

## WEEK-6 HANDS ON

### Exercise 1:

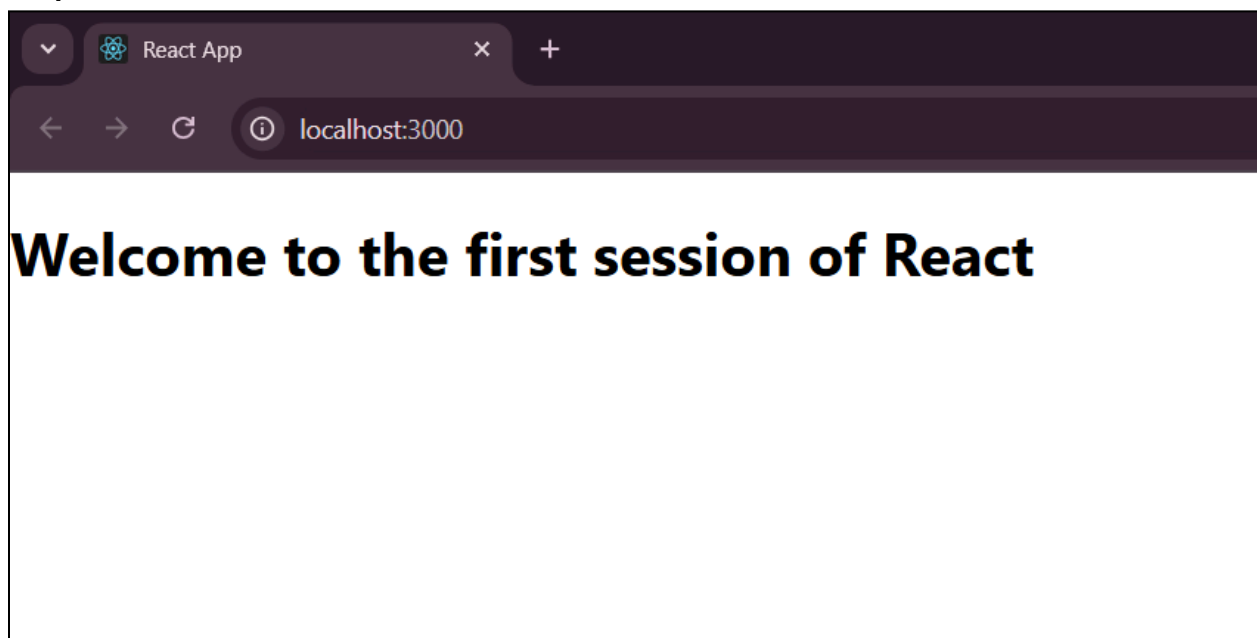
Create a new React Application with the name “myfirstreact”, Run the application to print “welcome to the first session of React” as heading of that page

- Downloaded Nodejs LTS version from <https://nodejs.org/en/download> and followed the installation process
- Verified installation with the command “node -v”
- Installed create-react-app package: npm install create-react-app
- Created a react app: npx create-react-app myfirstreact
- Modified [App.js](#)

### App.js

```
import logo from './logo.svg';
import './App.css';
function App() {
  return (
    <h1>Welcome to the first session of React</h1>
  );
}
export default App;
```

### Output:



### Exercise 2:

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

- Created a new folder named Components in src folder
- Added Home.js, About.js and Contact.js in the components folder
- Created React Components in the created files.
- Imported the components in the App Component and utilized them.

### App.js

```
import logo from './logo.svg';
import './App.css';
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;
```

### Home.js

```
import React, { Component } from "react";

function Home () {
  return (
    <div>
      <h3>Welcome to the Home page of Student Management Portal</h3>
    </div>
  )
}
```

```
}  
  
export default Home;
```

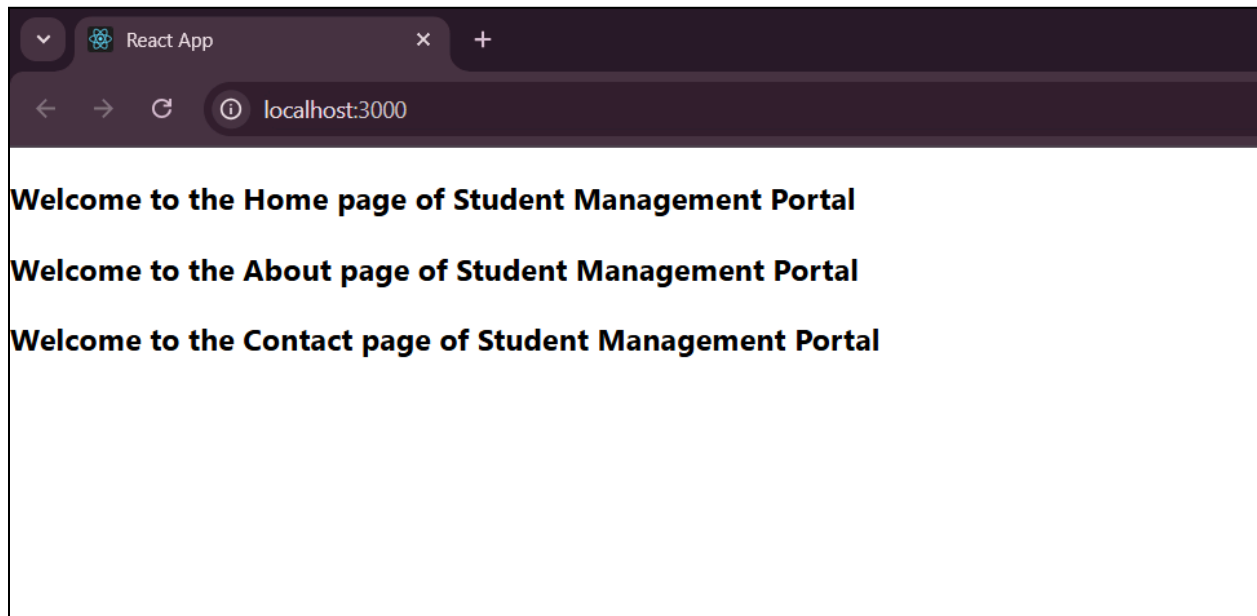
### About.js

```
import React, { Component } from "react";  
  
function About () {  
    return (  
        <div>  
            <h3>Welcome to the About page of Student Management  
Portal</h3>  
        </div>  
    )  
}  
  
export default About;
```

### Contact.js

```
import React, { Component } from "react";  
  
function Contact () {  
    return (  
        <div>  
            <h3>Welcome to the Contact page of Student Management  
Portal</h3>  
        </div>  
    )  
}  
  
export default Contact;
```

### Output:



### Exercise 3:

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.

#### CalculateScore.js

```
const percentToDecimal = (decimal) => {
  return (decimal.toFixed(2)+'%');
}

const calcScore = (total, goal) => {
  return percentToDecimal(total/goal);
}

export const CalculateScore = ({Name, School, total, goal}) => (
  <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>
)
```

```

        <div className="Total">
            <b><span> Total: </span></b>
            <span>{total}</span>
        </div>
        <div className="Score">
            <b><span> Score: </span></b>
            <span>{calcScore(total, goal)}</span>
        </div>
    </div>
)

```

### mystyle.js

```

.Name{
    font-weight: 300;
    color: blue;
}
.School {
    color: crimson;
}
.Total{
    color: darkmagenta;
}
.formatstyle {
    text-align: center;
    font-size: large;
}
.Score {
    color: forestgreen;
}

