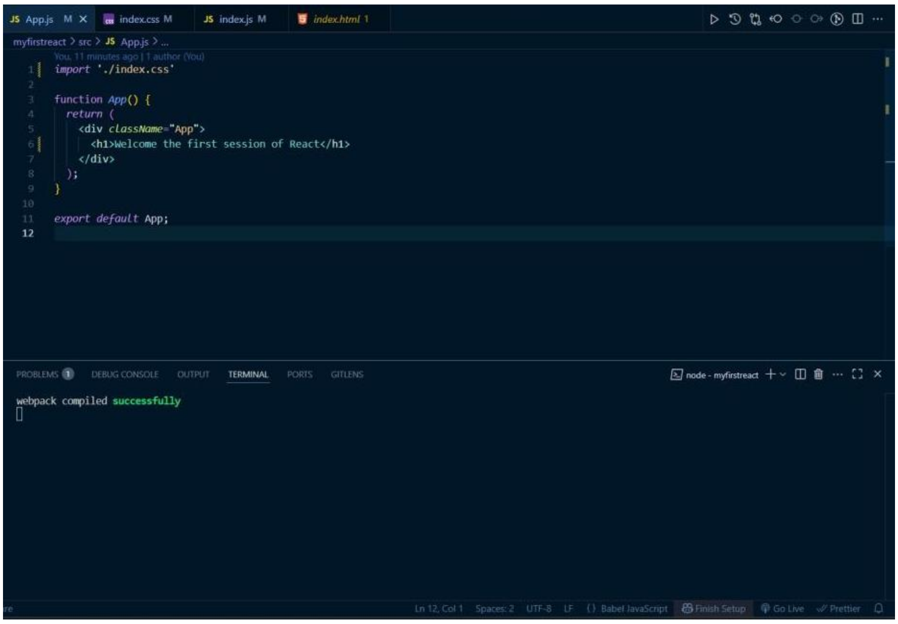
Week - 6

1. ReactJS-HOL

Create a new React Application with the name “myfirstreact”, Run the application to print “welcome to the first session of React” as heading of that page

App.js

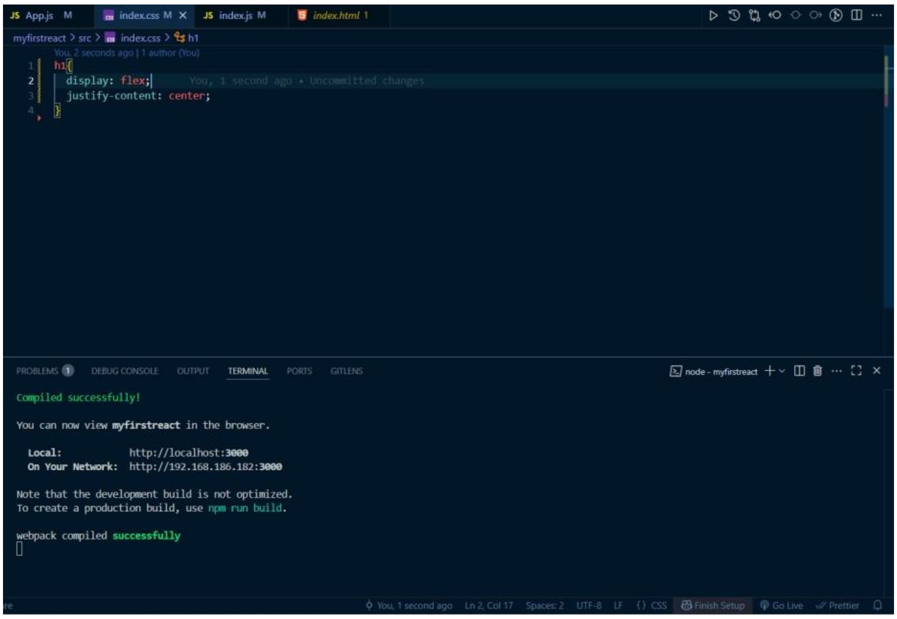


JS App.js M ×
index.css M
JS index.js M
index.html 1
myfirstreact > src > JS App.js > ...
You, 11 minutes ago | 1 author (You)

```
import './index.css'

function App() {
  return (
    <div className="App">
      <h1>Welcome the first session of React</h1>
    </div>
  );
}

export default App;
```

```
webpack compiled successfully
```

