ReactJS Hands-On Lab Report: Office Space Rental App

# Objectives

- Define JSX  
- Explain about ECMA Script  
- Explain React.createElement()  
- Explain how to create React nodes with JSX  
- Define how to render JSX to DOM  
- Explain how to use JavaScript expressions in JSX  
- Explain how to use inline CSS in JSX

# Lab Goals

In this hands-on lab, we will:  
- Use JSX syntax in React applications  
- Use inline CSS in JSX  
- Create elements, apply attributes, and render to DOM using JSX  
- Display dynamic content with JavaScript expressions  
- Apply inline styling conditionally based on data (rent amount)

# Prerequisites

- Node.js  
- NPM (comes with Node.js)  
- Visual Studio Code

# Step-by-Step Instructions

## 1. Create the React App

Open a terminal or command prompt and run the following commands:  
npx create-react-app officespacerentalapp  
cd officespacerentalapp  
code .

## 2. Clean Up Default Files

In the 'src' folder, delete unnecessary files:  
- App.test.js  
- logo.svg  
- reportWebVitals.js  
- setupTests.js

## 3. Modify App.js

import React from 'react';  
import './App.css';  
  
function App() {  
 const office = {  
 name: "SpaceHut Co-Working",  
 rent: 55000,  
 address: "Banjara Hills, Hyderabad"  
 };  
  
 const officeSpaces = [  
 { name: "SpaceHut Co-Working", rent: 55000, address: "Banjara Hills, Hyderabad" },  
 { name: "TechNest Spaces", rent: 62000, address: "Koramangala, Bangalore" },  
 { name: "WorkHub Arena", rent: 48000, address: "Salt Lake, Kolkata" },  
 { name: "HiveSpaces", rent: 72000, address: "Andheri, Mumbai" }  
 ];  
  
 const getRentStyle = (rent) => {  
 return {  
 color: rent > 60000 ? 'green' : 'red',  
 fontWeight: 'bold'  
 };  
 };  
  
 return (  
 <div className="App">  
 <h1>🏢 Office Space Rental App</h1>  
  
 <img   
 src="https://images.unsplash.com/photo-1591696205602-2f950c417cb9"   
 alt="Office Space"   
 width="500"   
 />  
  
 <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>All Available Spaces:</h2>  
 <ul>  
 {officeSpaces.map((space, index) => (  
 <li key={index}>  
 <p><strong>Name:</strong> {space.name}</p>  
 <p><strong>Rent:</strong> <span style={getRentStyle(space.rent)}>₹{space.rent}</span></p>  
 <p><strong>Address:</strong> {space.address}</p>  
 <hr />  
 </li>  
 ))}  
 </ul>  
 </div>  
 );  
}  
  
export default App;

## 4. Run the Application

In the terminal, run:  
npm start  
  
This will start the React development server and open the app at http://localhost:3000