```

### App.js

```

import logo from './logo.svg';
import './App.css';
import Home from './components/Home';
import About from './components/About';
import Contact from './components/Contact';
import { CalculateScore } from './components/CalculateScore';

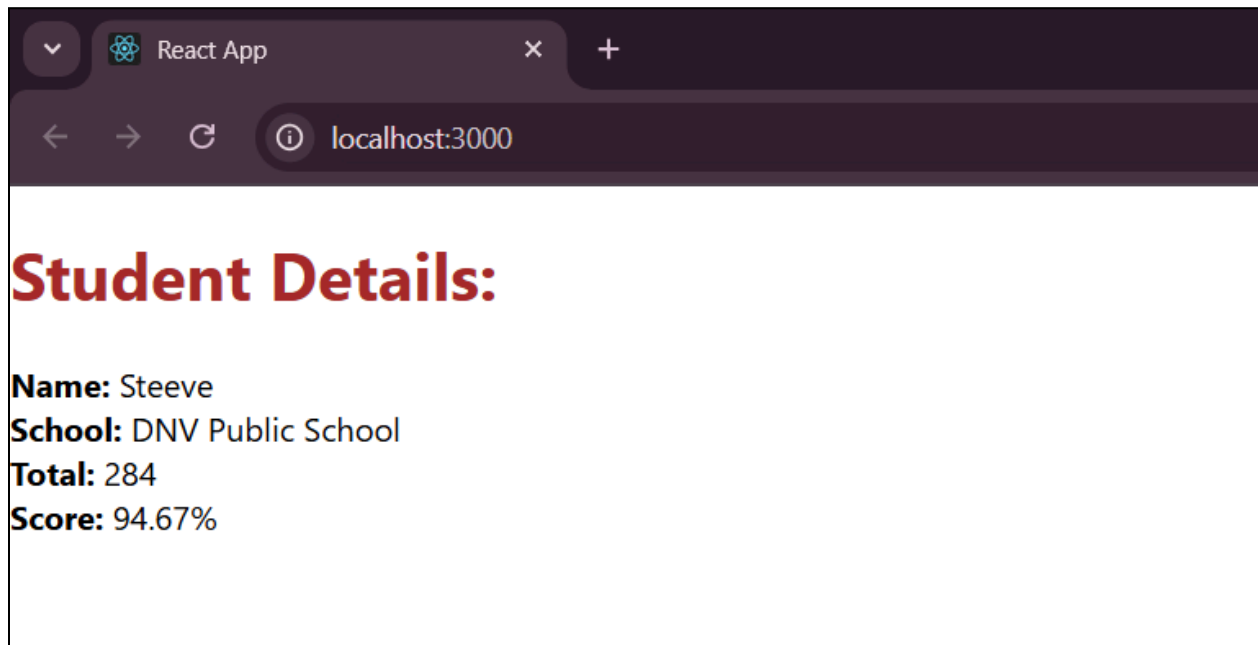
function App() {
    return (

```

```
<div className='container'>
  <CalculateScore
    Name={"Steeve"}
    School={"DNV Public School"}
    total={284}
    goal={3}
  />
</div>
);
}

export default App;
```

### Output:



### App.js

```
import './App.css';
import Posts from './components/Posts';

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

export default App;
```

### Post.js

```
import React from 'react';

class Post extends React.Component {
  render() {
    return (
      <div>
        <h2>{this.props.title}</h2>
        <p>{this.props.body}</p>
      </div>
    );
  }
}

export default Post;
```

### Posts.js

```
import React from 'react';
import Post from './Post';

class Posts extends React.Component {
  constructor(props) {
    super(props);
  }
}
```

```
    this.state = {
      posts: []
    };
  }

  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);
      });
  }

  componentDidMount() {
    this.loadPosts();
  }

  componentDidCatch(error, info) {
    alert('An error occurred: ' + error.toString());
  }

  render() {
    return (
      <div>
        <h1>Blog Posts</h1>
        {this.state.posts.map(post => (
          <Post key={post.id} title={post.title} body={post.body} />
        ))}
      </div>
    );
  }
}

export default Posts;
```



## Output:



## Exercise 5:

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.

### App.js

```
import React from 'react';
import './App.css';
import CohortDetails from './CohortDetails';

function App() {
  return (
    <div className="App">
      <CohortDetails name="React Cohort" instructor="Alice"
status="ongoing" />
      <CohortDetails name="Spring Boot Cohort" instructor="Bob"
status="completed" />
    </div>
  );
}

export default App;
```

### CohortDetails.js

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

function CohortDetails({ name, instructor, status }) {
  const headingStyle = {
    color: status === 'ongoing' ? 'green' : 'blue'
  };

  return (
    <div className={styles.box}>
      <h3 style={headingStyle}>{name}</h3>
      <dl>
        <dt>Instructor:</dt>
        <dd>{instructor}</dd>
        <dt>Status:</dt>
        <dd>{status}</dd>
      </dl>
    </div>
  );
}

export default CohortDetails;
```

### 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;
}
```

## Output:

