

WEEK 6

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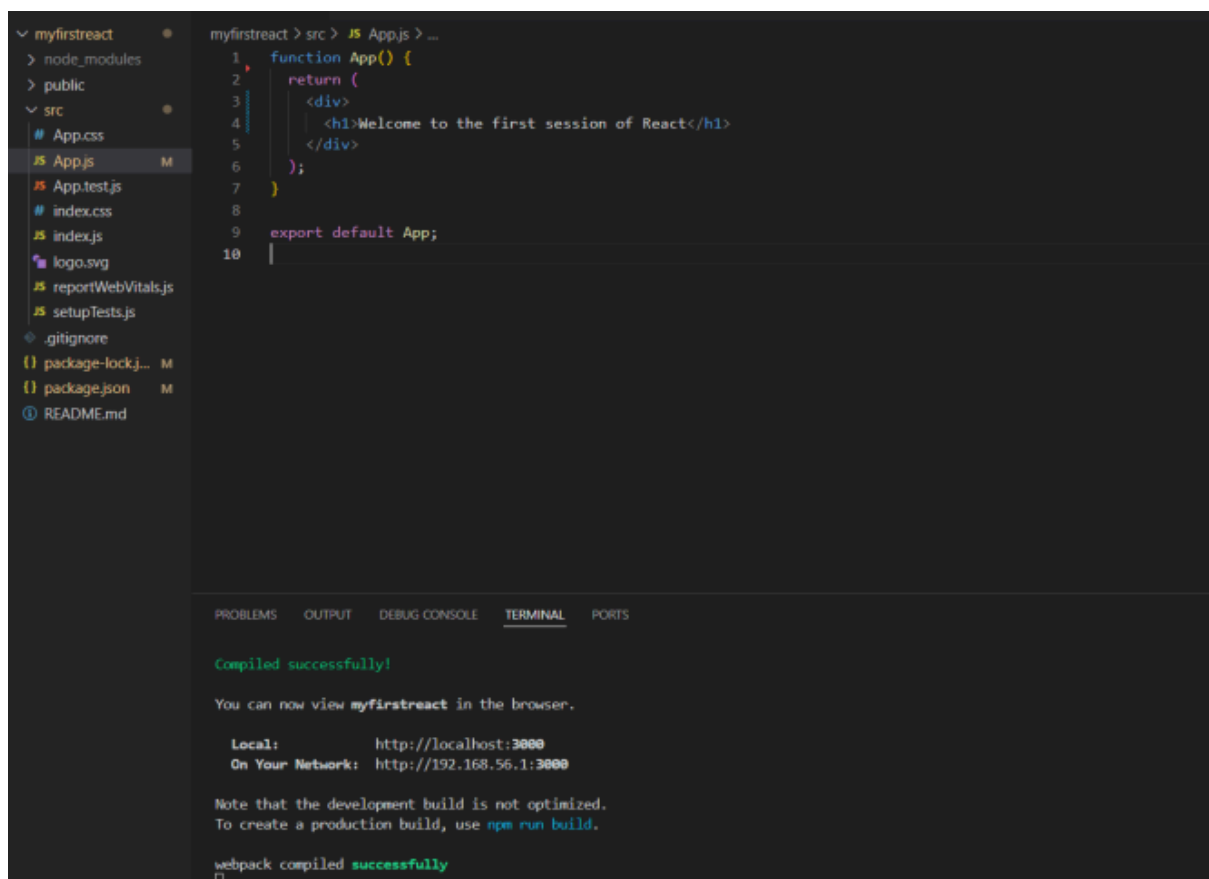
ROLL NO. : 22052852

1. ReactJS-HOL

import React from 'react';

```
function App() {  
  return (  
    <div>  
      <h1>Welcome to the first session of React</h1>  
    </div>  
  );  
}
```

export default App;



2.ReactJS-HOL

import React, { Component } from 'react';

```
class Home extends Component {
  render() {
    return (
      <div>
        <h2>Welcome to the Home page of Student Management Portal</h2>
      </div>
    );
  }
}
```

export default Home;

import React, { Component } from 'react';

```
class About extends Component {
  render() {
    return (
      <div>
        <h2>Welcome to the About page of the Student Management Portal</h2>
      </div>
    );
  }
}
```

export default About;

import React, { Component } from 'react';

```
class Contact extends Component {
  render() {
    return (
      <div>
        <h2>Welcome to the Contact page of the Student Management Portal</h2>
      </div>
    );
  }
}
```

export default Contact;

import React from 'react';

