e79b451a	6718fb60ea007ad90e5ced1	6717be70afac1027e79b451a	shareen	1235445889	booked
671a61450ba4d9609c225b8d	6717be70afac1027e79b4527	6717e452e69b006a9a011c	6717be70afac1027e79b451a	sofiya	126548978	booked
671d0e50430ccc06059474d	6717be70afac1027e79b4527	6717e3942eb6b006a9a0113	6717be70afac1027e79b451a	sofi	9514251012	booked
67255cd1143af49e09557e	6717be70afac1027e79b4527	6717e3942eb6b006a9a0113	6717be70afac1027e79b451a	sara	12365478	booked
6725f791163af49e0955b4	6717be70afac1027e79b451a	6719005cea807ad90e5cd9	6717be70afac1027e79b451a	mini	123654789	pending

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Renter’s page:

House rent app

localhost:5173/renterhome

Hi Renter !Log Out

ALL PROPERTIESBOOKING HISTORY

Filter By: :Address

All Ad Types

All Types

Location:
1234 Lakeside Drive,Mountain View,Chennai

Property Type:
residential

Ad Type:
rent

Owner Contact:
123456896

Availability:
undefined

Property Amount:
Rs.20000

Not Available

Location:
Rustic Pine Apartments, Chennai

Property Type:
residential

Ad Type:
rent

Owner Contact:
1234569877

Availability:
Unavailable

Property Amount:
Rs.30000

Not Available

Location:
Rolling Hills Retreat, California

Property Type:
commercial

Ad Type:
rent

Owner Contact:
123654789

Availability:
Unavailable

Property Amount:
Rs.100000

Not Available

Location:
Riverstone Manor,UK

Property Type:
land/plot

Ad Type:
sale

Owner Contact:
123654789

Availability:
Available

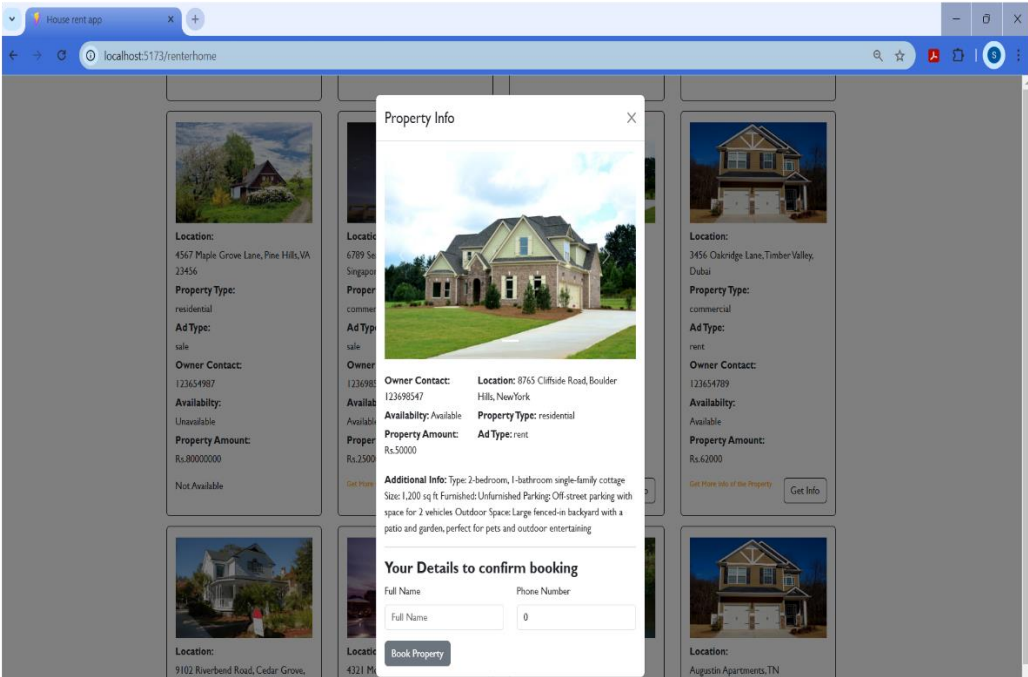
Property Amount:
Rs.5000000

Get More info of the Property

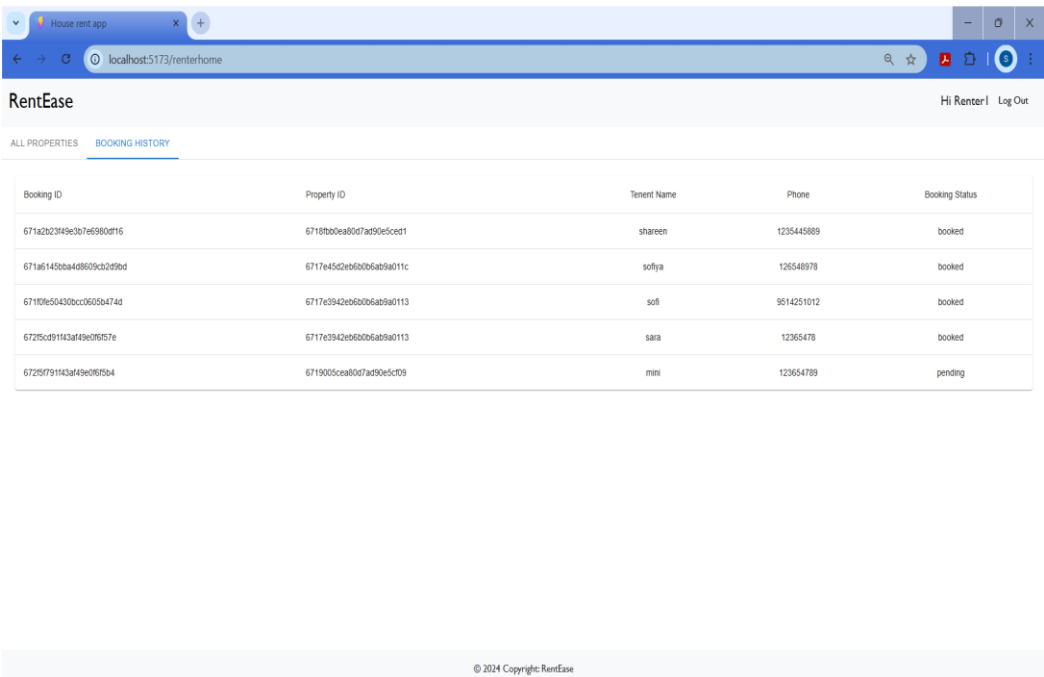
Get Info

7

Property Info:



Renter's page History:



Owner’s page:

House rent app

localhost:5173/owner/home

Hi Owner | Log Out

ADD PROPERTY

ALL PROPERTIES

ALL BOOKINGS

Property type

Residential

Property Ad type

Rent

Property Full Address

Address

Property Images

Choose Files

No file chosen

Owner Contact No.

contact number

Property Amt.

0

Additional details for the Property

Submit form

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Owner Properties Info:

House rent app

localhost:5173/owner/home

