**Lab Objectives Breakdown**

**Concepts to Cover:**

| **Objective** | **How it's Applied** |
| --- | --- |
| **JSX** | Syntax used to write HTML inside React |
| **ECMAScript** | ES6+ features like let, const, arrow functions |
| **React.createElement()** | JSX compiles to this behind the scenes |
| **React nodes with JSX** | Use JSX to create page elements |
| **Rendering JSX to DOM** | Using ReactDOM.render() or component return |
| **JS expressions in JSX** | {} used to insert logic, variables |
| **Inline CSS in JSX** | Style object used directly in JSX elements |

**Lab Task**

**Prerequisites**

Make sure you have:

* Node.js
* npm
* VS Code

**1. Create the React App**

npx create-react-app officespacerentalapp

cd officespacerentalapp

npm start

**2. Edit App.js**

import React from 'react';

import './App.css';

import officeImage from './office.jpg'; // Put a sample image in `src` folder or use a URL

function App() {

const headingStyle = {

textAlign: 'center',

color: '#333',

};

const officeSpaces = [

{ name: 'Regus Space', rent: 45000, address: 'MG Road, Bengaluru' },

{ name: 'WeWork', rent: 72000, address: 'Indiranagar, Bengaluru' },

{ name: '91SpringBoard', rent: 59000, address: 'HSR Layout, Bengaluru' },

{ name: 'Awfis', rent: 80000, address: 'Koramangala, Bengaluru' },

];

return (

<div className="App">

{/\* JSX heading \*/}

<h1 style={headingStyle}>Office Space Rental App</h1>

{/\* Image attribute \*/}

<img src={officeImage} alt="Office Space" style={{ width: '50%', borderRadius: '10px' }} />

{/\* JSX loop and expressions \*/}

<div style={{ marginTop: '20px' }}>

{officeSpaces.map((office, index) => (

<div

key={index}

style={{

border: '1px solid #ddd',

margin: '10px',

padding: '10px',

borderRadius: '5px',

boxShadow: '0 0 5px rgba(0,0,0,0.1)',

background: '#f9f9f9',

}}

>

<h2>{office.name}</h2>

<p>

<strong>Rent:</strong>{' '}

<span

style={{

color: office.rent < 60000 ? 'red' : 'green',

fontWeight: 'bold',

}}

>

₹{office.rent}

</span>

</p>

<p>

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

</p>

</div>

))}

</div>

</div>

);

}

export default App;

**3. Add an Image**

* Save a placeholder image as office.jpg inside the src/ folder, or use a public image URL like:

**Summary of JSX Features Used**

| **Feature** | **Example** |
| --- | --- |
| **JSX Elements** | <h1>Office Space</h1> |
| **JS Expressions** | {office.name} |
| **Attributes in JSX** | <img src="..." alt="..." /> |
| **Inline CSS** | style={{ color: 'green' }} |
| **Conditional Rendering** | color: office.rent < 60000 ? 'red' : 'green' |
| **Array .map()** | Rendering list of office spaces |





