



GLA
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Department of Computer Science & Applications

Institute of Engineering & Technology

Project Report

On

Real Estate Website

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Submitted To:

Mr. Akash Kumar Choudhary

(Technical Trainer)

DECLARATION

We hereby declare that the work which is being presented in the Bachelor of technology project 'Real Estate website, in partial fulfilment of the requirements for the award of the Bachelor of Technology in Computer Science and Engineering and submitted to the Department of Computer Engineering and Applications of GLA University, Mathura, is an authentic record of our own work carried under the Mentorship of Mr. Akash Kumar Choudhary, Technical Trainee, Dept. of CEA, GLA University.

The contents of this report, in full or in parts, have not been submitted to any other Institute or University for the award of any degree.

Sign: _____

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ACKNOWLEDGEMENT

It gives us a great sense of pleasure to present the report of the B.Tech fullstack project undertaken during B. Tech III Year. This project is going to be an acknowledgment of the inspiration, drive, and technical assistance that will be contributed to it by many individuals. We owe a special debt of gratitude to Mr. Akash Kumar Choudhary, Technical Trainer, for providing us with an encouraging platform to develop this project, which thus helped us in shaping our abilities towards a constructive goal, and for his constant support and guidance to our work.

His sincerity, thoroughness, and perseverance have been a constant source of inspiration for us. We believe that he will shower us with all his extensively experienced ideas and insightful comments at different stages of the project & also will teach us about the latest industry-oriented technologies. We would like to acknowledge the contribution of all faculty members of the department for their kind guidance and cooperation.

Gauri Agrawal (201500252)

Shivani Singh (201500661)

Yugal Gautam (201500835)

CERTIFICATE

This is to certify that the project entitled 'Realtors', carried out in Full Stack Project, is a Bonafide work by Yugal Gautam, Shivani Singh, and Gauri Agrawal and is to be submitted in partial fulfilment of the requirements for the award of the degree Bachelor of Technology (Computer Science & Engineering).

Signature of Authorized

Mr. Akash Kumar Choudhary

(Technical Trainer)

INDEX

S.NO	TOPIC
1	Introduction
2	Title of the Project
3	Objective of the project
4	Why This Project
5	Features of The Project
6	Application
7	Module In the Project
8	System Requirements
10	Scope of the Project
11	Implementation
12	SNAPSHOTS
13	Conclusion

INTRODUCTION

This platform caters to all your real estate needs. Whether you're buying, selling, or renting a property, our website is designed to provide you with a seamless and convenient experience.

This website features an extensive listing of properties, including residential homes, commercial spaces, and investment properties, in various locations. Our advanced search filters allow you to narrow down your search based on your specific requirements, such as price range, location, and property type, making it easy to find your dream home or the perfect investment opportunity.

For sellers, our website provides valuable tools to showcase your property, including high-quality photos, virtual tours, and detailed property descriptions. You can also easily request a free home valuation to accurately price your property and attract potential buyers.

Title of the Project

REALTORS

‘Realtors’ will play an essential role in Property Listings and Property Search. This website can serve as a marketing and promotional tool for real estate agents, brokers, or agencies.

Goal: By this website, it can facilitate communication between real estate professionals and their clients.

Key Words: Advanced Web technology, JavaScript, NodeJS, Mongoose.

Objective of the project

The primary objective of this website is to showcase property listings. This includes providing detailed information about available properties, such as their location, features, pricing, and images. The goal is to attract potential buyers or renters to view the listings and inquire about the properties.

Another objective of real estate website is to provide valuable market information to users.

Application

Education and training: Realtors can be used as a case study or training tool for developers and engineers looking to learn and practice web development and modern technologies such as React, Node.js, and MongoDB.

Module In the Project

The modules involved in this project are: -

- Admin
- User

Admin:

- Can maintain whole site.
- Can maintain all record of users.
- Can make changes to data.

User:

- Search Land and Buildings.
- Give review.

SYSTEM REQUIREMENTS

Hardware Requirements: -

The Website will smoothly run or operate on any system with –

- Processors above or equal to Intel core i3.
- Any system with Ram (4GB or higher).
- System with any operating system.
- A web browser is needed.
- Active Internet Connection (at least 120kbps)

Software Requirements: -

Front End: -

HTML - HTML stands for Hyper Text terminology HTML is that the standard terminology for creating sites HTML describes the structure of an internet page HTML consists of a series of elements HTML elements tell the browser the way to display the content.