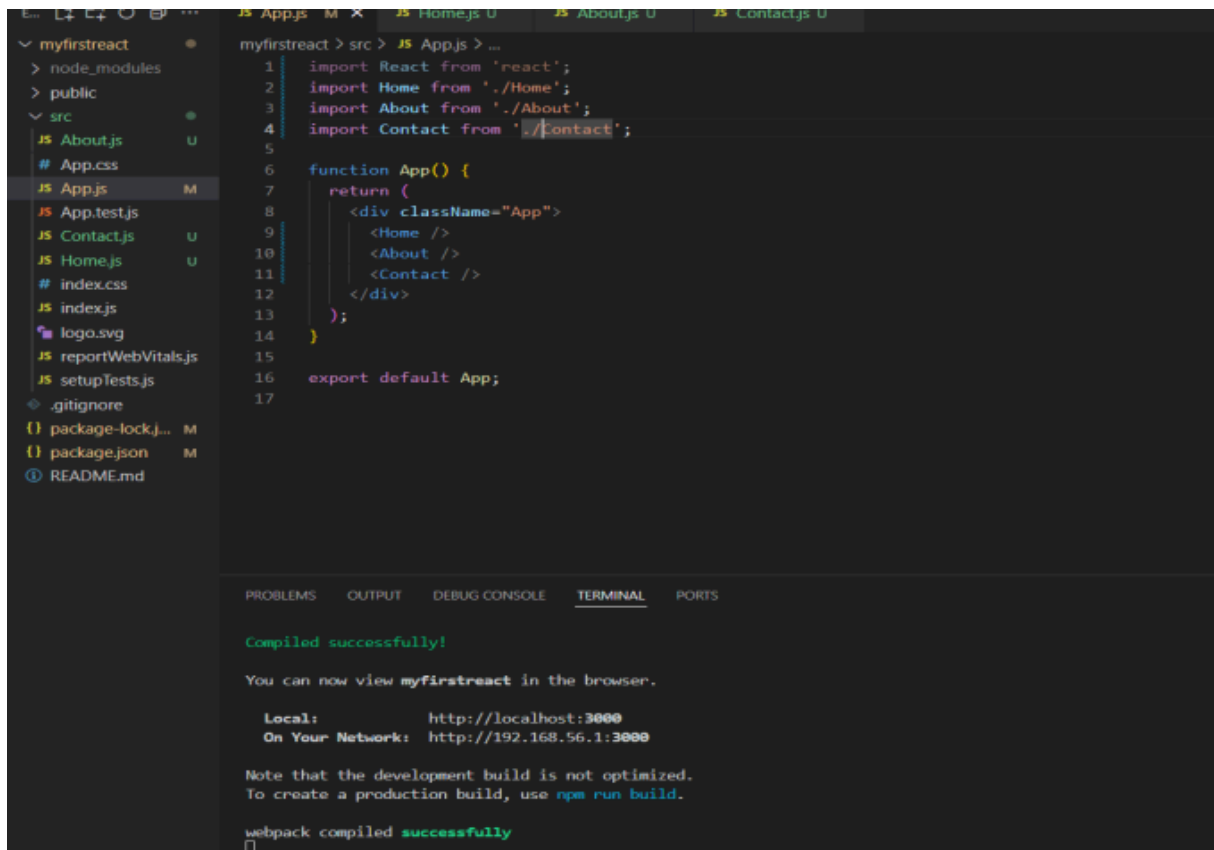
import Home from './Components/Home';

import About from './Components/About';

import Contact from './Components/Contact';

```
function App() {
  return (
    <div>
      <Home />
      <About />
      <Contact />
    </div>
  );
}
```

export default App;