Index.css

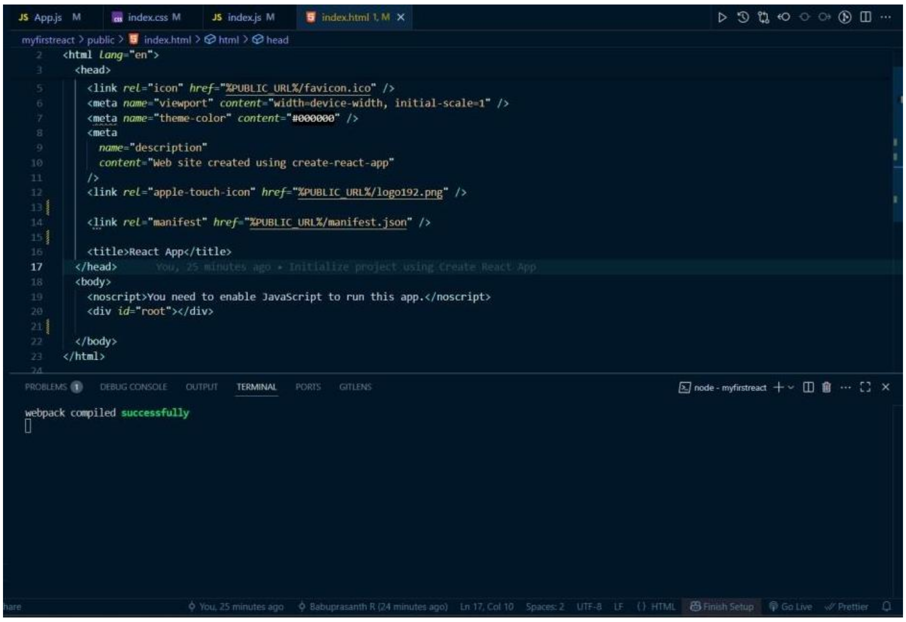


JS App.js M
index.css M ×
JS index.js M
index.html 1
myfirstreact > src > index.css > h1
You, 2 seconds ago | 1 author (You)

```
h1{
  display: flex;      You, 1 second ago • Uncommitted changes
  justify-content: center;
}
```

```
Compiled successfully!

You can now view myfirstreact in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.186.182:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```

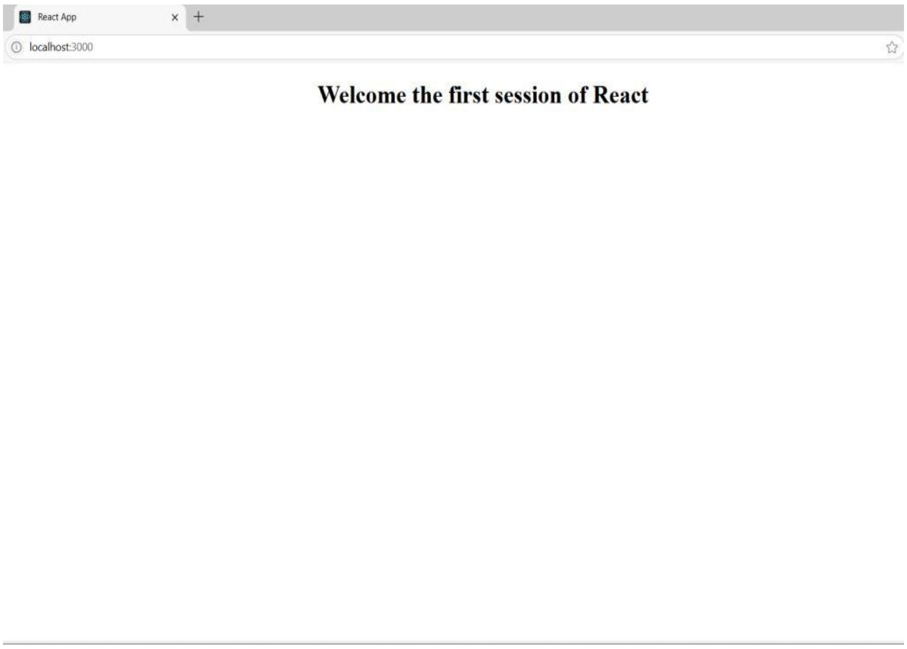
Index.html



```html
<html lang="en">
  <head>
    <link rel="icon" href="%PUBLIC_URL%/favicon.ico" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <meta name="theme-color" content="#000000" />
    <meta
      name="description"
      content="Web site created using create-react-app"
    />
    <link rel="apple-touch-icon" href="%PUBLIC_URL%/logo192.png" />

    <link rel="manifest" href="%PUBLIC_URL%/manifest.json" />

    <title>React App</title>
  </head>        You, 25 minutes ago • Initialize project using Create React App
  <body>
    <noscript>You need to enable JavaScript to run this app.</noscript>
    <div id="root"></div>

  </body>
</html>
```

```
webpack compiled successfully
```

Output

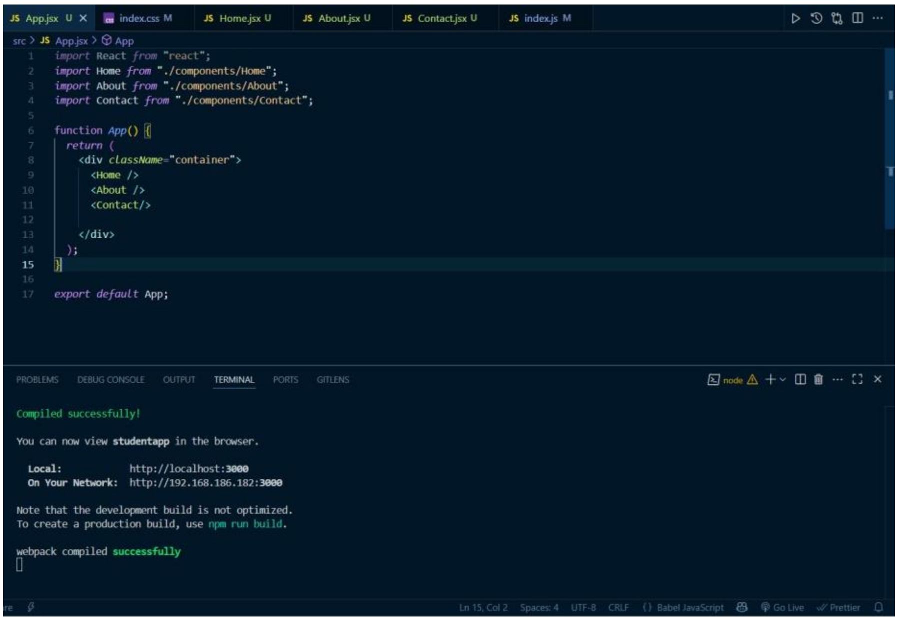


Welcome the first session of React

2. ReactJS-HOL

Create a react app for Student Management Portal named StudentApp and create a component named Home which will display the Message “Welcome to the Home page of Student Management Portal”. Create another component named About and display the Message “Welcome to the About page of the Student Management Portal”. Create a third component named Contact and display the Message “Welcome to the Contact page of the Student Management Portal”. Call all the three components

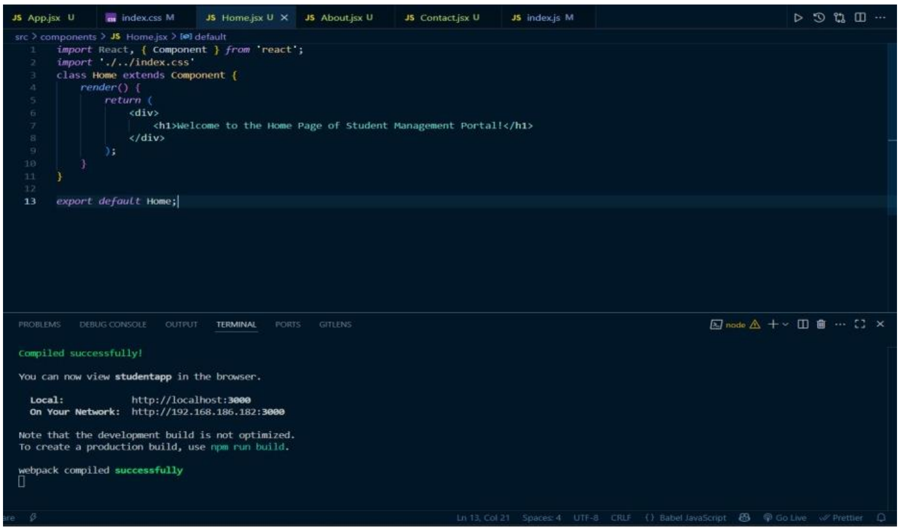
App.jsx



```jsx
import React from "react";
import Home from "./components/Home";
import About from "./components/About";
import Contact from "./components/Contact";

function App() {
  return (
    <div className="container">
      <Home />
      <About />
      <Contact/>

    </div>
  );
}

export default App;
```

```
Compiled successfully!