CSS - CSS stands for Cascading Style Sheets CSS describes how HTML elements are to be displayed on screen, paper, or in other media CSS saves tons of labour. It can control the layout of multiple sites all directly External stylesheets are stored in CSS files.

Java Script - JavaScript is the world's most popular programming language. JavaScript is that the dominant client-side scripting language of the online. JavaScript is easy to learn. JavaScript, often abbreviated JS, may be a programming language that's one among the core technologies of the planet Wide Web, alongside HTML and CSS.

React JS - React is a JavaScript library for building user interfaces. React has been designed from the start for gradual adoption, and you can use as little or as much React as you need. You can add React to an HTML page in one minute. You can then either gradually expand its presence, or keep it contained to a few dynamic widgets.

Back End: -

Node.JS - Node.js is a popular open-source, cross-platform, back-end JavaScript runtime environment. It is built on the Chrome V8 JavaScript engine and enables developers to create highly scalable and fast network applications. Node.js uses an event-driven, non-blocking I/O model that makes it ideal for building real-time applications, such as chat applications and online games. Node.js offers a vast library of pre-built modules, making it easier for developers to add functionality to their applications. Node.js is also highly flexible, as it can run on a variety of platforms, including Linux, macOS, and Windows.

Mongoose - Mongoose is an Object Data Modelling (ODM) library for MongoDB and Node.js and it manages relationships between data, provides schema validation, and is employed to translate between objects in code and therefore the representation of these objects in MongoDB.

Database: -

MongoDB - MongoDB is a source-available cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with discretionary schemas. MongoDB is originally developed by MongoDB Inc. and licensed under the Server-Side Public License.

Theoretical Aspects of Web Development Project

Web development refers to building website and deploying on the web. Web development requires use of scripting languages both at the server end as well as at client end.

Before developing a web site once should keep several aspects in mind like:

- ☐ What to put on the web site?
- ☐ Who will host it?
- ☐ How to make it interactive?
- ☐ How to code it?
- ☐ How to create search engine friendly web site?

Web Development Process

Web development process includes all the steps that are good to take to build an attractive, effective and responsive website.

Web development tools

Web development tools helps the developer to test and debug the web sites. Now a days the web development tool come with the web browsers as add-ons. All web browsers have built in tools for this purpose.

These tools allow the web developer to use HTML, CSS and JavaScript etc. These are accessed by hovering over an item on a web page and selecting the “Inspect Element” from the context menu.

Scope of the Project

The scope of real estate websites is continuously evolving as technology advances and the real estate industry undergoes changes. In terms of customers, this website is easy-to-use for searching and comparing properties, accessing property details, connecting with real estate agents or brokers, and obtaining valuable information. It provides resources for sustainability, social impact, and community information, helping customers make informed decisions based on their preferences and needs.

Implementation

Implementation is the stage in the project where the theoretical design is turned into the working system and is giving confidence to the new system for the users i.e., will work efficiently and effectively. It involves careful planning, investigation of the current system and its constraints on implementation, design of method to achieve the changeover, an evaluation, of change over methods. Apart from planning major task of preparing the implementation is education of users. The more complex system is implemented, the more involved will be the system analysis and design effort required just for implementation. An implementation coordinating committee based on policies of individual organization has been appointed. The implementation process begins with preparing a plan for the implementation for the system. According to this plan, the activities are to be carried out, discussions may regarding the equipment has to be acquired to implement the new system Implementation is the final and important phase. The most critical stage is in achieving a successful new system and in giving the users confidence that the new system will work and be effective. The system can be implemented only after thorough testing is done and if it found to working according to the specification. This method also offers the greatest security since the old system can take over if the errors are found or inability to handle certain types of transaction while using the new system.

CODE

index.js

```
import React from "react"
import ReactDOM from "react-dom/client"
import App from "./App"
import { BrowserRouter } from "react-router-dom";

const root = ReactDOM.createRoot(document.getElementById("root"));

root.render(
  <App />
)
```

App.js

```
import "./App.css";
import { Route, Routes, Navigate, BrowserRouter } from "react-router-dom";
import Pages from "./components/pages/Pages";
import Signup from "./components/signup/index";
import Login from "./components/login/index";
import Home from "./components/home/Home";
import About from "./components/about/About";
import Services from "./components/services/Services";
import Blog from "./components/blog/Blog";
import Pricing from "./components/pricing/Pricing";
import Contact from "./components/contact/Contact";

function App() {
  const user = localStorage.getItem("token");

  return (

    <BrowserRouter>
      <Routes>
        {user && (
          <Route path="/" element={<Home />} />
          || <Route path="/about" element={<About/>} />
          || <Route path="/services" element={<Services/>} />
          || <Route path="/blog" element={<Blog/>} />
          || <Route path="/pricing" element={<Pricing/>} />
          || <Route path="/contact" element={<Contact/>} />)}
          <Route path="/signup" exact element={<Signup />} />
        </Routes>
      </BrowserRouter>
    )
  }
```

```

    <Route path="/login" exact element={<Login />} />
    <Route path="/" element={<Navigate replace to="/login" />} />
    <Route path='/home' element={<Home />} />
      <Route path='/about' element={<About/>} />
      <Route path='/services' element={<Services/>} />
      <Route path='/blog' element={<Blog/>} />
      <Route path='/pricing' element={<Pricing/>} />
      <Route path='/contact' element={<Contact/>} />
    </Routes>
  </BrowserRouter>

);
}

export default App;

