

## WEEK 6

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# REACTJS

### Exercise 1:

#### In cmd:

```
npx create-react-app myfirstreact
```

```
cd myfirstreact code .
```

```
App.js import React
```

```
from 'react'; function
```

```
App() { return (
```

```
  <div>
```

```
    <h1>Welcome to the first session of React</h1>
```

```
  </div>
```

```
);
```

```
}
```

**In Terminal: npm start**

#### Output:

```
Welcome to the first session of React
```

### Exercise 2:

```

In components Home.js import React, {
Component } from 'react'; class Home
extends Component {
  render() { return <h2>Welcome to the Home page of Student Management
Portal</h2>;
  }
} About.js import React, { Component } from 'react'; class About extends
Component { render() { return <h2>Welcome to the About page of the Student
Management Portal</h2>;
  } } export default
About;

```

```

Contact.js import React, { Component } from 'react'; class Contact extends
Component { render() { return <h2>Welcome to the Contact page of the Student
Management Portal</h2>;
  } } export default
Contact; App.js
import React from
'react'; import Home
from
'./Components/Home';
import About from
'./Components/About';
import Contact from
'./Components/Contact
'; function App() {
return (
  <div className="App">
    <Home />
    <About />
    <Contact />

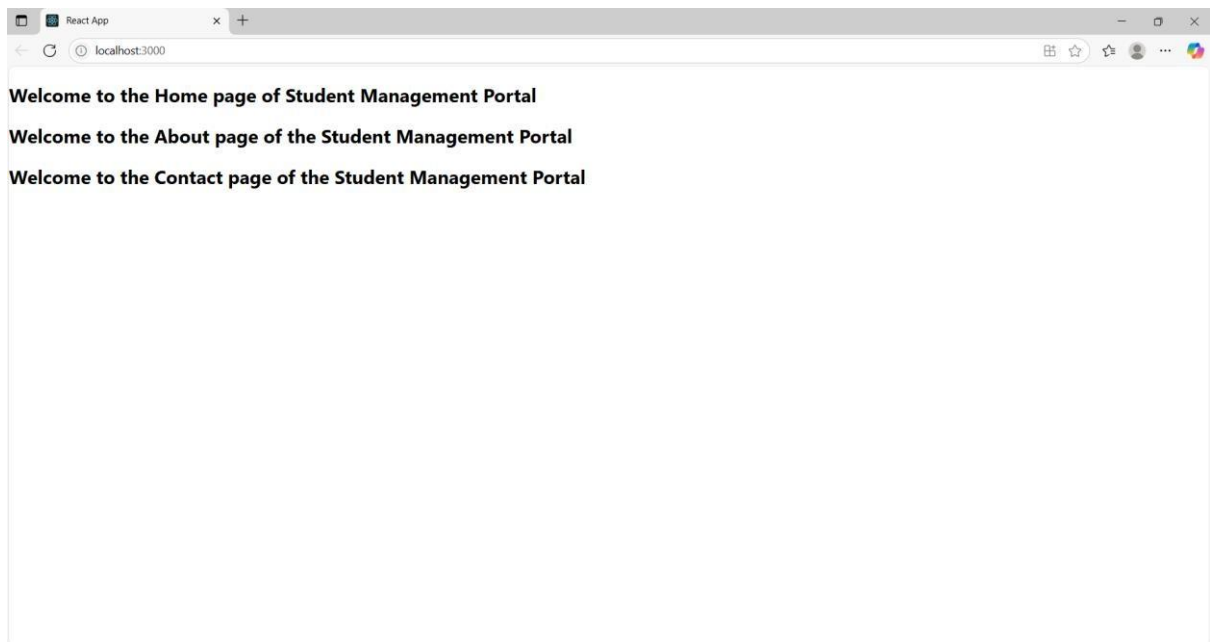
```

```
    </div>

  );
} export default
App;
```

**In terminal: npm start**

**Output:**



**Exercise 3: In**

**Terminal:**

```
npx create-react-app scorecalculatorapp
cd scorecalculatorapp code .
```

**In components**

**CalculateScore.js** import React from

```
'react'; import
```

```
'../Stylesheets/mystyle.css'; function
```

```
CalculateScore(props) {  const average
```

```
= props.total / props.goal;  return (
```

```

<div className="score-box">
  <h2>Student Score Details</h2>
  <p><strong>Name:</strong> {props.name}</p>
  <p><strong>School:</strong> {props.school}</p>
  <p><strong>Total Marks:</strong> {props.total}</p>
  <p><strong>Goal:</strong> {props.goal}</p>
  <p className="result"><strong>Average Score:</strong> {average.toFixed(2)}</p>
</div>

);
} export default
CalculateScore;

```

## In Stylesheet Folder

### Mystyle.css

```

.score-box { border: 2px
solid #4CAF50; border-
radius: 10px; padding:
20px; margin: 40px auto;
width: 60%; background-
color: #f9f9f9; font-family:
Arial, sans-serif; box-
shadow: 0px 4px 10px
rgba(0, 0, 0, 0.1);
} .score-box h2 {
color: #4CAF50;
text-align: center;
} .score-box p {
font-size: 16px;
margin: 10px 0;
}
.result { color:
#d9534f; font-
weight: bold;

