React-5

**1. Understanding the Need for Styling React Components**

Styling in React is essential to enhance the visual presentation, usability, and user experience of components. As React applications scale, organizing and applying consistent styles across reusable components ensures maintainability and professional appearance.

**Benefits:**

* Improves readability and user interaction.
* Enables component-level customization using modular styles.
* Enhances reusability and separation of concerns.

**2. Working with CSS Module and Inline Styles**

**CSS Modules:**

* CSS Modules allow the definition of scoped CSS rules that apply only to the component that imports them.
* Prevents style conflicts by creating unique class names.

**Inline Styles:**

* Defined directly in the component using the style attribute.
* Accepts a JavaScript object containing camelCased CSS properties.

**Hands-on Lab Instructions Summary:**

To style a React component for the Cohort Dashboard:

1. **Download and unzip the provided React application folder.**
2. **Navigate to the application directory via command prompt and restore node packages:**
3. npm install
4. **Open the project in Visual Studio Code.**
5. **Create a CSS module file named CohortDetails.module.css and define styles as follows:**

/\* CohortDetails.module.css \*/

.box {

width: 300px;

display: inline-block;

margin: 10px;

padding: 10px 20px;

border: 1px solid black;

border-radius: 10px;

}

dt {

font-weight: 500;

}

1. **Edit the cohort component (CohortDetails.js) to import and use the CSS Module:**

import React from 'react';

import styles from './CohortDetails.module.css';

function CohortDetails({ name, status }) {

const headingStyle = {

color: status === 'ongoing' ? 'green' : 'blue',

};

return (

<div className={styles.box}>

<h3 style={headingStyle}>{name}</h3>

<dl>

<dt>Status:</dt>

<dd>{status}</dd>

</dl>

</div>

);

}

export default CohortDetails;

1. **Ensure the component is properly rendered by the parent component (e.g., App.js):**

import React from 'react';

import CohortDetails from './CohortDetails';

function App() {

return (

<div>

<CohortDetails name="React Bootcamp" status="ongoing" />

<CohortDetails name="Java Track" status="completed" />

</div>

);

}

export default App;

1. **Start the application using the following command:**
2. npm start
3. **Open your browser and go to** http://localhost:3000.

The final result should display multiple cohort boxes styled with borders, padding, and color-coded headers based on status—green for "ongoing" and blue otherwise.