3. ReactJS-HOL

```
import React from 'react';
import '../Stylesheets/mystyle.css';
```

```
function CalculateScore(props) {
  const { name, school, total, goal } = props;
  const average = total / goal;

  return (
    <div className="score-card">
      <h2>Student Score Details</h2>
      <p><strong>Name:</strong> {name}</p>
      <p><strong>School:</strong> {school}</p>
      <p><strong>Total Score:</strong> {total}</p>
      <p><strong>Subjects:</strong> {goal}</p>
      <p><strong>Average Score:</strong> {average.toFixed(2)}</p>
    </div>
  );
}
```

```
export default CalculateScore;
```

```
.score-card {
  background-color: #f0f8ff;
  padding: 20px;
  margin: 30px auto;
  width: 400px;
  border-radius: 10px;
  box-shadow: 0px 4px 8px rgba(0,0,0,0.1);
  font-family: Arial, sans-serif;
```

```

}

.score-card h2 {
  color: #2c3e50;
  text-align: center;
}

.score-card p {
  font-size: 16px;
  margin: 5px 0;
}

import React from 'react';
import './App.css';
import CalculateScore from './Components/CalculateScore';

function App() {
  return (
    <div className="App">
      <CalculateScore
        name="John Doe"
        school="Sunshine High School"
        total={450}
        goal={5}
      />
    </div>
  );
}

export default App;

```

The screenshot shows a code editor with a file explorer on the left and a terminal at the bottom. The file explorer shows a project named 'myfirstreact' with a 'src' directory containing 'App.js', 'App.test.js', 'CalculateScore.js', 'index.css', 'index.js', 'logo.svg', 'reportWebVitals.js', 'setupTests.js', 'style.css', '.gitignore', 'package-lock.json', 'package.json', and 'README.md'. The 'App.js' file is selected and its content is displayed in the editor. The code in 'App.js' is as follows:

```

1  import React from 'react';
2  import CalculateScore from './CalculateScore';
3
4  function App() {
5    return (
6      <div className="App">
7        <CalculateScore
8          name="Steeve"
9          school="DNV Public School"
10         total={284}
11         goal={300}
12       />
13     </div>
14   );
15 }
16
17 export default App;
18

```

The terminal at the bottom shows the output of a successful webpack build:

```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

Compiled successfully!

You can now view myfirstreact in the browser.

  Local:      http://localhost:3000
  On Your Network: http://192.168.56.1:3000

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

webpack compiled successfully

```

Student Details:

Name: **Steeve**

School: **DNV Public School**

Total: **284Marks**

Score: **94.67%**

4. ReactJS-HOL

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

```
function Post(props) {  
  return (  
    <div className="post">  
      <h3>{props.title}</h3>  
      <p>{props.body}</p>  
    </div>  
  );  
}
```

```
export default Post;
```

```
import React, { Component } from 'react';  
import Post from './Post';
```

```
class Posts extends Component {  
  constructor(props) {  
    super(props);  
    this.state = {  
      posts: [],  
      hasError: false,  
    };  
  }  
}
```

```
// Lifecycle Method - componentDidMount  
componentDidMount() {  
  this.loadPosts();  
}
```

```
// Custom method to fetch posts  
loadPosts = () => {  
  fetch('https://jsonplaceholder.typicode.com/posts')  
    .then((response) => {  
      if (!response.ok) throw new Error('Failed to fetch posts');  
      return response.json();  
    })  
    .then((data) => this.setState({ posts: data }))  
    .catch((error) => {  
      this.setState({ hasError: true });  
      console.error('Error fetching posts:', error);  
    });  
};
```

```
// Lifecycle Method - componentDidCatch  
componentDidCatch(error, info) {  
  alert("An error occurred in the Posts component.");  
  console.error("Caught by componentDidCatch:", error, info);  
}
```

```
// Render method  
render() {  
  if (this.state.hasError) {  
    return <h2>Something went wrong while loading posts.</h2>;  
  }  
}
```

```

return (
  <div>
    <h2>Blog Posts</h2>
    {this.state.posts.slice(0, 10).map((post) => (
      <Post key={post.id} title={post.title} body={post.body} />
    ))}
  </div>
);
}
}