```

```
}
```

### App.js

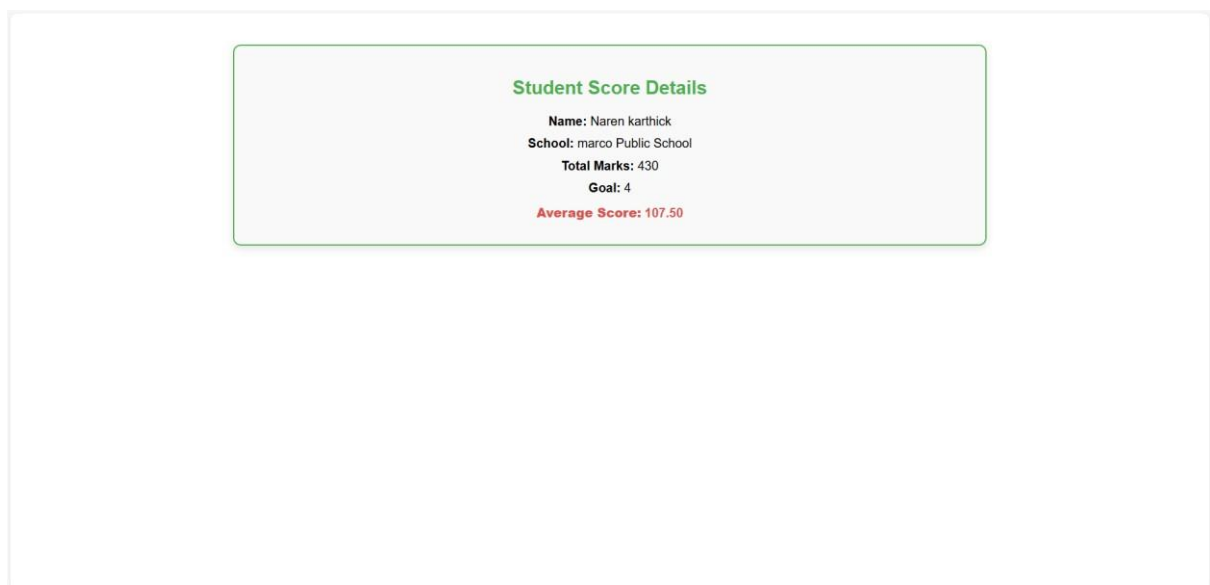
```
import React from 'react'; import './App.css'; import
CalculateScore from './Components/CalculateScore';

function App() { return (
  <div className="App">
    <CalculateScore
      name="Naren karthick"
      school="marco Public School"
      total={430}      goal={4}
    />
  </div>
);
}
```

```
export default App;
```

In terminal: npm start

### Output:



### Exercise 4: In Terminal:

```
npx create-react-app
```

```
blogapp cd blogapp code .
```

## **In components Post.js**

```
import React from 'react';

function Post({ title, body }) {
  return (
    <div style={{ border: "1px solid #ccc", padding: "10px", marginBottom: "10px" }}>
      <h3>{title}</h3>
      <p>{body}</p>
    </div>
  );
}

export default Post;
```

```
Posts.js import React, { Component }
from 'react'; import Post from './Post';
class Posts extends Component {
  constructor(props) { super(props);
  this.state = { posts: [], hasError:
  false,
    };
  }
  loadPosts = async () => {
    try { const response = await
  fetch('https://jsonplaceholder.typicode.com/posts'); const data = await
  response.json(); this.setState({ posts: data });
    } catch (error) {
  console.error('Fetch error:', error);
  this.setState({ hasError: true });
    }
  };
  componentDidMount() {
    this.loadPosts();
  }
}
```

```

    componentDidCatch(error, info) {
this.setState({ hasError: true });  alert("Something
went wrong: " + error.message);

    }  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;