You can now view studentapp in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.186.182:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```

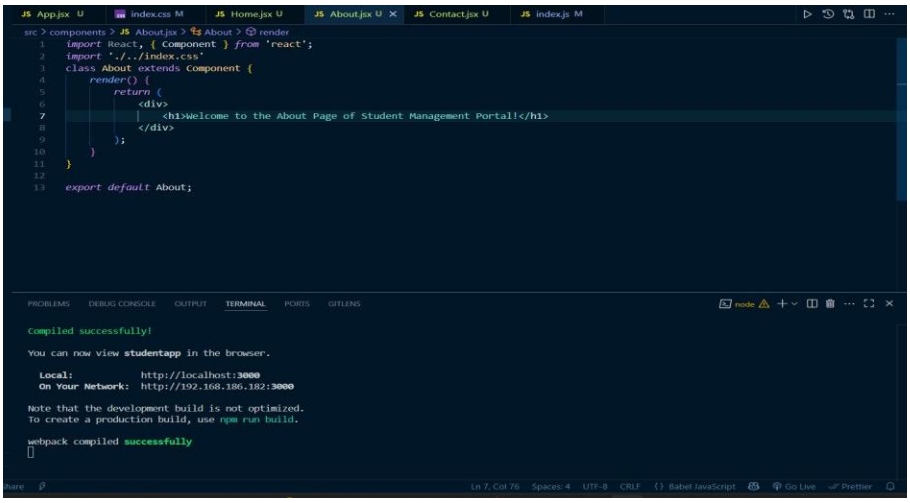
Component/Home.jsx



```jsx
import React, { Component } from 'react';
import './../index.css'
class Home extends Component {
    render() {
        return (
            <div>
                <h1>Welcome to the Home Page of Student Management Portal!</h1>
            </div>
        );
    }
}

export default Home;
```

```
Compiled successfully!

You can now view studentapp in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.186.182:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```

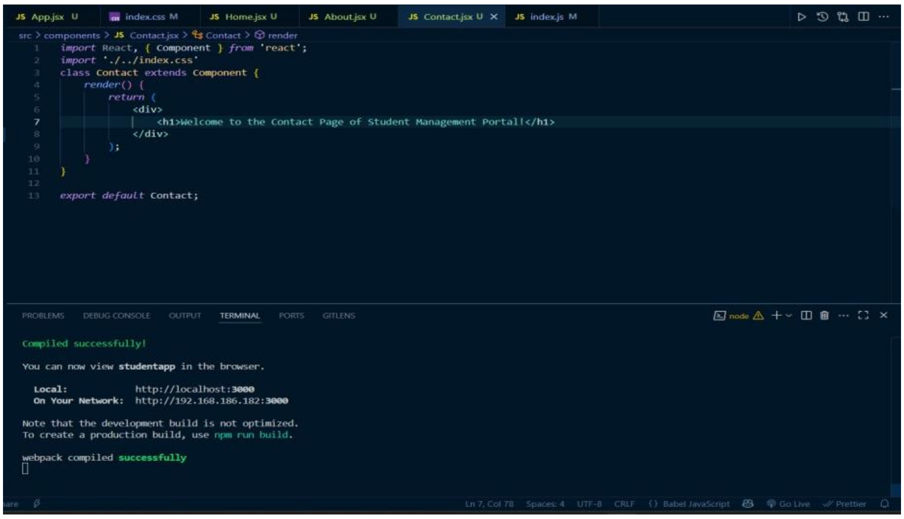
Component/About.jsx



```jsx
import React, { Component } from 'react';
import './../index.css'
class About extends Component {
    render() {
        return (
            <div>
                <h1>Welcome to the About Page of Student Management Portal!</h1>
            </div>
        );
    }
}

export default About;
```

```
Compiled successfully!

You can now view studentapp in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.186.182:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```

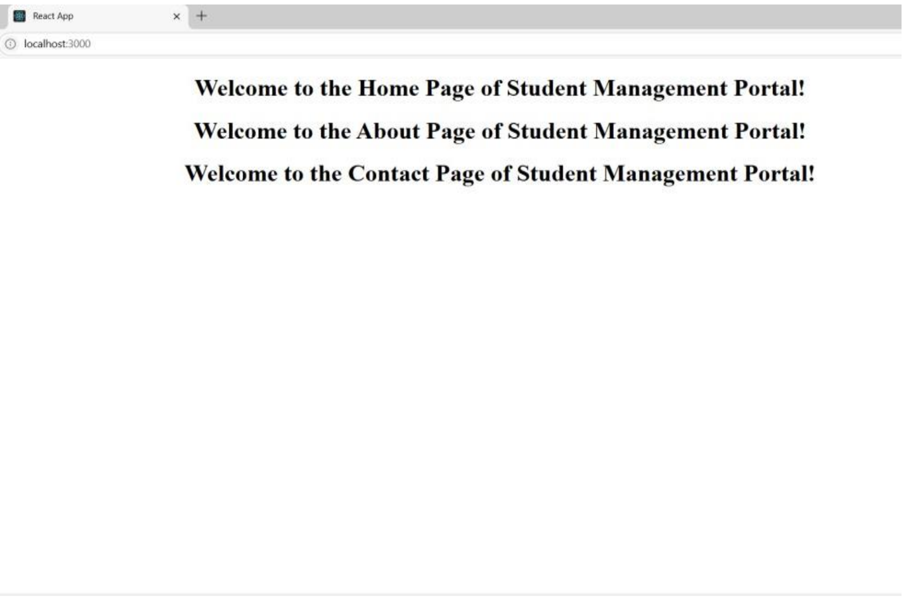
Component/Contact.jsx



```jsx
import React, { Component } from 'react';
import './../index.css'
class Contact extends Component {
    render() {
        return (
            <div>
                <h1>Welcome to the Contact Page of Student Management Portal!</h1>
            </div>
        );
    }
}

export default Contact;
```

```
Compiled successfully!

You can now view studentapp in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.186.182:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```

Output



Welcome to the Home Page of Student Management Portal!

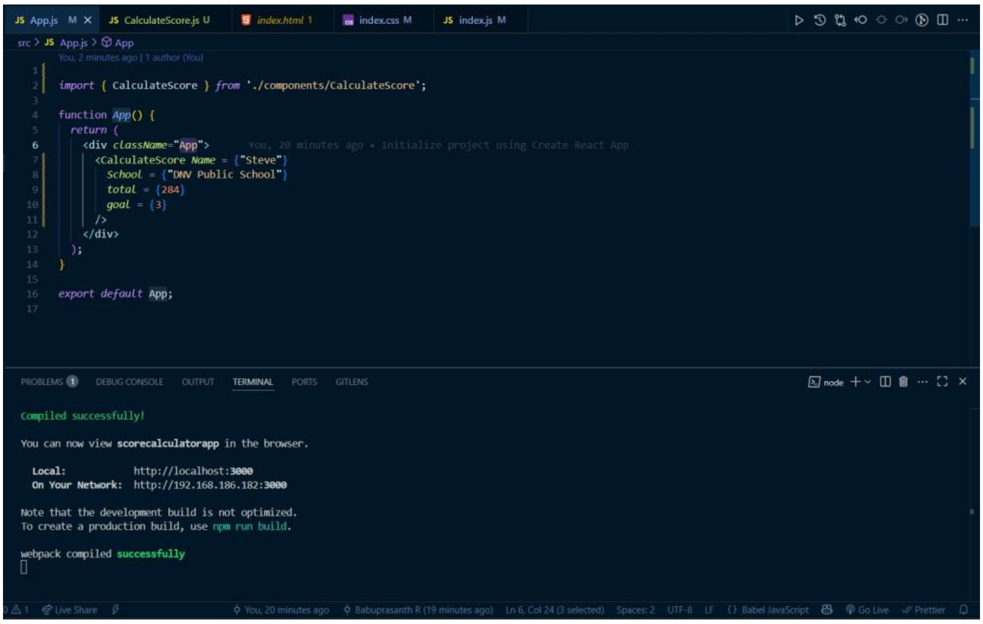
Welcome to the About Page of Student Management Portal!

Welcome to the Contact Page of Student Management Portal!

3. ReactJS-HOL

Create a react app for Student Management Portal named scorecalculatorapp and create a function component named “CalculateScore” which will accept Name, School, Total and goal in order to calculate the average score of a student and display the same.

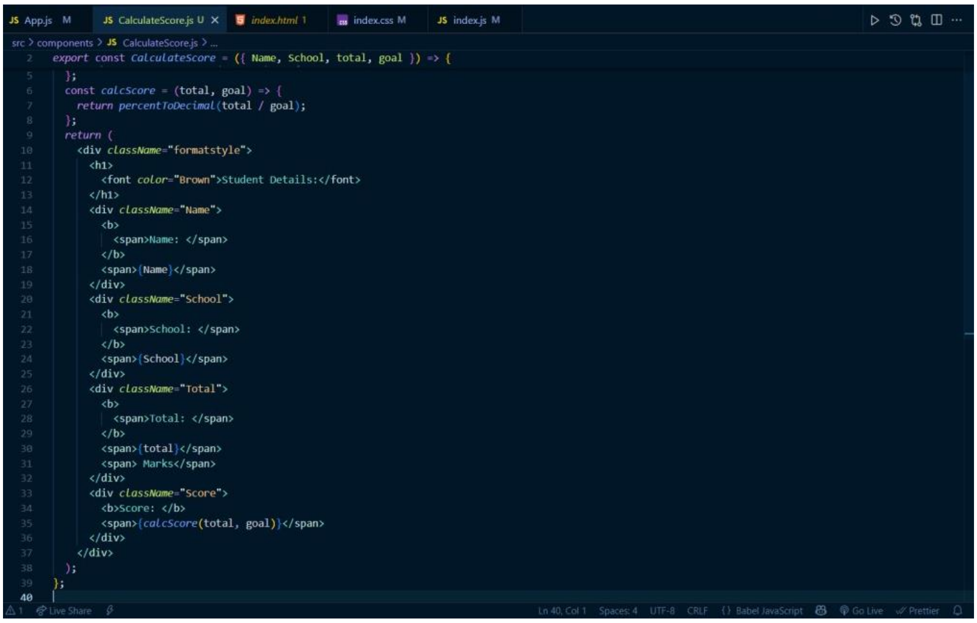
App.js



```
import { CalculateScore } from './components/CalculateScore';

function App() {
  return (
    <div className="App">
      <CalculateScore Name = {"Steve"}
        School = {"DNV Public School"}
        total = {284}
        goal = {3}
      />
    </div>
  );
}

export default App;
```

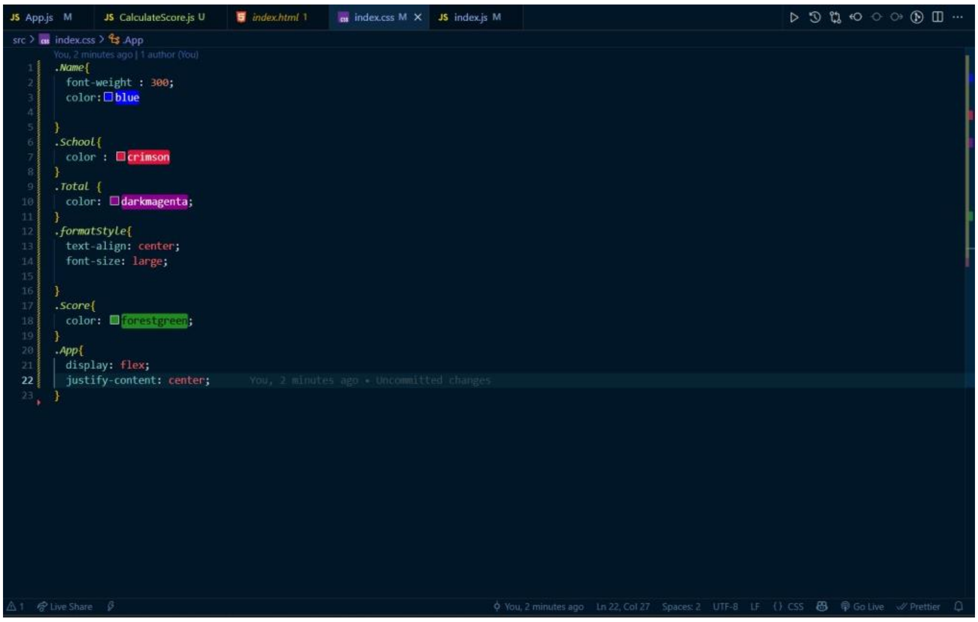
```
Compiled successfully!

You can now view scorecalculatorapp in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.186.182:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```

Components/CalculateScore.js



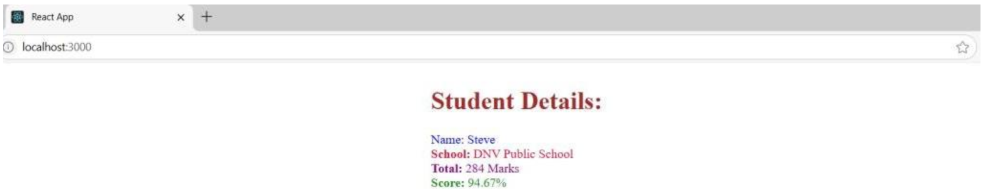
```
export const CalculateScore = ({ Name, School, total, goal }) => {
  };
  const calcScore = (total, goal) => {
    return percentToDecimal(total / goal);
  };
  return (
    <div className="formatstyle">
      <h1>
        <font color="Brown">Student Details:</font>
      </h1>
      <div className="Name">
        <b>
          <span>Name: </span>
        </b>
        <span>{Name}</span>
      </div>
      <div className="School">
        <b>
          <span>School: </span>
        </b>
        <span>{School}</span>
      </div>
      <div className="Total">
        <b>
          <span>Total: </span>
        </b>
        <span>{total}</span>
        <span> Marks</span>
      </div>
      <div className="Score">
        <b>Score: </b>
        <span>{calcScore(total, goal)}</span>
      </div>
    </div>
  );
};
```

Index.css



```css
.Name{
  font-weight : 300;
  color: blue

}
.School{
  color : crimson
}
.Total {
  color: darkmagenta;
}
.formatStyle{
  text-align: center;
  font-size: large;

}
.Score{
  color: forestgreen;
}
.App{
  display: flex;
  justify-content: center;
}
```

Output



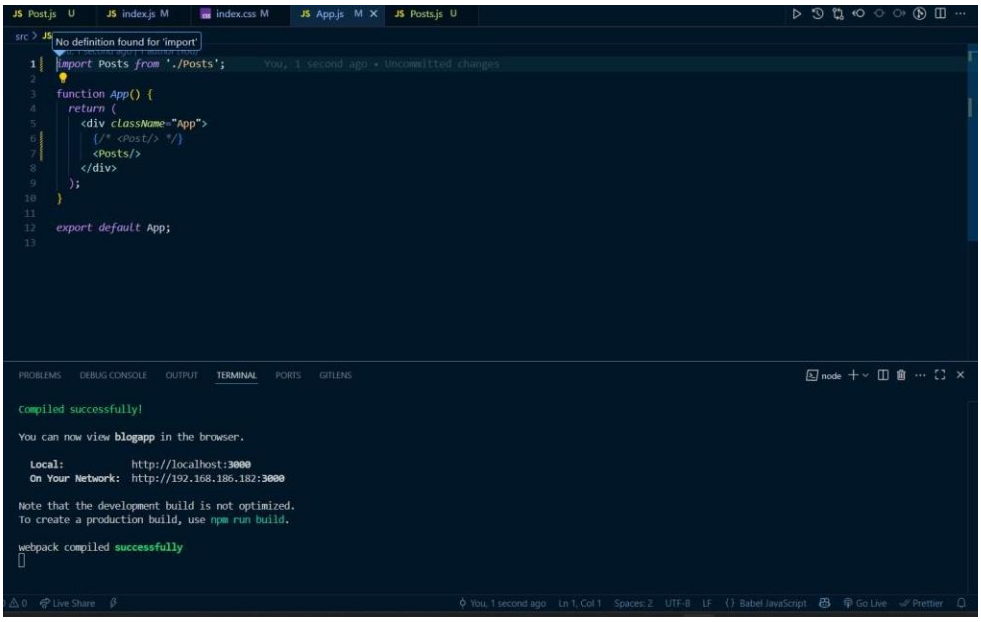
```
Student Details:

Name: Steve
School: DNV Public School
Total: 284 Marks
Score: 94.67%
```

4. ReactJS-HOL

Implement componentDidMount() hook

Implementing componentDidCatch() life cycle hook.

App.js

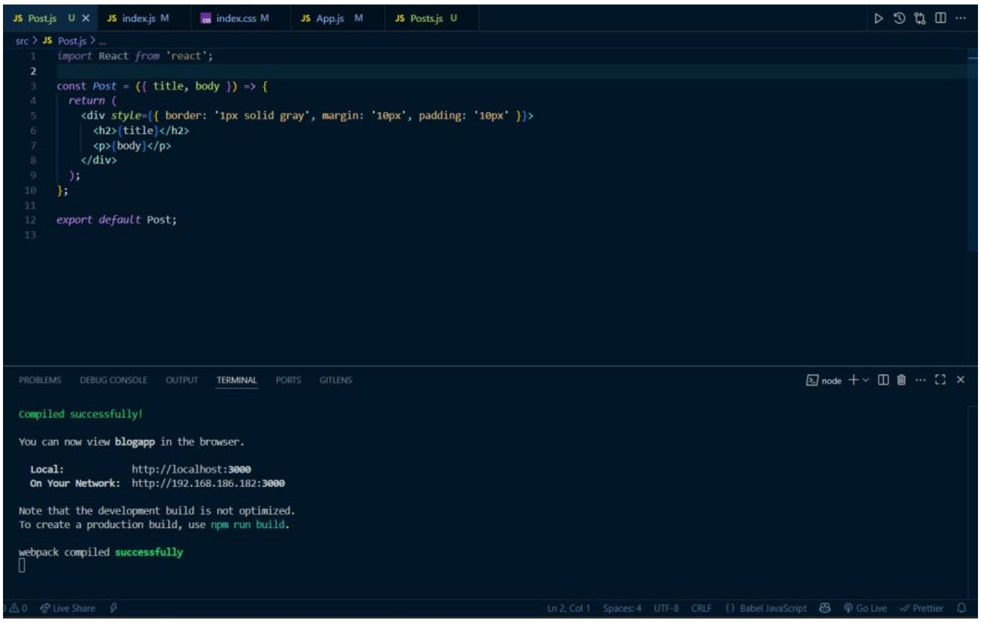


No definition found for 'import'

```
import Posts from './Posts';

function App() {
  return (
    <div className="App">
      {/* <Post/> */}
      <Posts/>
    </div>
  );
}

export default App;
```

```
Compiled successfully!

You can now view blogapp in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.186.182:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```

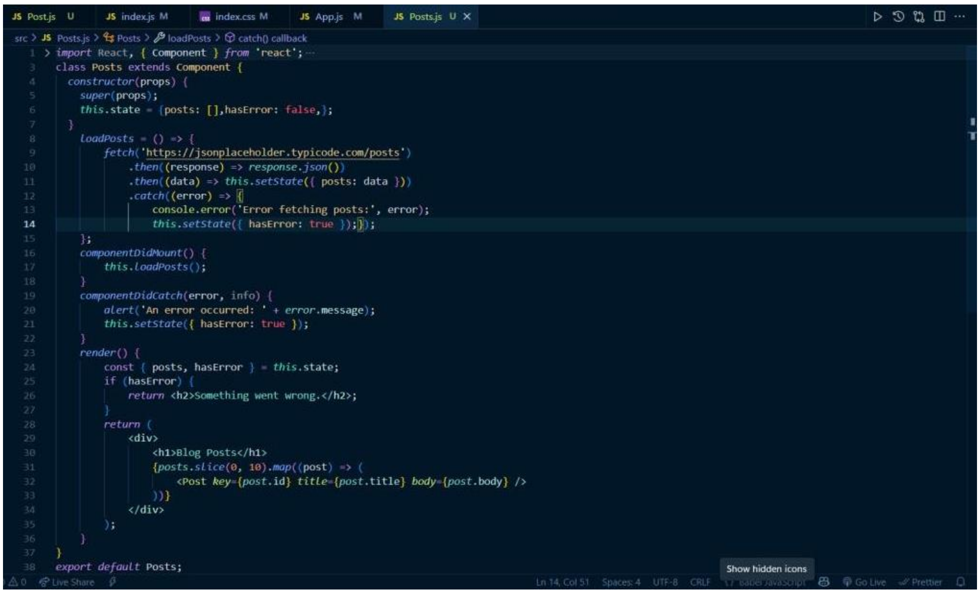
Post.js



```
import React from 'react';

const Post = ({ title, body }) => {
  return (
    <div style={{ border: '1px solid gray', margin: '10px', padding: '10px' }}>
      <h2>{title}</h2>
      <p>{body}</p>
    </div>
  );
};

export default Post;
```

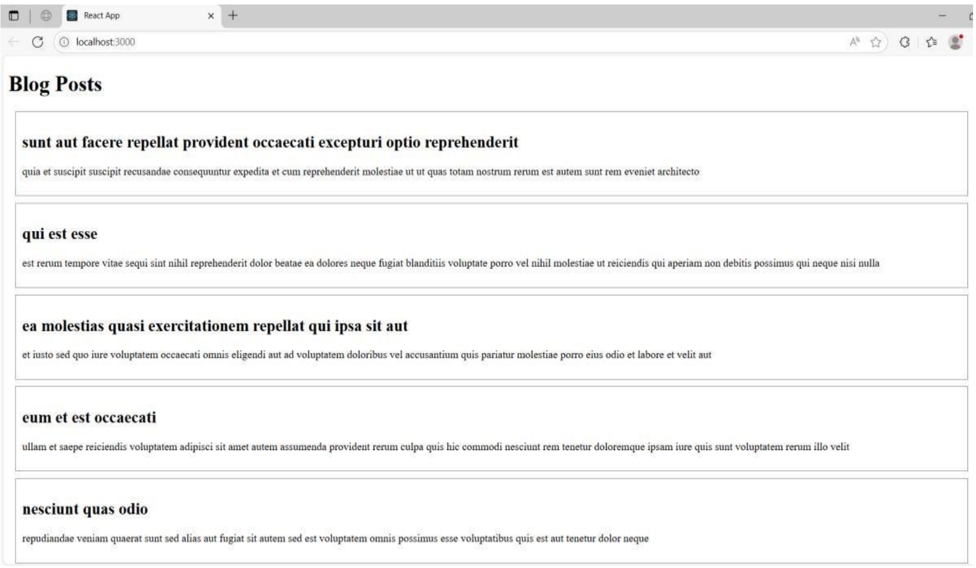
```
Compiled successfully!

You can now view blogapp in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://192.168.186.182:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```

Posts.js



```
> import React, { Component } from 'react';···
class Posts extends Component {
  constructor(props) {
    super(props);
    this.state = {posts: [],hasError: false,};
  }
    loadPosts = () => {
        fetch('https://jsonplaceholder.typicode.com/posts')
            .then((response) => response.json())
            .then((data) => this.setState({ posts: data }))
            .catch((error) => {
                console.error('Error fetching posts:', error);
                this.setState({ hasError: true });});
    };
    componentDidMount() {
        this.loadPosts();
    }
    componentDidCatch(error, info) {
        alert('An error occurred: ' + error.message);
        this.setState({ hasError: true });
    }
    render() {
        const { posts, hasError } = this.state;
        if (hasError) {
            return <h2>Something went wrong.</h2>;
        }
        return (
            <div>
                <h1>Blog Posts</h1>
                {posts.slice(0, 10).map((post) => (
                    <Post key={post.id} title={post.title} body={post.body} />
                ))}
            </div>
        );
    }
}
export default Posts;
```

Output



Blog Posts

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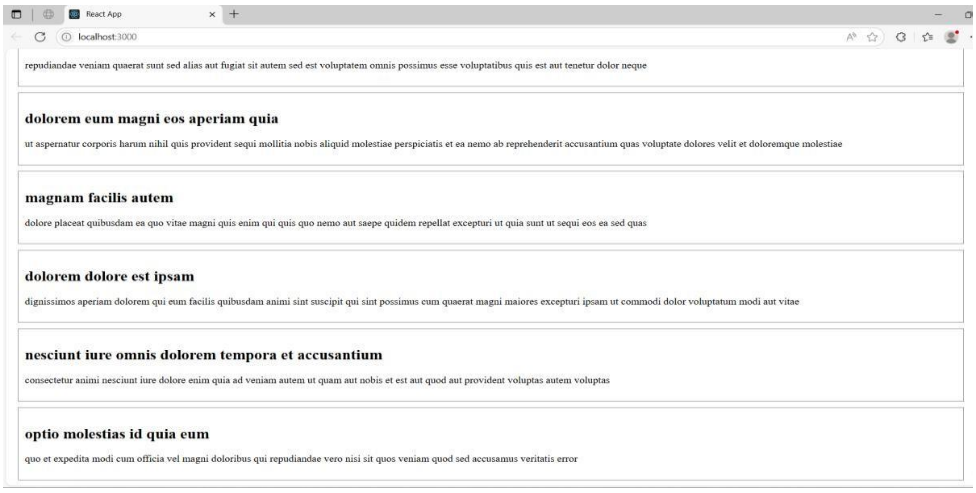

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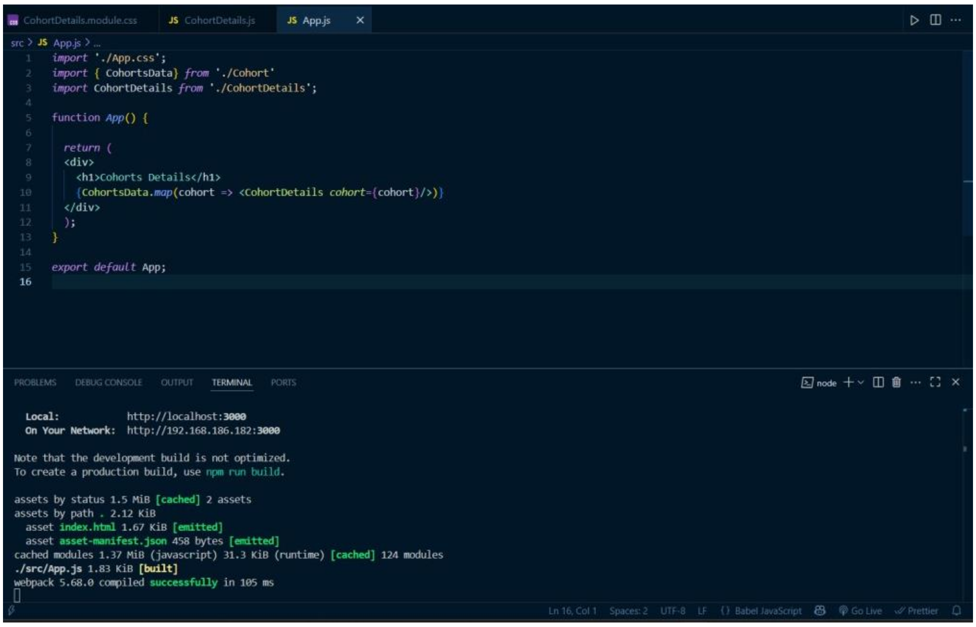
5. ReactJS-HOL

Style a react component

Define styles using the CSS Module

Apply styles to components using className and style properties

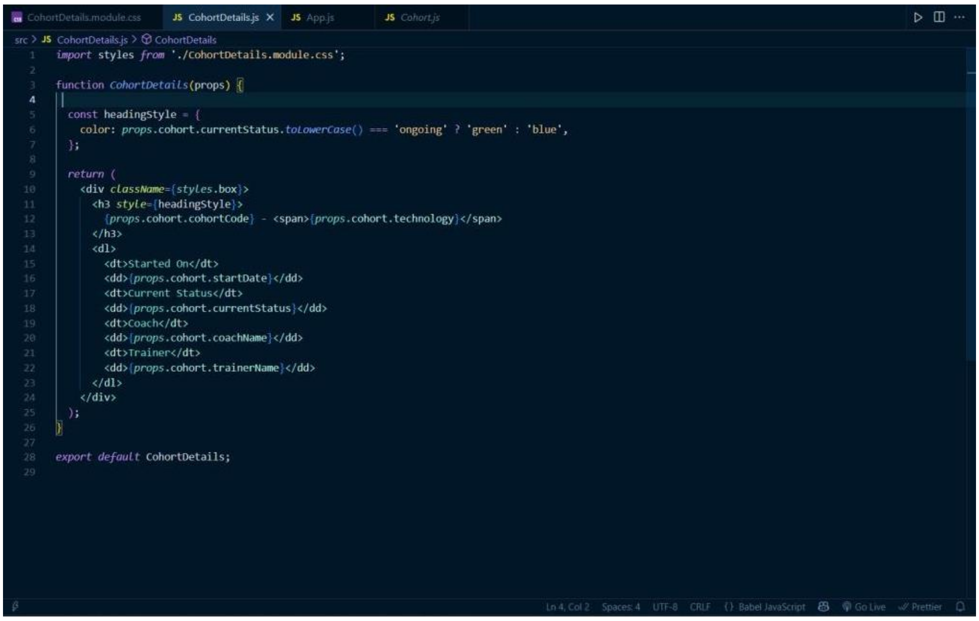
App.js



```
import './App.css';
import { CohortsData} from './Cohort'
import CohortDetails from './CohortDetails';

function App() {

  return (
  <div>
    <h1>Cohorts Details</h1>
    {CohortsData.map(cohort => <CohortDetails cohort={cohort}/>)}
  </div>
  );
}

export default App;
```