Hi Owner | Log Out

ADD PROPERTY

ALL PROPERTIES

ALL BOOKINGS

Property ID	Property Type	Property Ad Type	Property Address	Owner Contact	Property Amt	Property Availability	Action
6717e1c464f645e2300d0	residential	rent	1234 Lakeside Drive,Mountain View,Chennai	123456896	20000	undefined	<div>EditDelete</div>
6717e3942e6b06ab9a0113	residential	rent	Rustic Pine Apartments, Chennai	1234669877	30000	Unavailable	<div>EditDelete</div>
6717e45d2e6b06ab9a011c	commercial	rent	Rolling Hills Retreat, California	123654789	100000	Unavailable	<div>EditDelete</div>
6718fab2ea80d7a90e5cec7	landplot	sale	Riverstone Manor,UK	123654789	5000000	Available	<div>EditDelete</div>
671a6471bba48609cb2d9e0	landplot	sale	4567 Elmwood Drive, Brookside, Vietnam	125874963	25000000	Available	<div>EditDelete</div>
672f5d3a1f43af49e0f6f56a	residential	rent	Augustin Apartments, TN	123654789	35000	Available	<div>EditDelete</div>
672f5f081f43af49e0f6f5c8	residential	rent	Feel Free Apartments	123654897	50000	Available	<div>EditDelete</div>

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All booking history:

House rent app

localhost:5173/ownerhome

Hi Owner | Log Out

ADD PROPERTY

ALL PROPERTIES

ALL BOOKINGS

Booking ID	Property ID	Tenant Name	Tenant Phone	Booking Status	Actions
671a6145bba40b09c32d9bd	6717e45d2eb60b6a09a011c	sofiya	1265409378	booked	Change
67110f650430bc06092d474d	6717e3942eb60b6a09a0113	sofi	9514251012	booked	Change
6725c091f43f49e0f5f7e	6717e3942eb60b6a09a0113	sara	12365478	booked	Change

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Database Details

cloud.mongodb.com/v2/66ebb13e858f6104c4034a33f/metrics/replicaSet/66ebb1de79c23a634b77b20/explorer/houseRentingApp/bookingschemas/find

Atlas Sofiya@21 Access Manager Billing All Clusters Get Help Sofiya

HouseRentingA... Data Services Charts

Overview

DATABASE

Clusters

SERVICES

Atlas Search

Stream Processing

Triggers

Migration

Data Federation

Programmatic Access

SECURITY

Quickstart

Backup

Database Access

Network Access

Advanced

SOFIYA@21 > HOUSERENTINGAPP > DATABASES

HouseApp

VERSION 7.0.15 REGION GCP Mumbai (asia-south1)

Overview Real Time Metrics Collections Atlas Search Performance Advisor Online Archive Cmd Line Tools Programmatic Access

DATABASES: 1 COLLECTIONS: 3

+ Create Database

Search Namespaces

HouseRentingApp

bookingschemas

propertyschemas

users

HouseRentingApp.bookingschemas

STORAGE SIZE: 36KB LOGICAL DATA SIZE: 865B TOTAL DOCUMENTS: 5 INDEXES TOTAL SIZE: 36KB

Find Indexes Schema Anti-Patterns Aggregation Search Indexes

INSERT DOCUMENT

Filter Type a query: { field: 'value' } Reset Apply Options

QUERY RESULTS: 1-5 OF 5

_id: ObjectId('671a2b23f49e3b7e6980df16')

ownerID: ObjectId('67117be78afac1f27e75b451a')

userID: ObjectId('6717be78afac1f27e75b451a')

userName: "shareen"

phone: 1235445089

bookingStatus: "booked"

propertyId: "6718fbbba8bd7ad99e5cd1"

cloud.mongodb.com/v2/66ebb13e858f6104c4034a334/metrics/replicaSet/66ebb1de79c23a6e34b77b20/explorer/HouseRentingApp/propertyschemas/find

Atlas Sofiya@21 Access Manager Billing All Clusters Get Help Sofiya

HouseRentingA... Data Services Charts

Overview DATABASE Clusters SERVICES Atlas Search Stream Processing Triggers Migration Data Federation Programmatic Access SECURITY Quickstart Backup Database Access Network Access Advanced Goto

+ Create Database

Search Namespaces

HouseRentingApp bookingschemas propertyschemas users

HouseRentingApp.propertyschemas

STORAGE SIZE: 44KB LOGICAL DATA SIZE: 942KB TOTAL DOCUMENTS: 13 INDEXES TOTAL SIZE: 36KB

Find Indexes Schema Anti-Patterns Aggregation Search Indexes

Generate queries from natural language in Compass

INSERT DOCUMENT

Filter Type a query: { field: 'value' } Reset Apply Options

QUERY RESULTS: 1-13 OF 13

```
{
  "_id": ObjectId("6717e1cd4d4f64a5e29300d9"),
  "ownerId": ObjectId("6717beaeaf1f27e75b4527"),
  "propertyType": "residential",
  "propertyAdType": "rent",
  "propertyAddress": "1234 Lakeside Drive, Mountain View, Chennai",
  "ownerContact": 123456896,
  "propertyLat": 20000,
  "propertyImage": Array (1)
  additionalInfo: "A stand-alone house with a private yard, driveway, and potentially a g..."
  ownerName: "Owner1"
  userId: "6717beaeaf1f27e75b4527"
  isAvailable: "undefined"
  __v: 0
}
```

System Status: All Good

cloud.mongodb.com/v2/66ebb13e858f6104c4034a334/metrics/replicaSet/66ebb1de79c23a6e34b77b20/explorer/HouseRentingApp/users/find

Atlas Sofiya@21 Access Manager Billing All Clusters Get Help Sofiya

HouseRentingA... Data Services Charts

Overview DATABASE Clusters SERVICES Atlas Search Stream Processing Triggers Migration Data Federation Programmatic Access SECURITY Quickstart Backup Database Access Network Access Advanced Goto

+ Create Database

Search Namespaces

HouseRentingApp bookingschemas propertyschemas users

HouseRentingApp.users

STORAGE SIZE: 36KB LOGICAL DATA SIZE: 634B TOTAL DOCUMENTS: 3 INDEXES TOTAL SIZE: 36KB

Find Indexes Schema Anti-Patterns Aggregation Search Indexes

Generate queries from natural language in Compass

INSERT DOCUMENT

Filter Type a query: { field: 'value' } Reset Apply Options

QUERY RESULTS: 1-3 OF 3

```
{
  "_id": ObjectId("6717be70afac1f27e75b451a"),
  "name": "Renter1",
  "email": "r21@gmail.com",
  "password": "62a5185z/HY146010ESX/WNRLxevIudfyWqN/3Qs.GxkXq3tuMaZggIDIS4y",
  "type": "Renter",
  __v: 0
},
{
  "_id": ObjectId("6717beaeaf1f27e75b4527"),
  "name": "Owner1",
  "email": "own21@gmail.com",
  "password": "62a5185z/1aAm/v1hnc8gfrnhoZmc0doid1Entwmc/nx8a9UeGPHNzNw1ulue",
  "type": "Owner",
  createdAt: "2023-03-14T10:00:00.000Z",
  __v: 0
}
```

System Status: All Good