```

index.html

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <link rel="icon" href="%PUBLIC_URL%/favicon.png" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <meta name="theme-color" content="#000000" />
    <meta name="description" content="Web site created using create-react-app" />
    <link rel="apple-touch-icon" href="%PUBLIC_URL%/logo192.png" />
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.1.1/css/all.min.css" integrity="sha512-KfkfwYDsLkIlwQp6LFn8zNdLGxu9YAA1QvwINks4PhcElQSwqcyVLLD9aMhXd13uQjoXtEKNosOWaZqXgel0g==" crossorigin="anonymous" referrerpolicy="no-referrer" />
    <link rel="manifest" href="%PUBLIC_URL%/manifest.json" />
    <title>RentUp - Residence & Real Estate Website</title>
  </head>
  <body>
    <noscript>You need to enable JavaScript to run this app.</noscript>
    <div id="root"></div>
  </body>
</html>

```

SNAPSHOTS

SIGN UP AND SIGN IN PAGE:

Welcome Back

Create Account

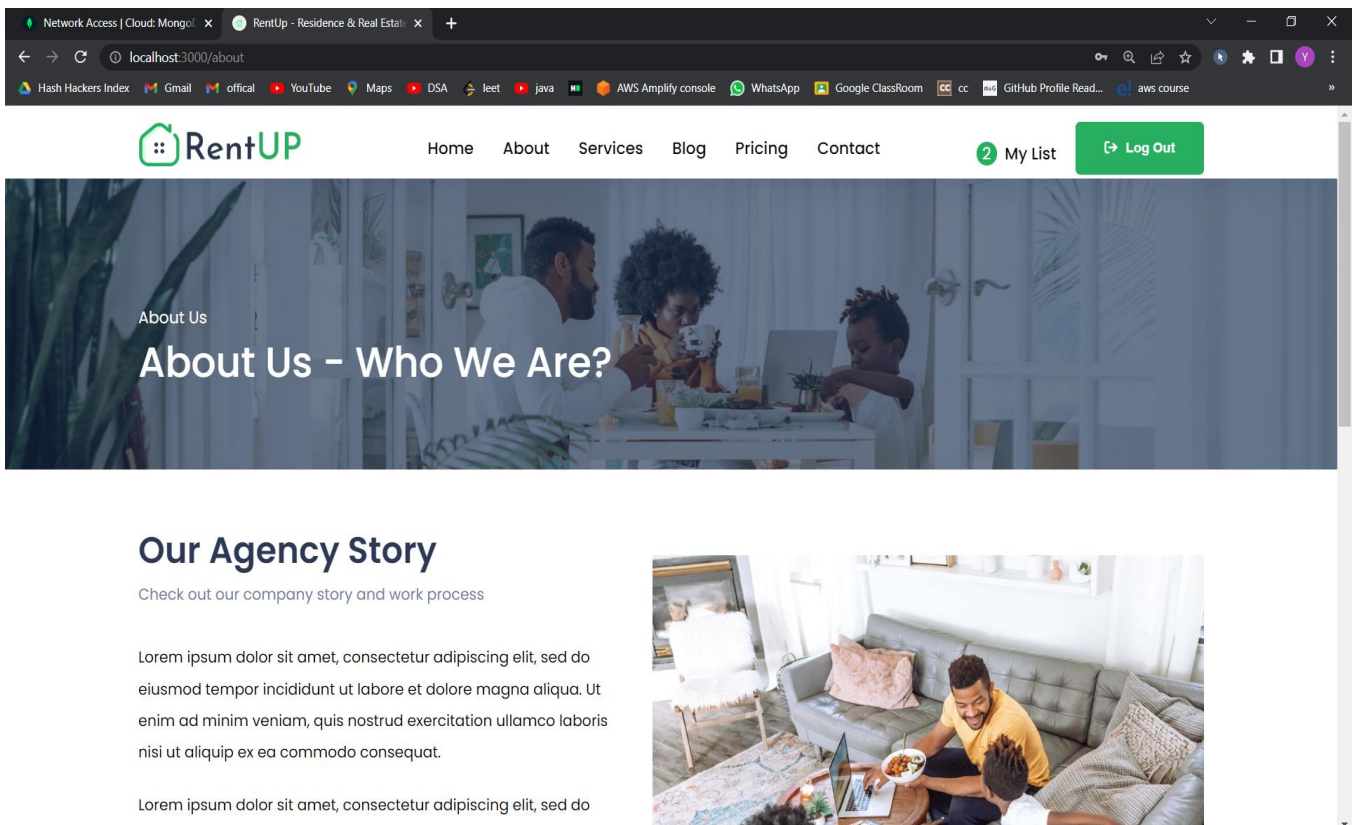
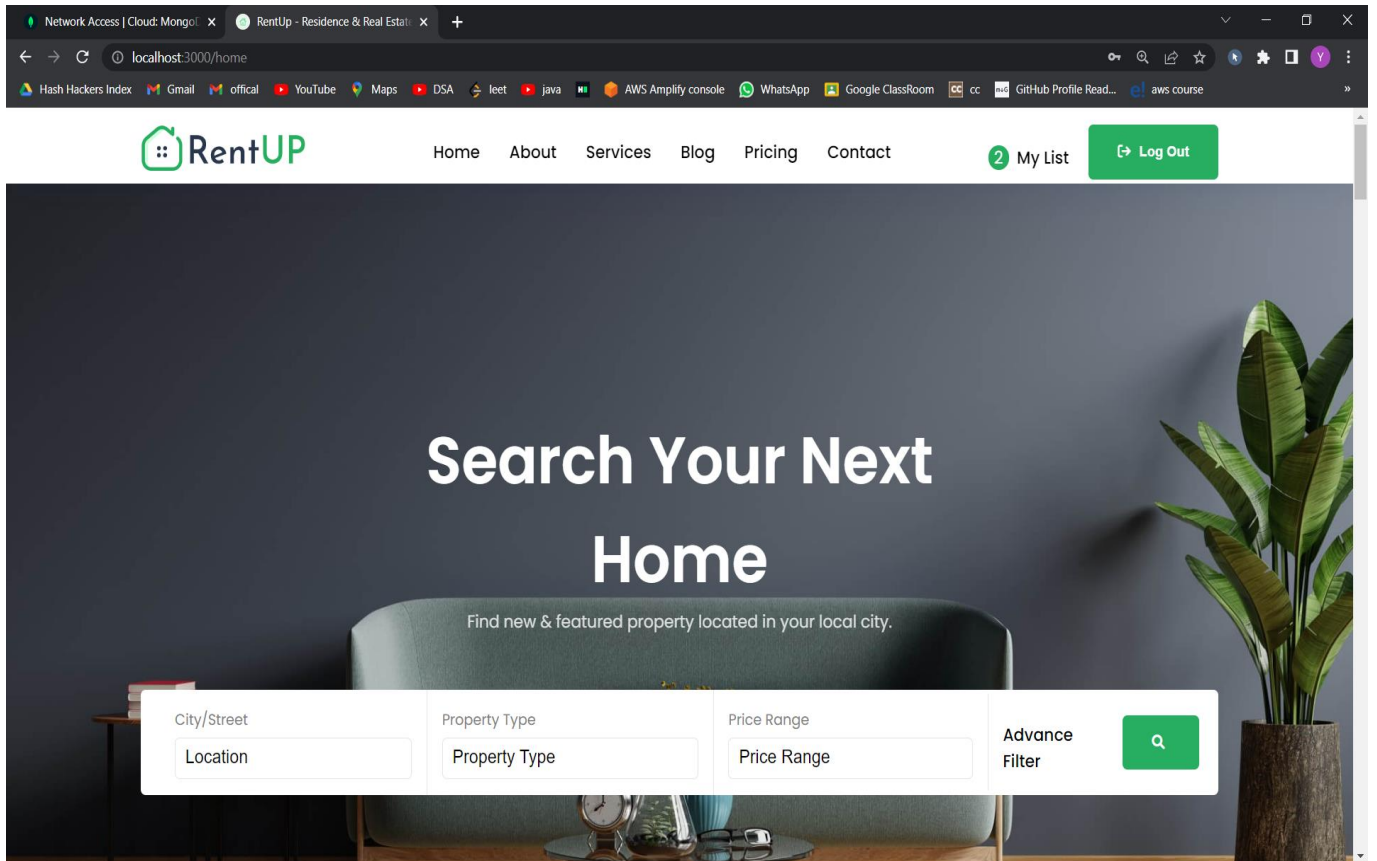
Sign Up

Login to Your Account

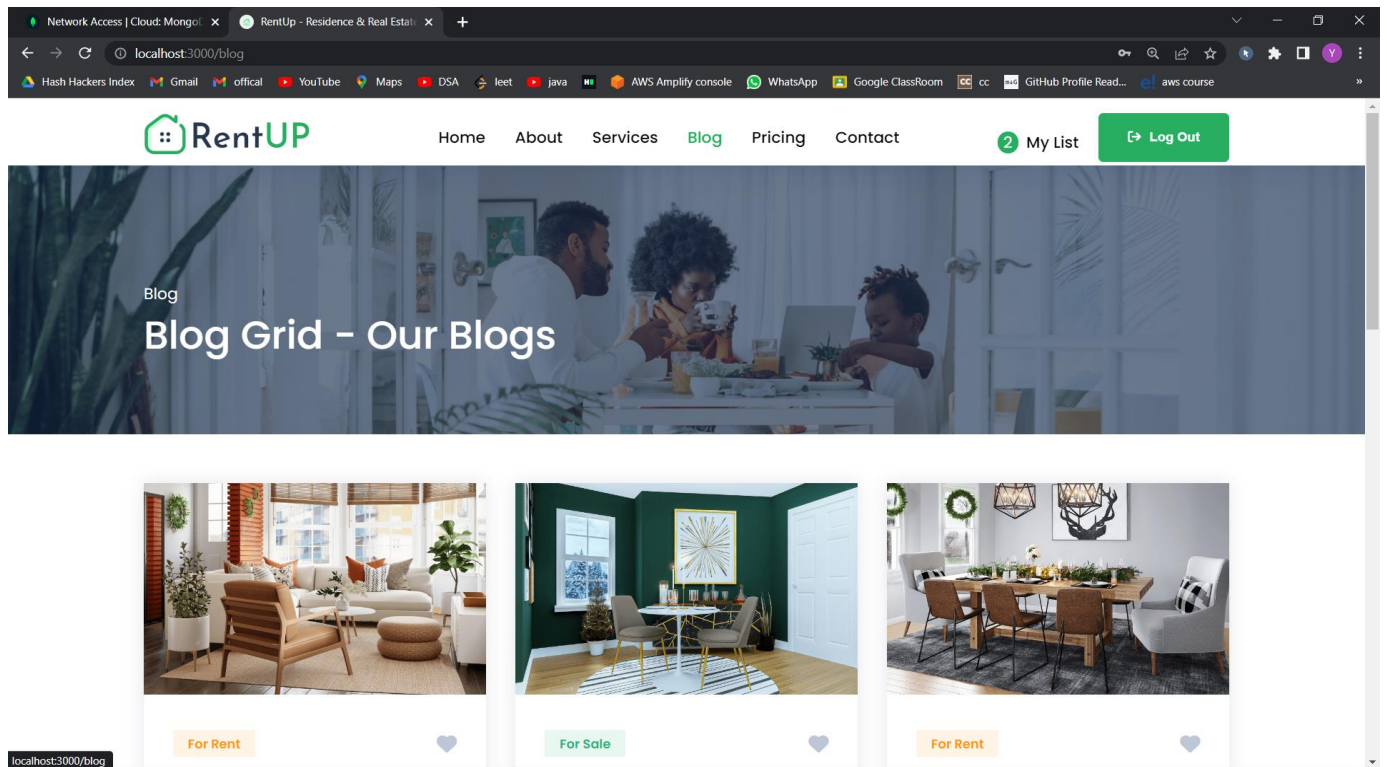
Sign In

