**Understanding the need for styling react component**

Styling is essential in React to define the look and feel of user interfaces. It controls how components appear on the screen—determining layout, color, spacing, fonts, and responsiveness. Since React is component-based, styling should also be modular and reusable. Without proper styling, even functional components can look inconsistent or unusable. By applying styles in a structured way (e.g., using scoped CSS Modules or inline styles), developers can avoid global style conflicts and make their components easier to maintain, debug, and scale in larger applications.

**Working with CSS Module and inline styles**

**CSS Modules**

CSS Modules allow developers to write CSS that is scoped locally to the component, preventing conflicts with other styles in the app. A CSS Module file typically ends with .module.css.

**Example:**

/\* Button.module.css \*/

.btn {

background-color: blue;

color: white;

padding: 10px;

}

// Button.js

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

function Button() {

return <button className={styles.btn}>Click Me</button>;

}

Here, styles.btn refers to the btn class defined in the module, and it’s scoped to this component only.

**Inline Styles**

Inline styles are JavaScript objects that define style properties using camelCase keys. These styles are applied directly to JSX elements using the style attribute.

**Example:**

function Box() {

const boxStyle = {

backgroundColor: 'lightgreen',

padding: '20px',

border: '1px solid #ccc'

};

return <div style={boxStyle}>This is a styled box</div>;

}

Inline styles are useful for dynamic styling and when styles are tied closely to component logic. However, they do not support pseudo-classes (like :hover) or media queries directly.

**My Academy team at Cognizant want to create a dashboard containing the details of ongoing and completed cohorts. A react application is created which displays the detail of the cohorts using react component. You are assigned the task of styling these react components.**

**Download and build the attached react application.**

**Index.js :-**

import React from 'react';

import ReactDOM from 'react-dom';

import './index.css';

import App from './App';

import reportWebVitals from './reportWebVitals';

ReactDOM.render(

  <React.StrictMode>

    <App />

  </React.StrictMode>,

  document.getElementById('root')

);

// If you want to start measuring performance in your app, pass a function

// to log results (for example: reportWebVitals(console.log))

// or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals

reportWebVitals();

**App.js :-**

import './App.css';

import { CohortsData } from './Cohort';

import CohortDetails from './CohortDetails';

function App() {

  return (

    <div>

      <h1>Cohorts Details</h1>

      <div className="container">

        {CohortsData.map((cohort, index) => (

          <CohortDetails key={index} cohort={cohort} />

        ))}

      </div>

    </div>

  );

}

export default App;

**Cohort.js :-**

class Cohort {

    constructor(cohortCode,

        startDate,

        technology,

        trainerName,

        coachName,

        currentStatus) {

        this.cohortCode = cohortCode;

        this.coachName = coachName;

        this.trainerName = trainerName;

        this.technology = technology;

        this.startDate = startDate;

        this.currentStatus = currentStatus;

    }

}

const CohortsData =[

    new Cohort('INTADMDF10','22-Feb-2022', '.NET FSD', 'Jojo Jose','Aathma', 'Scheduled'),

    new Cohort('ADM21JF014','10-Sep-2021', 'Java FSD', 'Elisa Smith','Apoorv', 'Ongoing'),

    new Cohort('CDBJF21025','24-Dec-2021', 'Java FSD', 'John Doe','Aathma', 'Ongoing'),

    new Cohort('INTADMJF12','22-Feb-2022', 'Java FSD', 'To Be Assigned','Ibrahim', 'Scheduled'),

    new Cohort('CDE22JF011','24-Dec-2021', 'Java FSD', 'Emma Swan','Apoorv', 'Ongoing'),

    new Cohort('INTADMDF09','22-Feb-2022', 'Dataware Housing', 'Babjee Rao','Aathma', 'Scheduled'),

    new Cohort('ADM22DF001','10-Sep-2021', '.NET FSD', 'Marie Curie','Ibrahim', 'Ongoing'),

];

export {Cohort, CohortsData};

**CohortDetails.js :-**

// CohortDetails.js

import React from 'react';

import './App.css'; // or use a separate CSS if preferred

const CohortDetails = ({ cohort }) => {

  const isOngoing = cohort.currentStatus.toLowerCase() === 'ongoing';

  const cardClass = isOngoing ? 'card green' : 'card blue';

  return (

    <div className={cardClass}>

      <h3>

        {cohort.cohortCode} - {cohort.technology}

      </h3>

      <div><span className="detail-label">Started On:</span> {cohort.startDate}</div>

      <div><span className="detail-label">Current Status:</span> {cohort.currentStatus}</div>

      <div><span className="detail-label">Coach:</span> {cohort.coachName}</div>

      <div><span className="detail-label">Trainer:</span> {cohort.trainerName}</div>

    </div>

  );

};

export default CohortDetails;

**CohortDetails.modeule.css :-**

.box {

  width: 300px;

  display: inline-block;

  margin: 10px;

  padding: 10px 20px;

  border: 1px solid black;

  border-radius: 10px;

  vertical-align: top;

}

dt {

  font-weight: 500;

}

.card-title {

  font-weight: bold;

  font-size: 18px;

}

**App.css :-**

/\* App.css \*/

body {

  font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

  background-color: #fff;

  margin: 0;

  padding: 0;

}

h1 {

  font-size: 28px;

  font-weight: bold;

  padding: 20px;

}

.container {

  display: flex;

  flex-wrap: wrap;

  gap: 20px;

  padding: 0 20px 20px 20px;

}

.card {

  border: 1px solid #ccc;

  border-radius: 10px;

  width: 280px;

  padding: 20px;

  box-sizing: border-box;

  box-shadow: 0 0 4px rgba(0, 0, 0, 0.1);

}

.card h3 {

  margin: 0 0 15px 0;

  font-size: 16px;

  font-weight: bold;

}

.blue h3 {

  color: #0000cc;

}

.green h3 {

  color: #006400;

}

.detail-row {

  margin: 6px 0;

}

.label {

  font-weight: 600;

  display: inline-block;

  width: 120px;

}

.value {

  display: inline-block;

}

Output :-



