Real Estate Site Project Documentation

Internship Provider: CodewithbismiAllah

Internship Role: Frontend Web Developer

Technology Utilized:

- HTML
- CSS
- JavaScript

FrameWork React JS

Integrated Development Environment(IDE): Visual Studio Code

Version Control System: GitHub

Submitted By:

Name: Kanza Yasir

University: NFC-IET Multan

Semester: 5th

Submission Date: 28/09/24

Project Title: Real Estate Site Project

Project Documentation:

1. Project Overview:

The Real Estate Site is a dynamic web application developed using React.js, HTML, CSS, and JavaScript. The project aims to create a modern platform for users to explore, buy, and sell properties. This application features an engaging user interface that enhances the overall experience of navigating the real estate market.

1.1 Purpose

The primary goal of this project is to provide a user-friendly interface that allows visitors to browse property listings, filter searches based on criteria, and access detailed information about each property. The application emphasizes ease of use and a seamless experience, catering to both buyers and sellers.

1.2 Key Features

- **Responsive User Interface:** A clean and intuitive UI designed to be fully responsive across various devices, ensuring accessibility for all users.
- **Property Search and Filtering:** Advanced search functionality enabling users to filter properties by location, price range, type, and other relevant criteria.
- **Dynamic Listings:** Real-time updates of property listings to provide users with the latest available properties.
- **Agent Profiles:** Dedicated profiles for real estate agents, allowing users to view their credentials, listings, and contact information, facilitating direct communication and engagement.

2. Installation and Setup

2.1 Prerequisites

Ensure that the following software and tools are installed on your development machine:

- **Node.js:** A JavaScript runtime necessary for running the development server and building your React application.
- **npm or Yarn:** Package managers for installing and managing project dependencies.
- **Visual Studio Code:** A recommended code editor for developing and managing your React application

2.2 Installing Dependencies

Install the project dependencies using either npm or Yarn:

Using npm: `npm install`

Using yarn: `yarn install`

2.3 Running the Project

To start the development server and launch the React application, use one of the following commands:

Using npm: `npm start`

Using yarn: `yarn start`

This command will start the development server, and the application will be accessible at http://localhost:3000.

2.4 Development and Version Control

- **Development Server:** The development server supports hot module replacement, allowing for real-time updates as you modify the source code.
- **Version Control:** Git is utilized for version control. Commit your changes regularly and push to the repository on GitHub to maintain version history and enable collaboration.

3. Troubleshooting

If you encounter issues during development, consider the following steps:

- **Check Console Errors:** Review the browser console for any error messages that could provide insights into the issue.
- **Review Documentation:** Verify that you have followed all setup and configuration steps accurately.
- **Seek Help:** Consult the React documentation or reach out to the community or project maintainers for support.

Instership Tasks Documentation:

Task 1: Expand Real Estate Website

https://realestatebyumair.netlify.app/

Overview:

The objective of this task was to enhance the existing real estate website (https://realestatebyumair.netlify.app/) by integrating additional content sections to improve user engagement and information accessibility.

Sections Added:

1. **About Us**: A dedicated section providing an overview of the company, its mission, and vision.
2. **Projects**: A showcase of current and completed real estate projects, highlighting key features and specifications.
3. **Agent**: A profile section for real estate agents, detailing their qualifications and contact information.
4. **Services**: An outline of services offered, including buying, selling, and consultation.
5. **Listings**: A dynamic display of available properties, enabling users to filter and search listings effectively.

Task 2: Responsive Navbar Design

Overview:

Developed a responsive navigation bar to enhance site usability and accessibility across devices.

- **CSS Flexbox:** Employed for dynamic layout adjustments across mobile, tablet, and desktop screens.
- **Media Queries:** Integrated to ensure responsive design tailored to various viewport sizes.
- **JavaScript Interactivity:** Implemented to manage dropdown menus and enhance user experience.

Task 3: Implement a Contact Form

Overview:

This task involved adding a contact form to the real estate website to enable users to easily reach out for inquiries, enhancing user engagement and communication.

Client-side Validation:

- Implemented JavaScript to handle form validation and responsive for all types of screens.

Task 4: Project Showcase in the 'Projects' Section

Overview:

This documentation outlines the design and implementation of a project showcase section for a real estate website. The section is intended to display completed projects in an engaging format, utilizing either a grid or slider layout to effectively showcase images, titles, and descriptions.

Slider Format

- Projects displayed in a carousel/slider format.

Components

- **Image**: High-quality project images (aspect ratio maintained).
- **Title**: Project name or title prominently displayed.
- **Description**: Brief overview (1-2 sentences) highlighting key features and details.

Task 5: Agent Profiles Section

Overview:

This documentation outlines the design and implementation of an "Agent" section for a real estate website. The section is designed to display profiles of real estate agents in a visually appealing format, incorporating hover effects and modal pop-ups for additional information.

Layout:

- Each agent's profile is presented in a card format.
- The card includes the following elements:
  - Photo:
  - Name:
  - Short Bio:

Components:

- Agent Card:
- Hover Effects:
- Modal Pop-up:

Task 6: Create a Services Section

Overview:

This documentation outlines the design and implementation of a "Services" section for a real estate website. The section highlights the various services offered by the business, utilizing icons and brief descriptions for each service to enhance clarity and engagement.

Layout

- Each service is presented in a card format.
- The card includes the following elements:
    - Icon:
    - Service Title:

- Description:
- **Components**
    - Service Card:
    - Icons:
- Responsive Design

Task 7: Real Estate Listings Page with Filters

Overview:

This documentation outlines the implementation of a property listings page designed to allow users to filter real estate listings by price, location, and type. The page dynamically updates results without requiring a page refresh, providing a seamless user experience.

Features

- Dynamic Filtering
- Property Listings
- Responsive Design

Technologies Used:

- **JavaScript**: For implementing dynamic filtering functionality.
- **AJAX**: For fetching and displaying filtered results without refreshing the page.
- **JSON**: For property data storage and retrieval.

Task 8: Add a Testimonials Section

Overview:

This documentation details the implementation of a testimonials section for a website. The section features customer feedback presented in a visually appealing carousel format, including customer photos and short quotes. This section aims to enhance user trust and credibility.

Features

- Carousel Layout:
- Customer Photos:
- Short Feedback Quotes:

Task 9: Smooth Scrolling Implementation

Overview:

To create a smooth scrolling effect when users click on navigation links that lead to different sections of the webpage.

Task 10: Performance Optimization

Overview:

Improve the website's loading times by optimizing images, minimizing CSS and JavaScript files.

