

5. ReactJS-HOL

Objectives

- Understanding the need for styling react component
- Working with CSS Module and inline styles

In this hands-on lab, you will learn how to:

- Style a react component
- Define styles using the CSS Module
- Apply styles to components using className and style properties

Prerequisites

The following is required to complete this hands-on lab:

- Node.js
- NPM
- Visual Studio Code

Notes

Estimated time to complete this lab: **30 minutes.**

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.



cohorttracker.zip

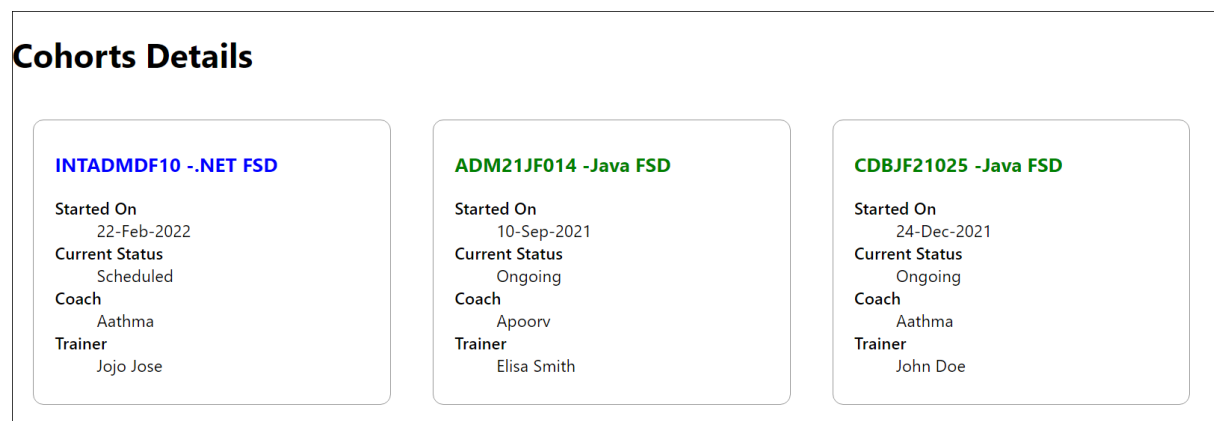
1. Unzip the react application in a folder
2. Open command prompt and switch to the react application folder

3. Restore the node packages using the following commands

```
C:\Windows\System32\cmd.exe
C:\CTS-NewHandsOns\ReactHandsOns\cohortstracker>npm install
```

Figure 1: Restore packages

4. Open the application using VS Code
5. Create a new CSS Module in a file called "CohortDetails.module.css"
6. Define a css class with the name as "box" with following properties
Width = 300px;
Display = inline block;
Overall 10px margin
Top and bottom padding as 10px
Left and right padding as 20px
1 px border in black color
A border radius of 10px
7. Define a css style for html <dt> element using tag selector. Set the font weight to 500.
8. Open the cohort details component and import the CSS Module
9. Apply the box class to the container div
10. Define the style for <h3> element to use "green" color font when cohort status is "ongoing" and "blue" color in all other scenarios.
11. Final result should look similar to the below image



1. Create a New React Application

Use the following command in your terminal to create a new React app named blogapp:

```
cd ***
```

```
npm install
```

2. Open the Project in VS Code

Code .

3. Create CSS Module

Inside src/, create a new file:

4. 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;  
}
```

```
JS App.js M # CohortDetails.module.css U X JS CohortDetails.js U
src > # CohortDetails.module.css > dt
1  .box {
2    width: 300px;
3    display: inline-block;
4    margin: 10px;
5    padding: 10px 20px;
6    border: 1px solid black;
7    border-radius: 10px;
8  }
9
10 dt {
11   font-weight: 500;
12 }
```

4.CohortDetails.js

```
import React from 'react';
```

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

```
const CohortDetails = ({ cohort }) => {
```

```
  const headingColor = cohort.status.toLowerCase() === 'ongoing' ? 'green' : 'blue';
```

```
  return (
```

```
    <div className={styles.box}>
```

```
      <h3 style={{ color: headingColor }}>{cohort.name}</h3>
```

```
      <dl>
```

```
        <dt>Started On</dt>
```

```
        <dd>{cohort.startDate}</dd>
```

```
        <dt>Current Status</dt>
```

```
        <dd>{cohort.status}</dd>
```

```
        <dt>Coach</dt>
```

```
        <dd>{cohort.coach}</dd>
```

```
        <dt>Trainer</dt>

        <dd>{cohort.trainer}</dd>

    </dl>

</div>

);

};

export default CohortDetails;
```

5. App.js

```
import React from 'react';

import CohortDetails from './CohortDetails';

const data = [

  {

    name: 'INTADMDF10 -.NET FSD',

    startDate: '22-Feb-2022',

    status: 'Scheduled',

    coach: 'Aathma',

    trainer: 'Jojo Jose',

  },

  {

    name: 'ADM21JF014 - Java FSD',

    startDate: '10-Sep-2021',

    status: 'Ongoing',

    coach: 'Apoorv',

    trainer: 'Elisa Smith',

  },

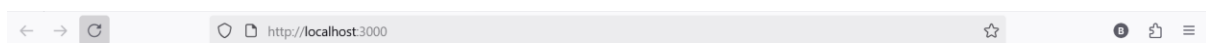
  {

    name: 'CDBJF21025 - Java FSD',
```

```
    startDate: '24-Dec-2021',  
    status: 'Ongoing',  
    coach: 'Aathma',  
    trainer: 'John Doe',  
  },  
];  
  
function App() {  
  return (  
    <div style={{ border: '1px solid black', padding: '20px' }}>  
      <h2>Cohorts Details</h2>  
      {data.map((cohort, index) => (  
        <CohortDetails key={index} cohort={cohort} />  
      ))}  
    </div>  
  );  
}  
  
export default App;
```

```
JS App.js M X # CohortDetails.module.css U JS CohortDetails.js U
src > JS App.js > App
1 import React from 'react';
2 import CohortDetails from './CohortDetails';
3
4 const data = [
5   {
6     name: 'INTADMDF10 - .NET FSD',
7     startDate: '22-Feb-2022',
8     status: 'Scheduled',
9     coach: 'Aathma',
10    trainer: 'Jojo Jose',
11  },
12  {
13    name: 'ADM21JF014 - Java FSD',
14    startDate: '10-Sep-2021',
15    status: 'Ongoing',
16    coach: 'Apoorv',
17    trainer: 'Elisa Smith',
18  },
19  {
20    name: 'CDBJF21025 - Java FSD',
21    startDate: '24-Dec-2021',
22    status: 'Ongoing',
23    coach: 'Aathma',
24    trainer: 'John Doe',
25  },
26 ];
27
28 function App() {
29   return (
30     <div style={{ border: '1px solid black', padding: '20px' }}>
31       <h2>Cohorts Details</h2>
32       <div>
33         {data.map((cohort, index) => (
34           <CohortDetails key={index} cohort={cohort} />
35         ))}
36       </div>
37     </div>
38   );
39   export default App;
```

OUTPUT:



Cohorts Details

INTADMDF10 - .NET FSD	ADM21JF014 - Java FSD	CDBJF21025 - Java FSD
Started On 22-Feb-2022	Started On 10-Sep-2021	Started On 24-Dec-2021
Current Status Scheduled	Current Status Ongoing	Current Status Ongoing
Coach Aathma	Coach Apoorv	Coach Aathma
Trainer Jojo Jose	Trainer Elisa Smith	Trainer John Doe