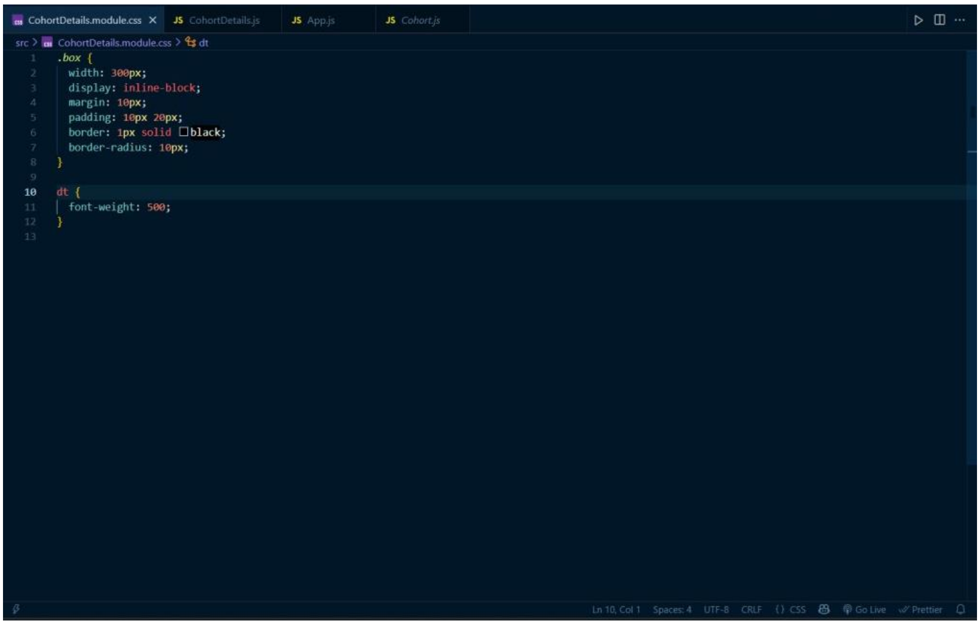
```
  Local:            http://localhost:3000
  On Your Network:  http://192.168.186.182:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

assets by status 1.5 MiB [cached] 2 assets
assets by path . 2.12 KiB
  asset index.html 1.67 KiB [emitted]
  asset asset-manifest.json 458 bytes [emitted]
cached modules 1.37 MiB (javascript) 31.3 KiB (runtime) [cached] 124 modules
./src/App.js 1.83 KiB [built]
webpack 5.68.0 compiled successfully in 105 ms
```

CohortDetails.js



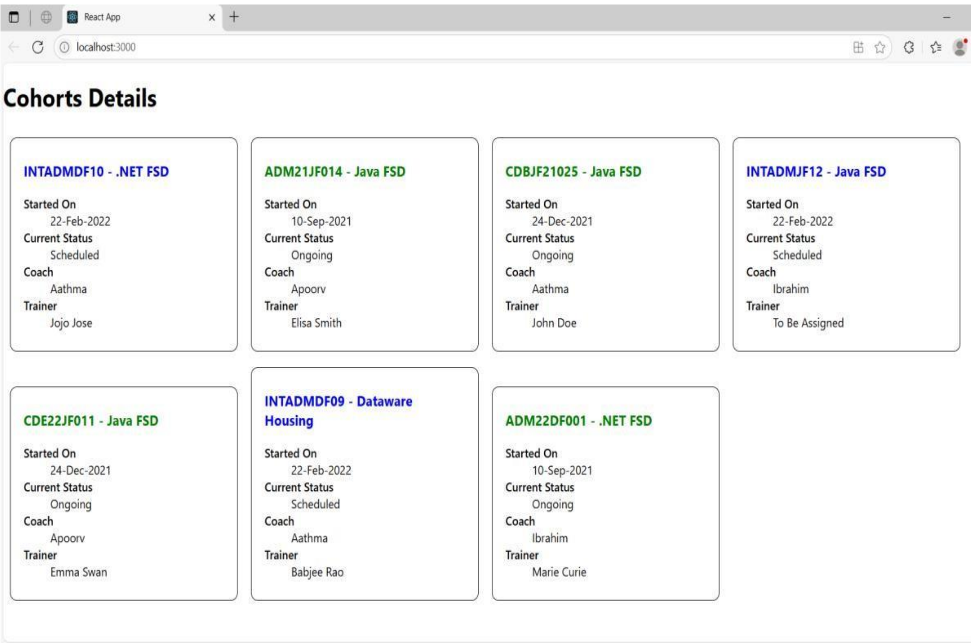
```
import styles from './CohortDetails.module.css';

function CohortDetails(props) {

  const headingStyle = {
    color: props.cohort.currentStatus.toLowerCase() === 'ongoing' ? 'green' : 'blue',
  };

  return (
    <div className={styles.box}>
      <h3 style={headingStyle}>
        {props.cohort.cohortCode} - <span>{props.cohort.technology}</span>
      </h3>
      <dl>
        <dt>Started On</dt>
        <dd>{props.cohort.startDate}</dd>
        <dt>Current Status</dt>
        <dd>{props.cohort.currentStatus}</dd>
        <dt>Coach</dt>
        <dd>{props.cohort.coachName}</dd>
        <dt>Trainer</dt>
        <dd>{props.cohort.trainerName}</dd>
      </dl>
    </div>
  );
}

export default CohortDetails;
```

CohortDetails.module.css



```css
.box {
  width: 300px;
  display: inline-block;
  margin: 10px;
  padding: 10px 20px;
  border: 1px solid black;
  border-radius: 10px;
}

dt {
  font-weight: 500;
}
```

Output



Cohorts Details

INTADMDF10 - .NET FSD

Started On
22-Feb-2022
Current Status
Scheduled
Coach
Aathma
Trainer
Jojo Jose

ADM21JF014 - Java FSD

Started On
10-Sep-2021
Current Status
Ongoing
Coach
Apoorv
Trainer
Elisa Smith

CDBJF21025 - Java FSD

Started On
24-Dec-2021
Current Status
Ongoing
Coach
Aathma
Trainer
John Doe

INTADMJF12 - Java FSD

Started On
22-Feb-2022
Current Status
Scheduled
Coach
Ibrahim
Trainer
To Be Assigned

CDE22JF011 - Java FSD

Started On
24-Dec-2021
Current Status
Ongoing
Coach
Apoorv
Trainer
Emma Swan

INTADMDF09 - Dataware Housing

Started On
22-Feb-2022
Current Status
Scheduled
Coach
Aathma
Trainer
Babjee Rao

ADM22DF001 - .NET FSD

Started On
10-Sep-2021
Current Status
Ongoing
Coach
Ibrahim
Trainer
Marie Curie