Image Compression Tools Used:

- Tools like TinyPNG, ImageOptim, or Kraken.io can significantly reduce image file sizes without losing quality.

Minimize CSS and JavaScript Files

1. **Minification Tools**:
    - Use tools such as CSSNano for CSS and Terser for JavaScript to remove whitespace, comments, and other unnecessary characters.

Deploying the Real Estate Site Project on GitHub Pages

This document outlines the process of deploying the completed real estate site to GitHub Pages. This deployment ensures that all interactive elements, such as property listings, image galleries, and contact forms, function seamlessly after deployment.

2. Prerequisites

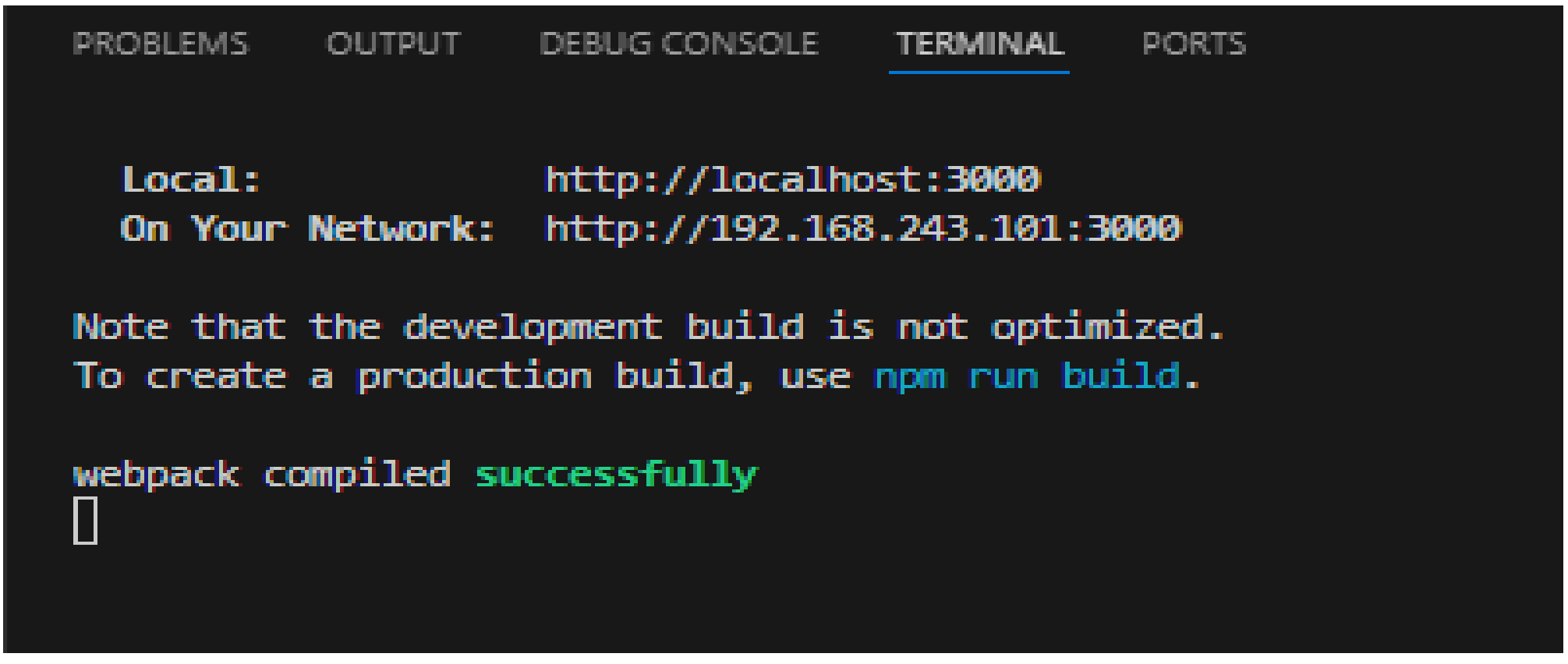
- Completed real estate site project with all features (property listings, image galleries, contact forms, etc.).
- A GitHub account and a repository created for the project.
- Node.js and npm installed on your development machine (if using a build tool like Create React App).

3. Deployment

Build your project (in framework like React): npm run build

Successful Build of Real Estate Site

The project has been built successfully with no errors or warnings, indicating that it is ready for deployment.

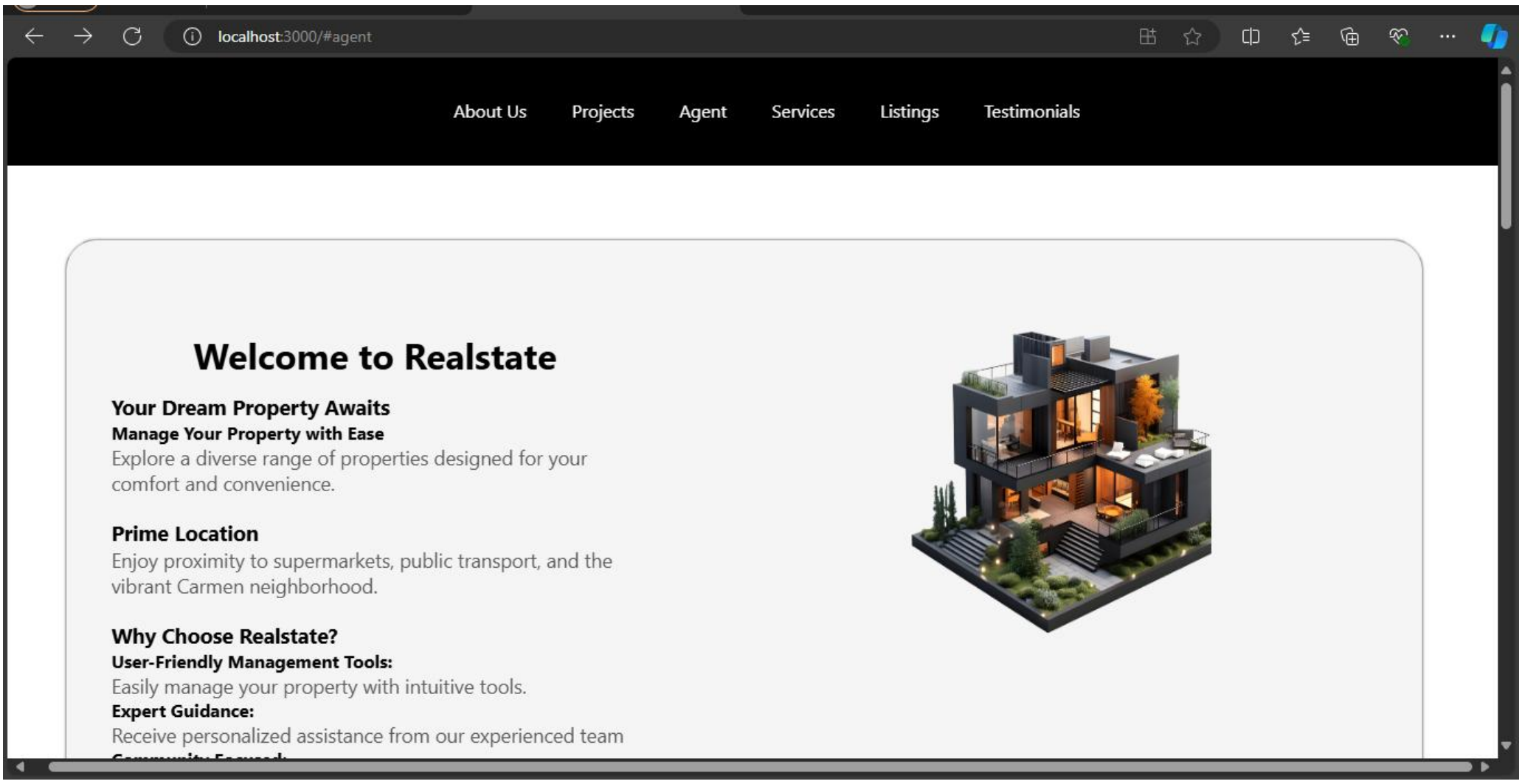


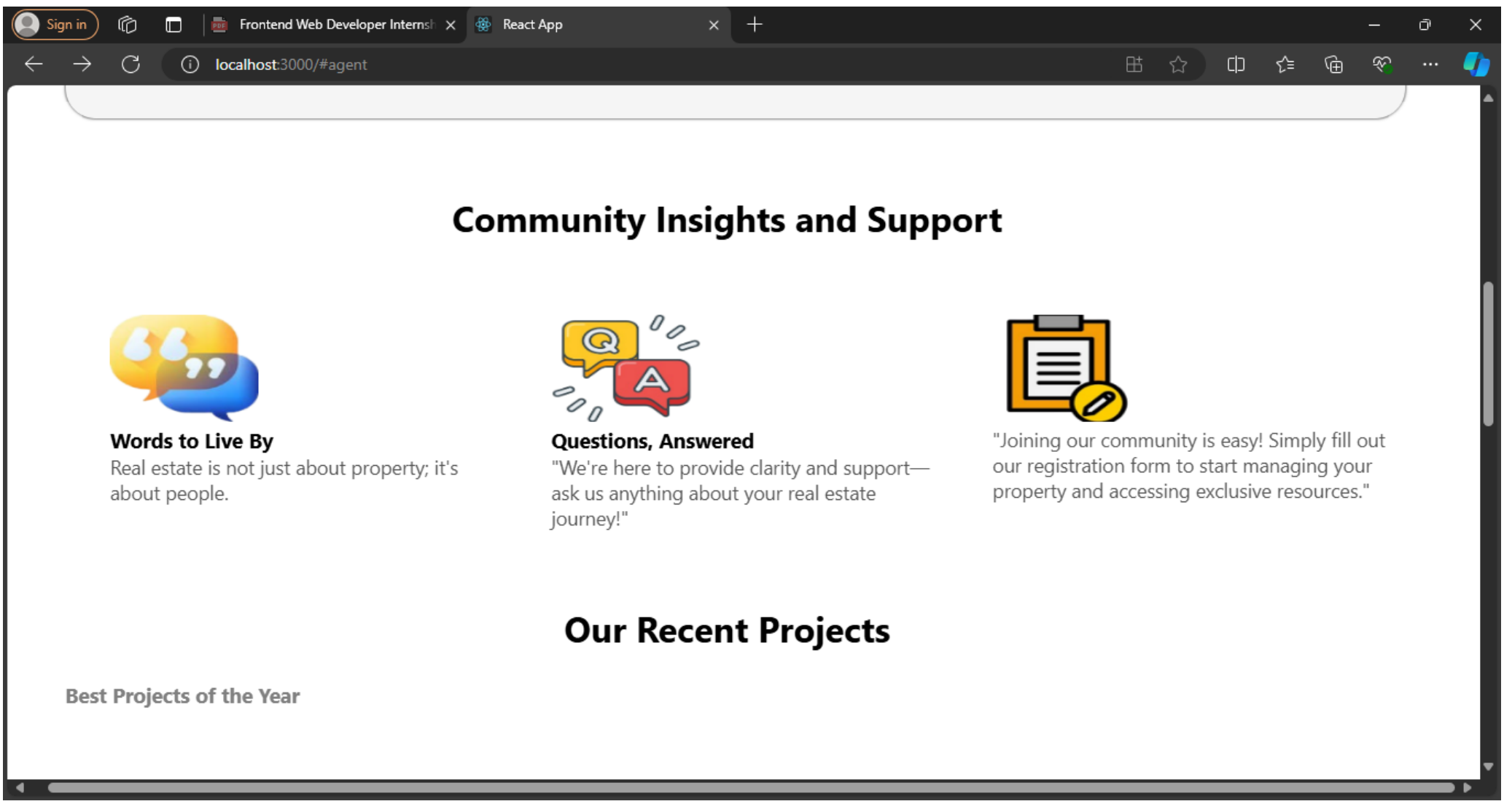
Screenshots & Descriptions

1: Desktop Screenshots

Description:

The homepage of the Real Estate Site features an inviting header with easy-to-navigate links, a prominent hero section showcasing featured properties, and sections for property listings, market insights, and client testimonials. The design is fully responsive, providing a seamless user experience across various devices. Users can easily browse listings, view property details, and access important information, making it an effective platform for both buyers and sellers.





Sign in | Frontend Web Developer Intern | React App

localhost:3000/#agent

Our Recent Projects

Best Projects of the Year

Estate Brokerage Services

At Real Estate, we specialize in making the transfer of real estate smooth and efficient.Our experienced team is dedicated to providing exceptional service and expert guidance throughout every step of the process.

Get Started Today!

Whether you're buying or selling, we're here to help.

Book Now

Our Expertise:

Residential Properties
Commercial Real Estate
Property Management
Investment Opportunities

Contact Us

Name:

Email:

Message:

Submit

About Us

We are dedicated to helping you find your dream home.

Contact

Email: info@realestate.com
Phone: (123) 456-7890

Quick Links

Properties
About Us
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localhost:3000/about

About Us

Welcome to Real Estate Company, where your property dreams come true. Since our establishment in 2012, we have been dedicated to delivering exceptional service and expert guidance in the real estate market.

Our Mission

We aim to simplify the buying, selling, and investing processes by providing personalized solutions tailored to your unique needs.

Our Values

- **Integrity:** Honest and transparent communication to build lasting trust.
- **Excellence:** A commitment to quality and meticulous attention to detail.
- **Innovation:** Embracing new technologies and trends for optimal results.

Our Team

Our team comprises seasoned real estate professionals dedicated to providing the highest level of service.

Our Achievements

With numerous successful projects and accolades, we pride ourselves on innovative designs and outstanding client satisfaction.

Get in Touch

Whether you're looking to buy, sell, or invest, we're here to help you every step of the way.

Sign in | React App

localhost:3000/projects

Our Completed Projects since 12 - 24

At Real Estate Company, we take pride in delivering exceptional real estate solutions that reflect our commitment to quality and professionalism. Since 2022, we have successfully completed a diverse portfolio of projects that showcase our expertise and dedication to excellence.

Modern Villa

Description: A stunning modern villa featuring open spaces and large windows, perfect for enjoying the sunset.

Price: $1,200,000

Sign in | React App

localhost:3000/agent

Our Agents

John Doe
Expert in residential real estate with over 10 years of experience.

Jane Smith
Commercial real estate specialist focused on investment properties.

Mike Johnson
Luxury real estate agent with a passion for architecture and design.

Emily Davis
A dedicated real estate agent specializing in first-time homebuyers.

Sophia Brown
Experienced in both residential and commercial real estate, focusing on client satisfaction.

About Us
We are dedicated to helping you find your dream home.

Contact
Email: info@realestate.com
Phone: (123) 456-7890

Quick Links
Properties
About Us

Follow Us
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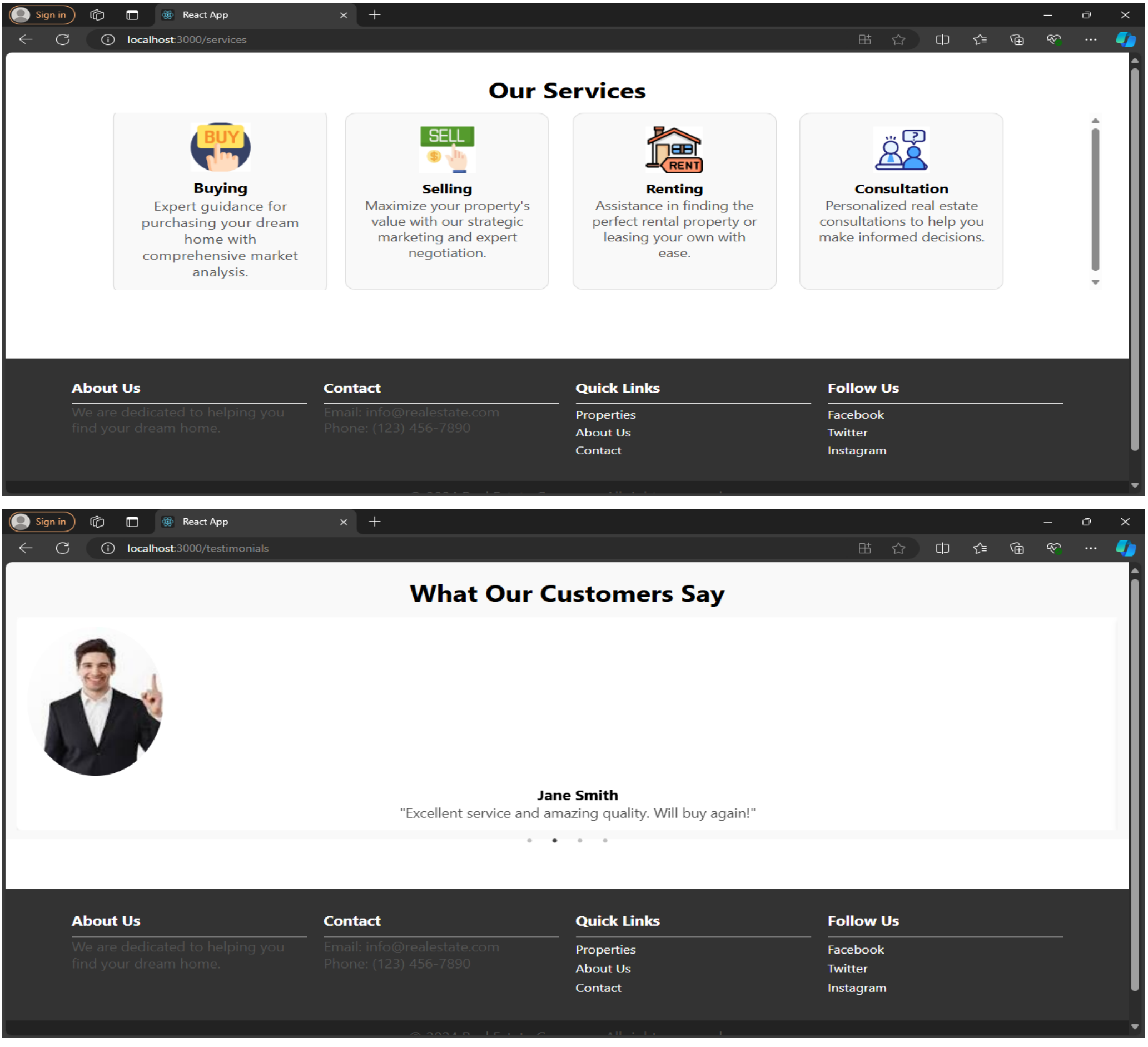
Sign in
React App
localhost:3000/services
Our Services
BUY
Buying
Expert guidance for purchasing your dream home with comprehensive market analysis.
SELL
Selling
Maximize your property's value with our strategic marketing and expert negotiation.
RENT
Renting
Assistance in finding the perfect rental property or leasing your own with ease.
Consultation
Personalized real estate consultations to help you make informed decisions.
About Us
We are dedicated to helping you find your dream home.
Contact
Email: info@realestate.com
Phone: (123) 456-7890
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Properties
About Us
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Follow Us
Facebook
Twitter
Instagram

Sign in
React App
localhost:3000/testimonials
What Our Customers Say
Jane Smith
"Excellent service and amazing quality. Will buy again!"
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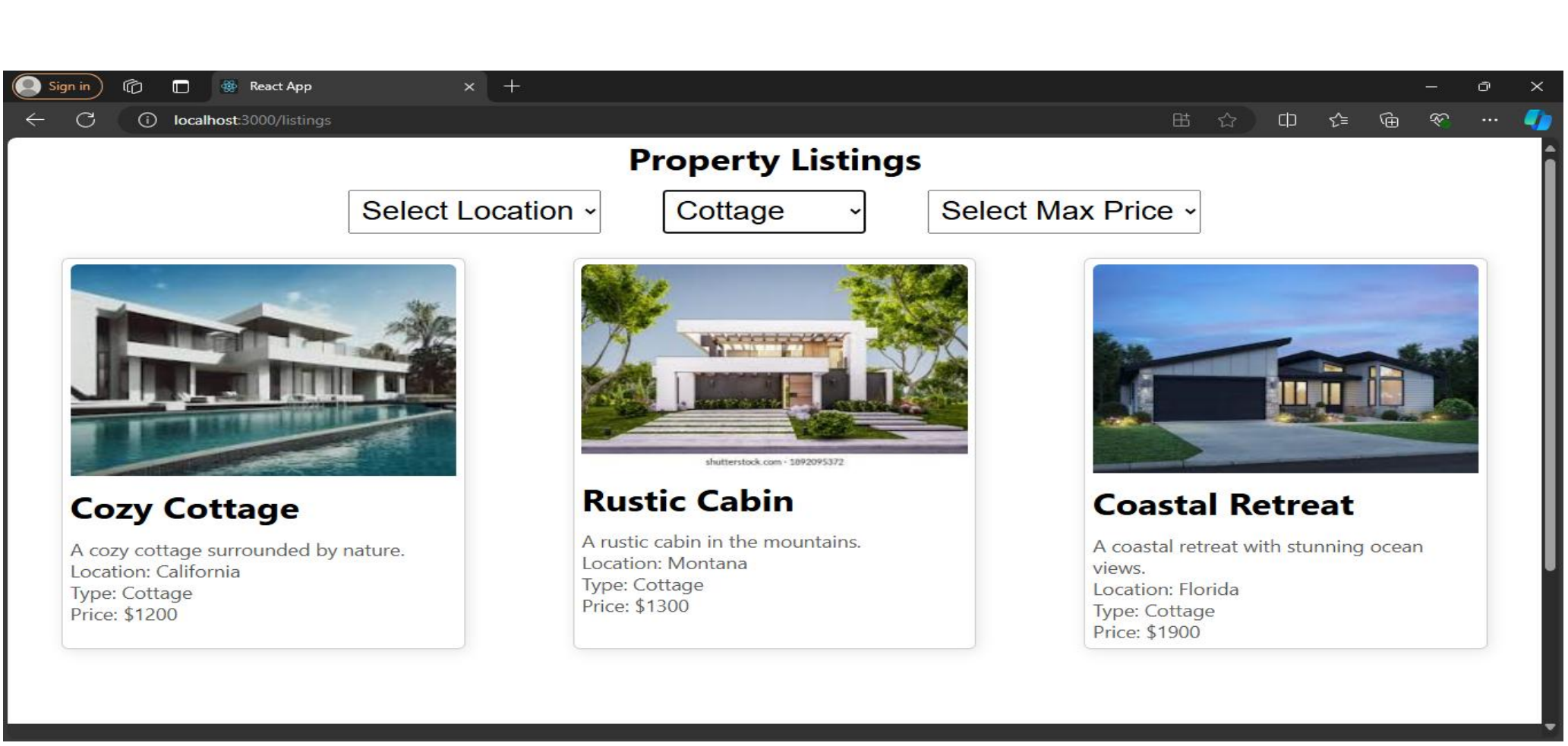
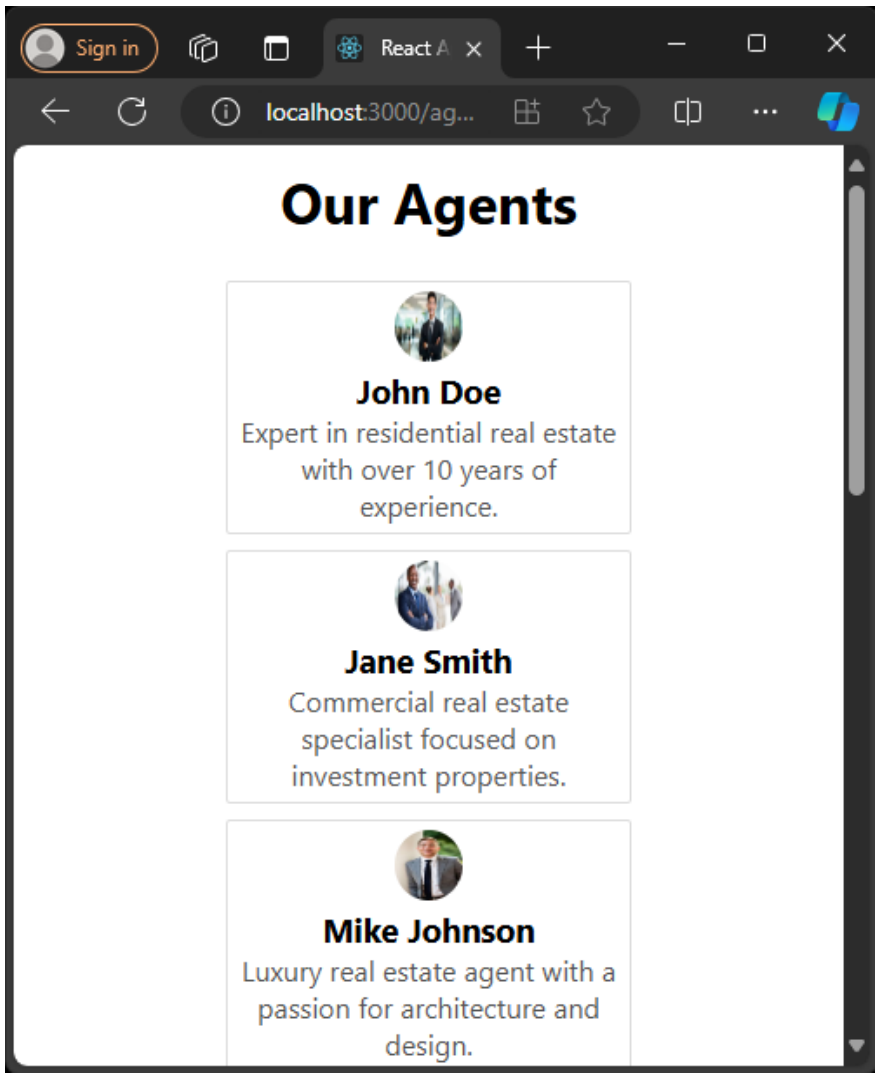
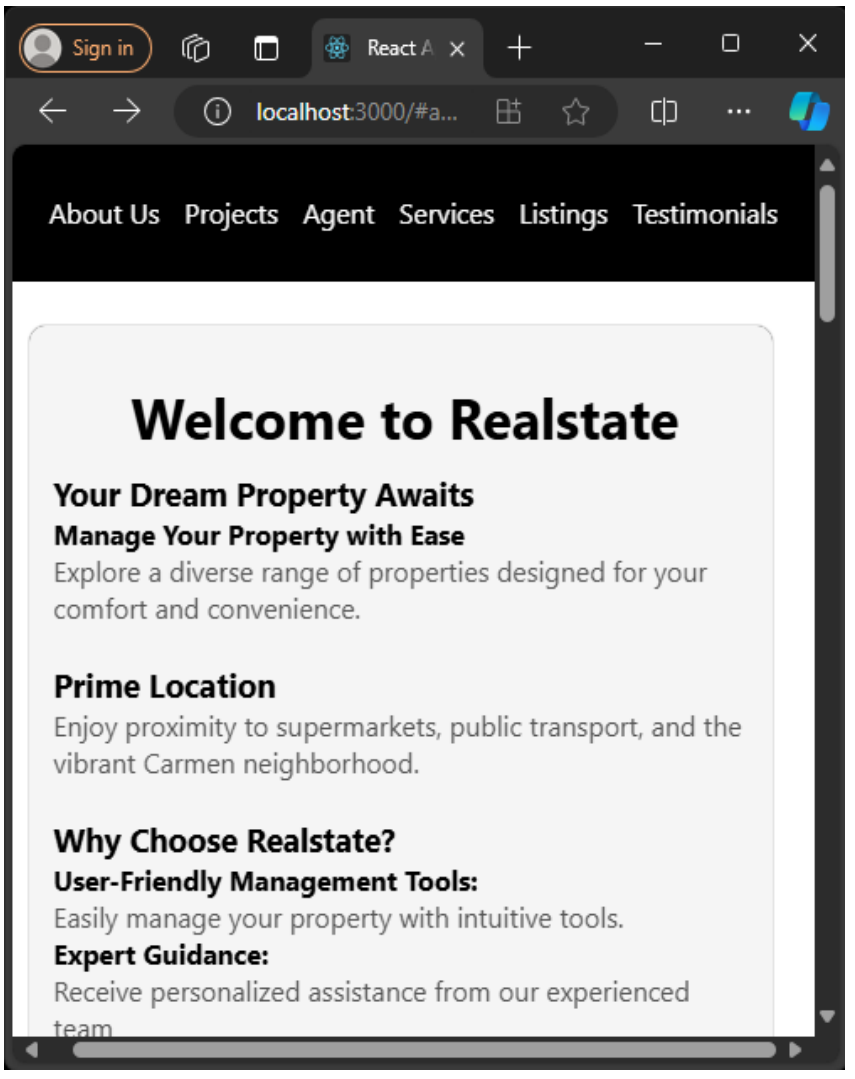

Sign in
React App
localhost:3000/listings
Property Listings
Select Location
Cottage
Select Max Price
Cozy Cottage
A cozy cottage surrounded by nature.
Location: California
Type: Cottage
Price: $1200
shutterstock.com · 1892095372
Rustic Cabin
A rustic cabin in the mountains.
Location: Montana
Type: Cottage
Price: $1300
Coastal Retreat
A coastal retreat with stunning ocean views.
Location: Florida
Type: Cottage
Price: $1900

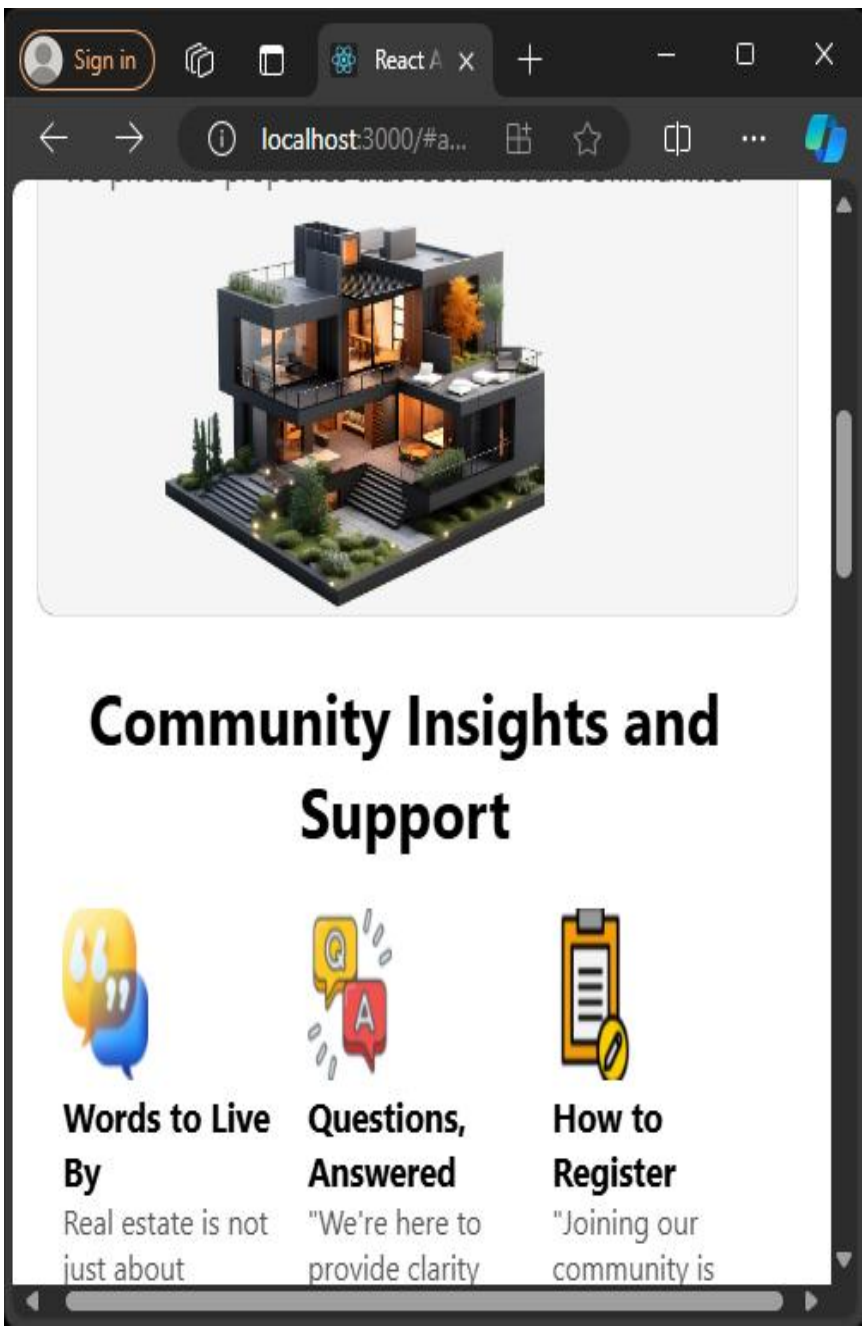
2. Mobile Screenshots

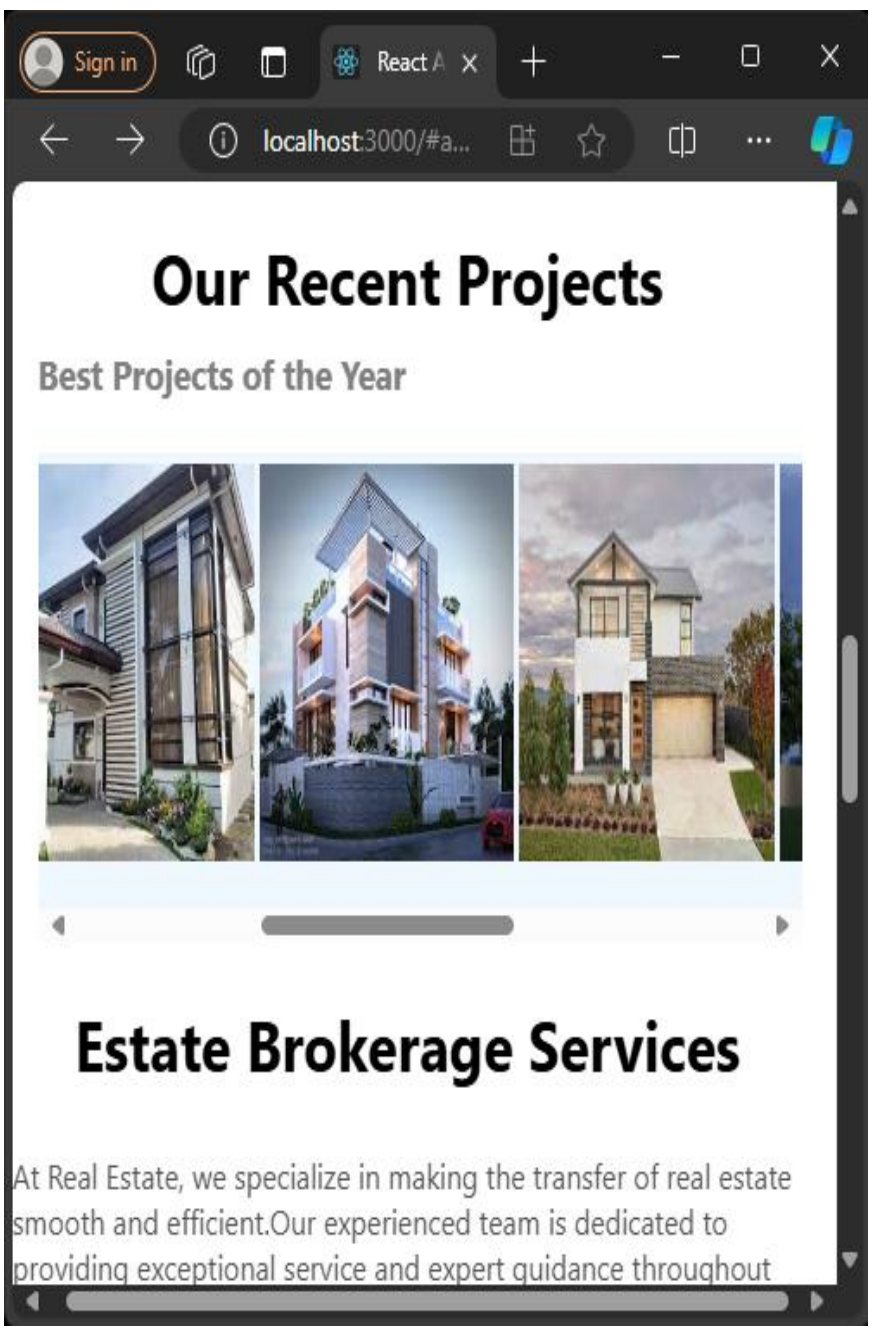
Description:

The responsive version of the Real Estate Site homepage is optimized for mobile devices. It features a simplified navigation menu and adjusts the layout to fit smaller screens while maintaining key functionalities. Users can easily browse property listings, access important information, and navigate the site seamlessly, ensuring an excellent user experience on the go.









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Property Management
Investment Opportunities

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Phone: (123) 456-7890

Quick Links

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Property Listings

Select Location | Select Type | Select Max Price

Luxury Apartment

A beautiful luxury apartment in the heart of New York.
Location: New York
Type: Apartment
Price: $1500

Cozy Cottage

A cozy cottage surrounded by nature.
Location: California
Type: Cottage
Price: $1200

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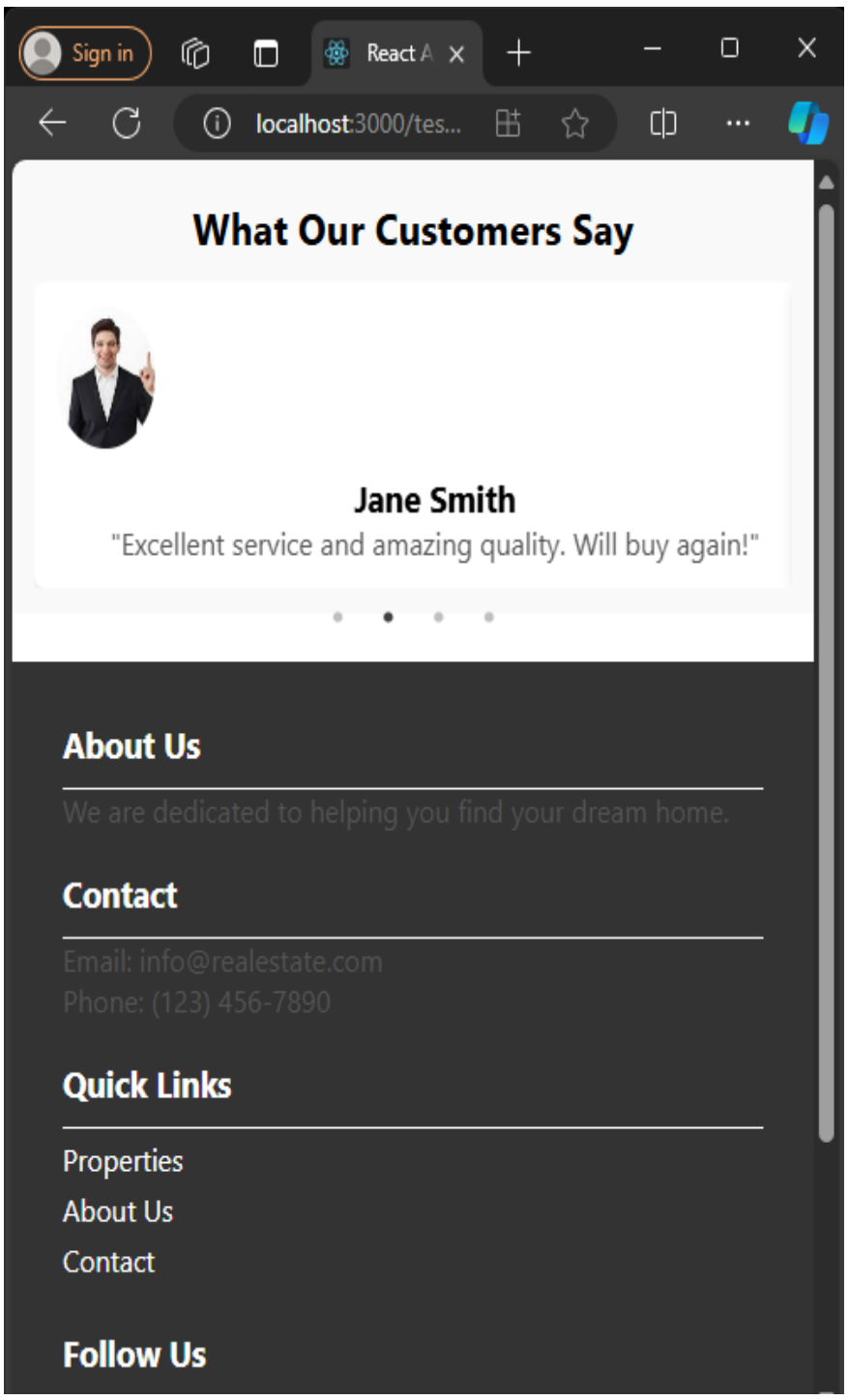

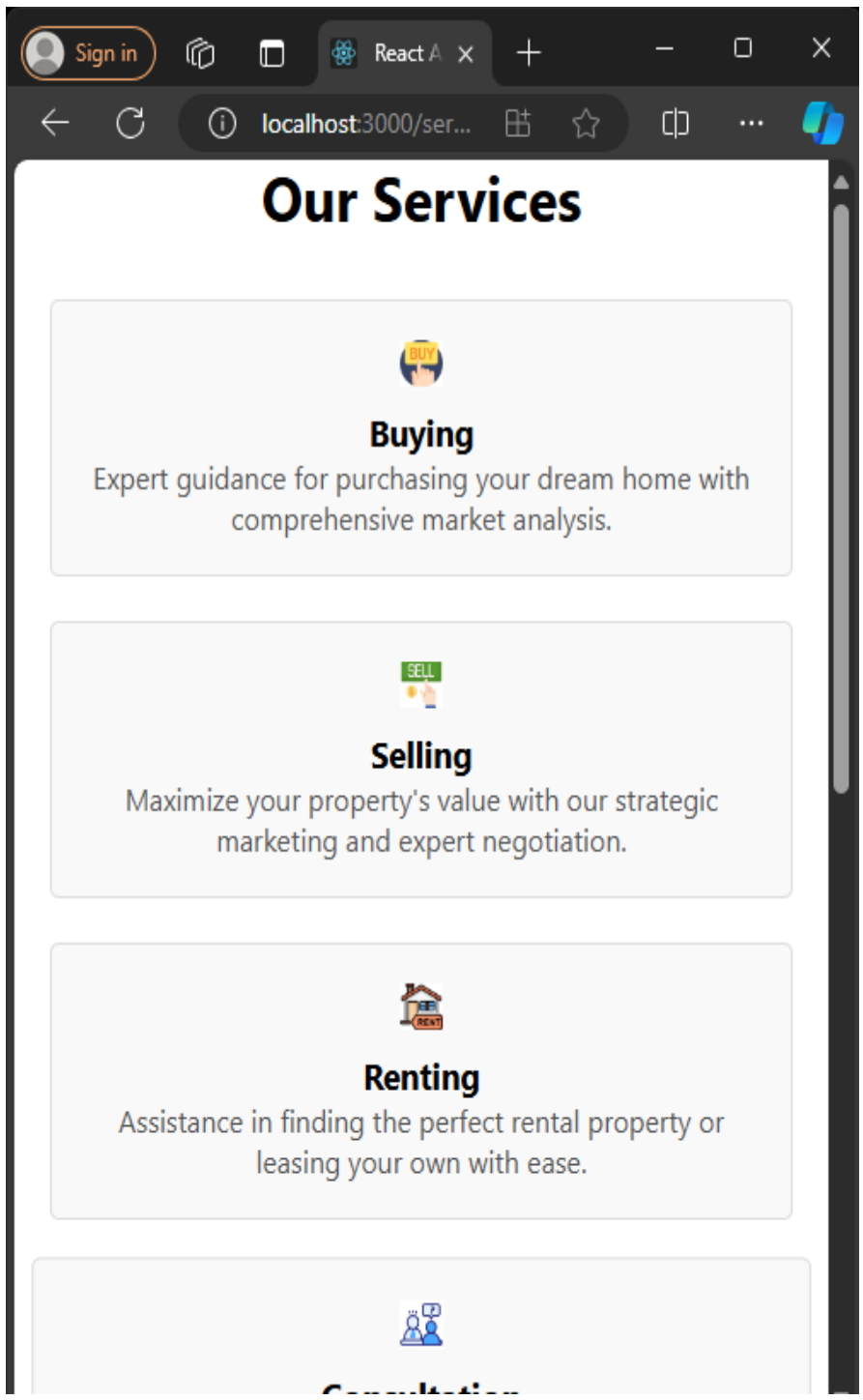

Verification:

Browser Testing:

The design has been verified across multiple browsers, including

Chrome, Firefox, Safari, and Edge

ensuring consistent functionality and appearance.

Device Testing:

Responsiveness has been tested on various devices, including desktops, tablets, and smartphones, confirming that the site maintains optimal usability and visual appeal across all screen sizes.