```

export default Posts;

```

import React from 'react';
import './App.css';
import Posts from './Posts';

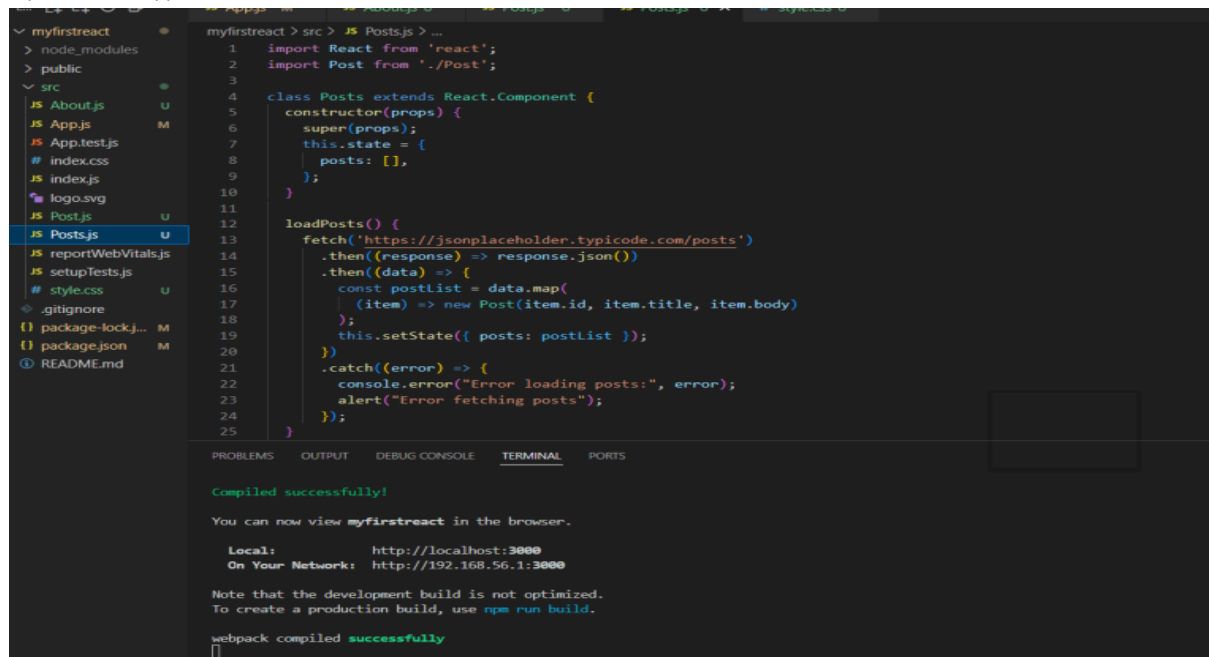
```

```

function App() {
  return (
    <div className="App">
      <h1>Welcome to BlogApp</h1>
      <Posts />
    </div>
  );
}

```

export default App;



5. ReactJS-HOL

/* CSS Module: CohortDetails.module.css */

```

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

```

```
/* Style for all <dt> tags */
```

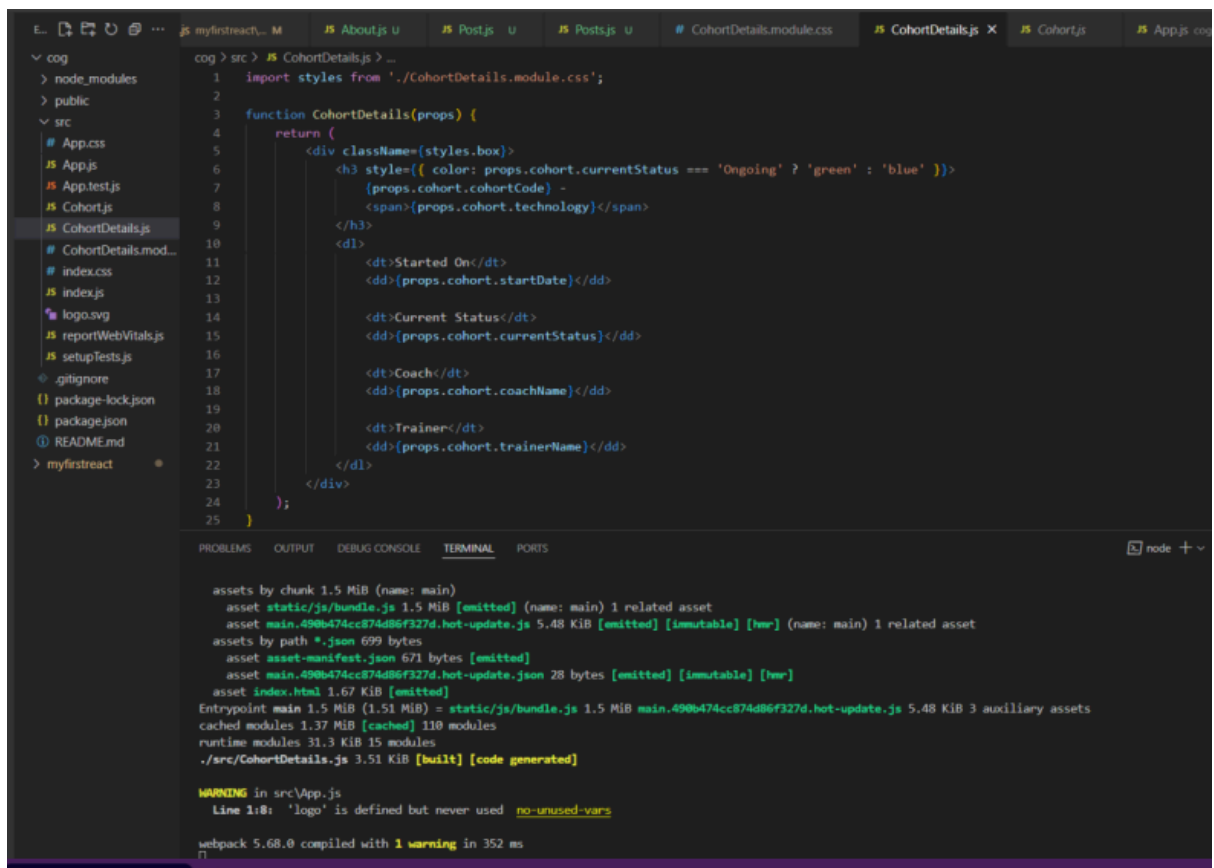
```
dt {  
  font-weight: 500;  
}
```

```
import React from 'react';  
import styles from './CohortDetails.module.css';  
function CohortDetails(props) {  
  const { cohortName, status, startDate, endDate } = props;
```

```
  
  const titleStyle = {  
    color: status === 'ongoing' ? 'green' : 'blue'  
  };  
};
```

```
  
return (  
  <div className={styles.box}>  
    <h3 style={titleStyle}>{cohortName}</h3>  
    <dl>  
      <dt>Status:</dt>  
      <dd>{status}</dd>  
      <dt>Start Date:</dt>  
      <dd>{startDate}</dd>  
      <dt>End Date:</dt>  
      <dd>{endDate}</dd>  
    </dl>  
  </div>  
)  
};  
}
```

```
export default CohortDetails;
```