```

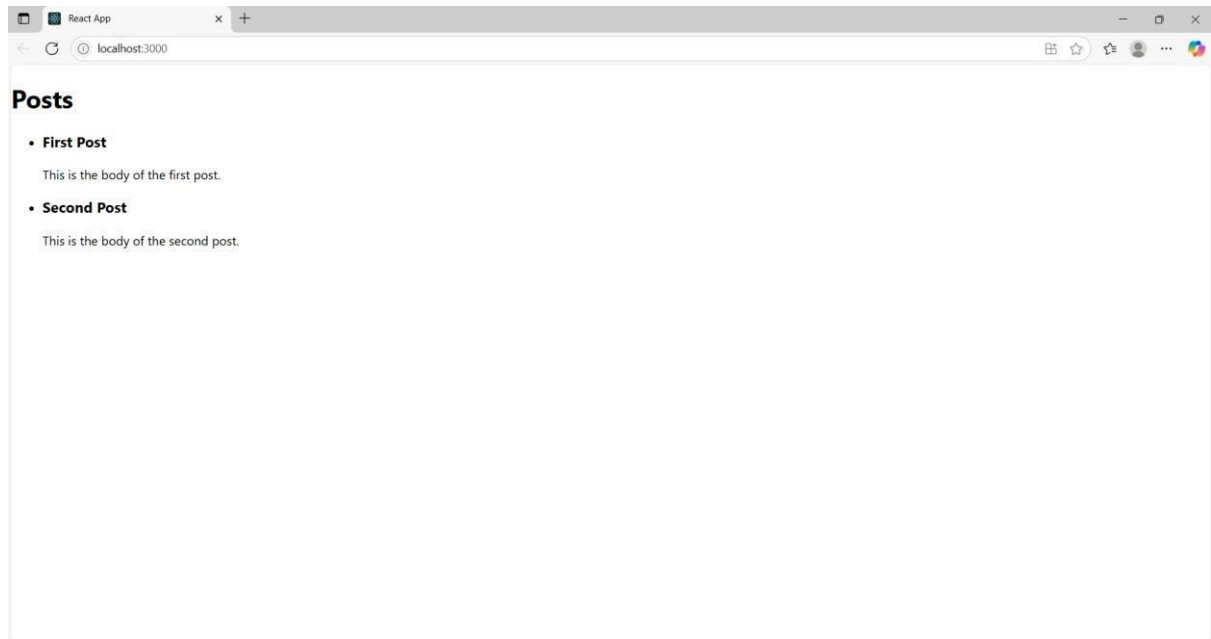
```

App.js import React from
'react'; import './App.css';
import Posts from './Posts';
function App() {  return (
    <div className="App">
        <h1>Blog Application</h1>
        <Posts />
    </div>
    );
} export default
App;

```

In the terminal: npm start

## Output:



### Exercise 6: In Terminal: npx

create-react-app TrainersApp cd

TrainersApp code .

**In src: Trainer.js**

```
class Trainer {
  constructor(trainerId, name,
    email, phone, technology, skills) {
    this.trainerId = trainerId;
    this.name = name;
    this.email = email;
    this.phone = phone;
    this.technology = technology;
    this.skills = skills;
  }
}
```

export default Trainer;

**TrainersMock.js** import

Trainer from './Trainer'; const

trainers = [



```

    new Trainer(1, "John Doe", "john@example.com", "1234567890", "Java", ["Spring",
"Hibernate"]),

    new Trainer(2, "Jane Smith", "jane@example.com", "9876543210", "Python", ["Flask",
"Django"]),

    new Trainer(3, "Michael Brown", "michael@example.com", "4567891230", "React",
["Hooks", "Redux"])

];

export default trainers;

```

**In terminal : npm install react-router-dom**

```

TrainerList.js import React from 'react';
import { Link } from 'react-router-dom';
const TrainerList = ({ trainers }) => {
return (
  <div>
    <h2>Trainers List</h2>
    <ul>
      {trainers.map(trainer => (
        <li key={trainer.trainerId}>
          <Link to={`/${trainers}/${trainer.trainerId}`}>{trainer.name}</Link>
        </li>
      ))}
    </ul>
  </div>
);
};

export default TrainerList; Home.js
import React from 'react'; const
Home = () => {
  return (
    <div>
      <h1>Welcome to Cognizant Academy</h1>

```

```

    <p>Explore trainers and their expertise!</p>
  </div>

);
}; export default Home; TrainerDetails.js import React from
'react'; import { useParams } from 'react-router-dom'; import
trainers from './TrainersMock'; const TrainerDetails = () => {
const { id } = useParams(); const trainer = trainers.find(t =>
t.trainerId === parseInt(id)); if (!trainer) return <p>Trainer
not found</p>; return (
  <div>
    <h2>{trainer.name}</h2>
    <p><strong>Email:</strong> {trainer.email}</p>
    <p><strong>Phone:</strong> {trainer.phone}</p>
    <p><strong>Technology:</strong> {trainer.technology}</p>
    <p><strong>Skills:</strong> {trainer.skills.join(', ')}</p>
  </div>
);
};
export default TrainerDetails; App.js import React from 'react'; import {
BrowserRouter as Router, Routes, Route, Link } from 'react-router-dom'; import
Home from './Home'; import TrainerList from './TrainerList'; import
TrainerDetails from './TrainerDetails'; import trainers from './TrainersMock';
function App() { return (
  <Router>
    <nav>
      <Link to="/">Home</Link> |
      <Link to="/trainers">Trainers</Link>
    </nav>
    <Routes>
      <Route path="/" element={<Home />} />
      <Route path="/trainers" element={<TrainerList trainers={trainers} />} />

```

```
    <Route path="/trainers/:id" element={<TrainerDetails />} />  
  </Routes>  
</Router>  
);  
} export default App;
```

In terminal: npm start

## Output:

