**React HOL-10**

**Define JSX**

**JSX** stands for **JavaScript XML**.  
It lets you write HTML-like code inside JavaScript, which makes it easier to create React elements.

**Example:**

<h1>Hello World</h1>

**Explain about ECMA script**

* **ECMAScript (ES)** is the official standard for JavaScript.
* Each version (like ES5, ES6) introduces new features.
* React apps commonly use **ES6** features like let, const, arrow functions, classes, etc.

**Explain React.createElement()**

React.createElement() is used by React to create virtual DOM nodes.

**Example:**

React.createElement('h1', null, 'Hello')

It’s the **JS equivalent** of writing:

<h1>Hello</h1>

**Explain how to create React nodes with JSX**

You create React nodes by writing JSX inside a component:

const element = <h2>Welcome to React</h2>;

This element is a **React node**.

**Define how to render JSX to DOM**

Use ReactDOM.render() to render JSX:

import ReactDOM from 'react-dom/client';

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

root.render(<App />);

This displays the JSX content in the HTML page.

**Explain how to use JavaScript expressions in JSX**

You can use JS expressions inside {} in JSX:

const name = "Alice";

return <h1>Hello, {name}!</h1>;

You can also use calculations: {5 + 10} or {items.length}.

**Explain how to use inline CSS in JSX**

Use the style attribute with **camelCase properties**:

<h2 style={{ color: 'blue', fontSize: '20px' }}>Styled Text</h2>

JSX uses a **JavaScript object** for inline styles.

**App.jsx**

import React from "react";

function App(){

const heading = <h1>Office Space Rentals</h1>;

const image = "https://images.unsplash.com/photo-1600585154340-be6161a56a0c?auto=format&fit=crop&w=900&q=80";

const office = {

name: "Regus Business Center",

rent: 55000,

address: "MG Road, Bangalore"

};

const officeList =[

{

name: "WeWork Kormangaala",

rent: 45000,

address: "Kormangala, Bangalore"

},

{

name: "IndiQube Orion",

rent: 72000,

address: "HSR Layout"

},

{

name: "Innov8 Coworking",

rent: 61000,

address: "Church Street, Bangalore"

},

{

name: "91Springboard",

rent: 39000,

address: "Indiranagar, Bangalore"

}

];

const getRentStyle = (rent) => ({

color: rent < 60000 ? "red" : "green",

fontWeight: "bold"

});

return(

<div style={{padding: "20px", fontFamily: "Arial"}}>

{heading}

<img src={image} alt="Office Space" style={{ width: "300px", margin: "20px 0" }} />

<h2>Featured Office:</h2>

<p><strong>Name: </strong>{office.name}</p>

<p><strong>Rent: </strong><span style={getRentStyle(office.rent)}>{office.rent}</span></p>

<p><strong>Address: </strong>{office.address}</p>

<h2>Other Available Office Spaces:</h2>

<ul>

{officeList.map((item, index)=>(

<li key={index} style={{marginBottom: "10px"}}>

<strong>Name: </strong> {item.name} <br />

<strong>Rent: </strong> <span style={getRentStyle(item.rent)}>{item.rent}</span> <br />

<strong>Address: </strong> {item.address}

</li>

))}

</ul>

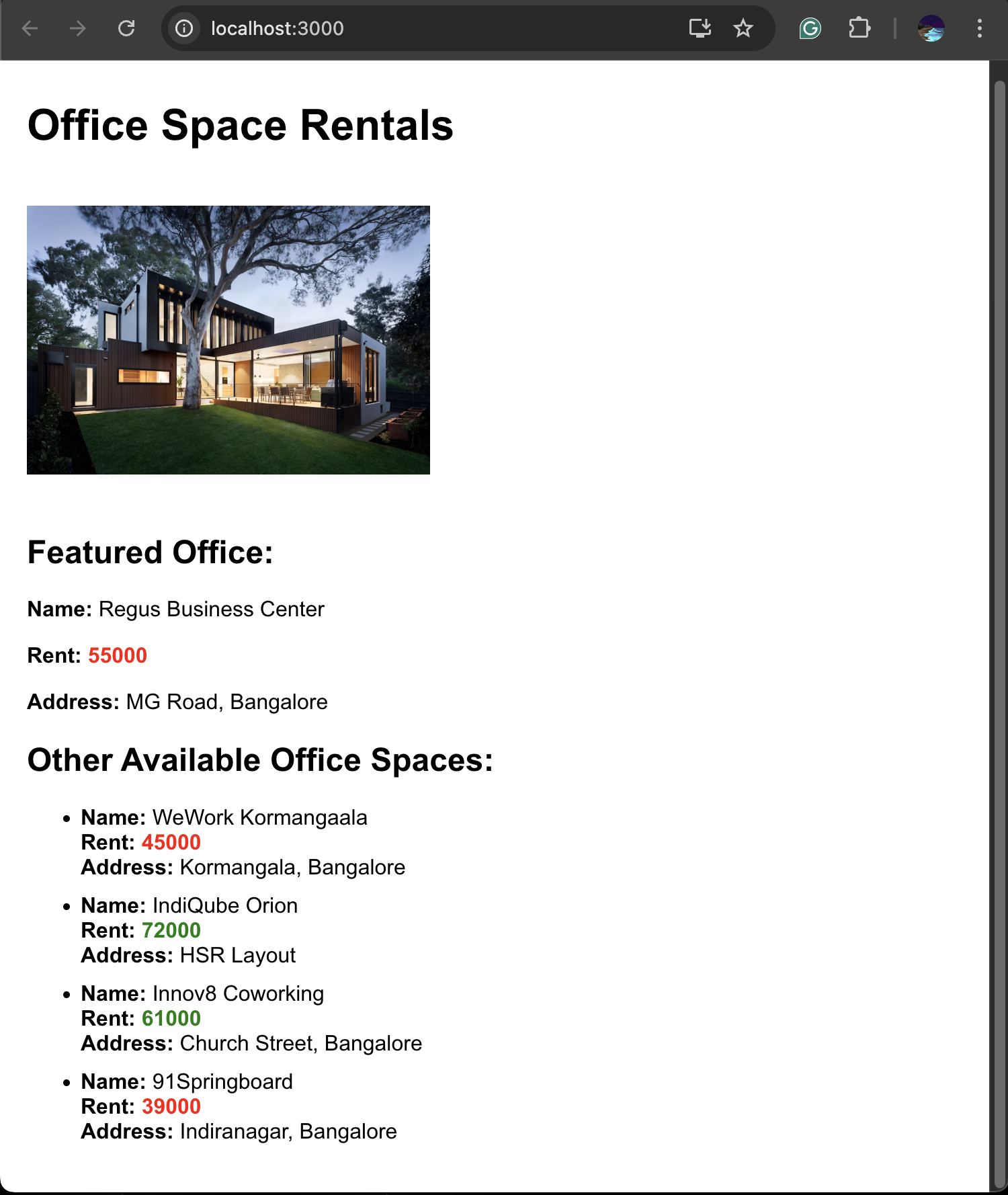
</div>

);

}

export default App;

**Output:**

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