The screenshot shows a code editor with the following files open: `myfirstreact...`, `About.js`, `Posts.js`, `Posts.js`, `CohortDetails.module.css`, `CohortDetails.js`, `Cohort.js`, and `App.js`. The `CohortDetails.js` file is selected, showing the following code:

```
1 import styles from './CohortDetails.module.css';  
2  
3 function CohortDetails(props) {  
4   return (  
5     <div className={styles.box}>  
6       <h3 style={{ color: props.cohort.currentStatus === 'Ongoing' ? 'green' : 'blue' }}>  
7         {props.cohort.cohortCode} -  
8         <span>{props.cohort.technology}</span>  
9       </h3>  
10      <dl>  
11        <dt>Started On</dt>  
12        <dd>{props.cohort.startDate}</dd>  
13  
14        <dt>Current Status</dt>  
15        <dd>{props.cohort.currentStatus}</dd>  
16  
17        <dt>Coach</dt>  
18        <dd>{props.cohort.coachName}</dd>  
19  
20        <dt>Trainer</dt>  
21        <dd>{props.cohort.trainerName}</dd>  
22      </dl>  
23    </div>  
24  );  
25 }
```

The terminal output shows the webpack 5.68.0 compilation results:

```
assets by chunk 1.5 MiB (name: main)  
  asset static/js/bundle.js 1.5 MiB [omitted] (name: main) 1 related asset  
  asset main.490b474cc874d86f327d.hot-update.js 5.48 KiB [omitted] [immutable] [hmr] (name: main) 1 related asset  
assets by path *.json 699 bytes  
  asset asset-manifest.json 671 bytes [omitted]  
  asset main.490b474cc874d86f327d.hot-update.json 28 bytes [omitted] [immutable] [hmr]  
  asset index.html 1.67 KiB [omitted]  
Entrypoint main 1.5 MiB (1.51 MiB) = static/js/bundle.js 1.5 MiB main.490b474cc874d86f327d.hot-update.js 5.48 KiB 3 auxiliary assets  
cached modules 1.37 MiB [cached] 110 modules  
runtime modules 31.3 KiB 15 modules  
./src/CohortDetails.js 3.51 KiB [built] [code generated]  
  
WARNING in src/App.js  
  Line 1:8: 'logo' is defined but never used  no-unused-vars  
  
webpack 5.68.0 compiled with 1 warning in 352 ms
```

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