New Here ?

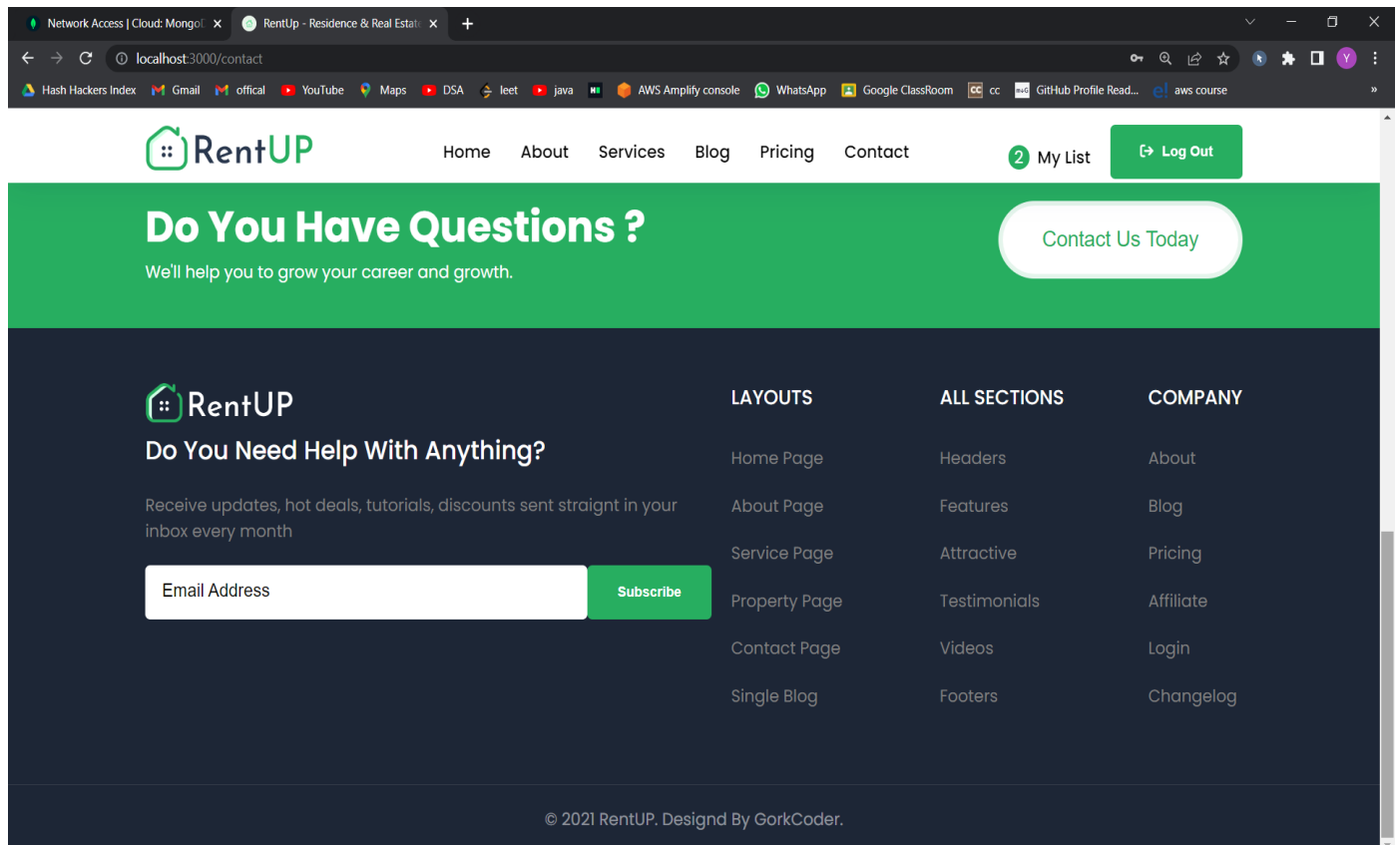
HOME PAGE:



BLOG PAGE:



FOOTER:



RECENTLY LISTED PROPERTIES:

Network Access | Cloud: Mongo...RentUp - Residence & Real Estate | +

localhost:3000/home

Hash Hackers Index | Gmail | official | YouTube | Maps | DSA | leet | java | AWS Amplify console | WhatsApp | Google Classroom | cc | GitHub Profile Read... | aws course

Home | About | Services | Blog | Pricing | Contact

2 My List | Log Out

Recent Property Listed

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam.

For Rent

Red Carpet Real Estate

210 Zirak Road, Canada

\$3,700 /sqft Apartment

For Sale

Fairmount Properties

5698 Zirak Road, NewYork

\$9,750 /sqft Condos

For Rent

The Real Estate Corner

5624 Mooker Market, USA

\$5,860 /sqft Offices

USERS IN DATABASE:

Data | Cloud: MongoDB Cloud | RentUp - Residence & Real Estate | +

cloud.mongodb.com/v2/64478e3ebec50e2e757bfa10#/metrics/replicaSet/64478eedbc095d2e110849b0/explorer/test/users/find

Hash Hackers Index | Gmail | official | YouTube | Maps | DSA | leet | java | AWS Amplify console | WhatsApp | Google Classroom | cc | GitHub Profile Read... | aws course

Atlas | YUGAL's Org... | Access Manager | Billing | All Clusters | Get Help | YUGAL

Project 0 | Data Services | App Services | Charts

DEPLOYMENT | Database | Data Lake | SERVICES | Triggers | Data API | Data Federation | Search | SECURITY | Backup | Database Access | Network Access | Advanced | Goto

+ Create Database

Search Namespaces

test | users

test.users

STORAGE SIZE: 36KB | LOGICAL DATA SIZE: 1.05KB | TOTAL DOCUMENTS: 6 | INDEXES TOTAL SIZE: 36KB

Find | Indexes | Schema Anti-Patterns | Aggregation | Search Indexes

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

QUERY RESULTS: 1-6 OF 6

_id: ObjectId('644814ece608e6844119eaac')

firstName: "yugal"

lastName: "Gautam"

email: "yugalgautam2002@gmail.com"

password: "\$2b\$10\$6.neHu11DnPSEYQNMFC2ems4.2terEvA6QR50MNNQxuwimhJ2a5"

__v: 0

_id: ObjectId('6448aa87763a85abc10d6c2e')

firstName: "gauri"

lastName: "agrawal"

email: "gauri@gmail.com"

password: "\$2b\$10\$KNo9RAD/xYkMx5M.FVduXu.nm6ETbWhaLCx6UgxXCKYb/xHE6PkNy"

__v: 0

System Status: All Good

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Conclusion

In conclusion, this website will help real estate professional or agency to establish a strong online presence and attract potential clients. With a user-friendly interface, responsive design, and informative content, a real estate website can serve as a valuable tool for showcasing properties, providing important information to buyers and sellers, and generating leads. By incorporating features such as property listings, search functionality, mortgage calculators, and contact forms, a well-designed real estate website can enhance the overall customer experience and streamline the buying or selling process. Additionally, leveraging social media integration, SEO optimization, and mobile responsiveness can further amplify the website's reach and visibility. Whether you're a real estate agent, broker, or investor, a well-executed real estate website can be a powerful marketing tool in today's digital age. Invest in a professional website to establish your online presence, build credibility, and grow your real estate business.