# WEEK 6

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# St. Joseph's Institute of Technology

**Superset ID: 6377320** 

REACTJS
Exercise 1:
In cmd:
npx create-react-app myfirstreact
cd myfirstreact
code.
App.js
import React from 'react';
function App() {
return (
<div></div>
<h1>Welcome to the first session of React</h1>
);
}
In Terminal: npm start
Output:
Welcome to the first session of React

#### Exercise 2:

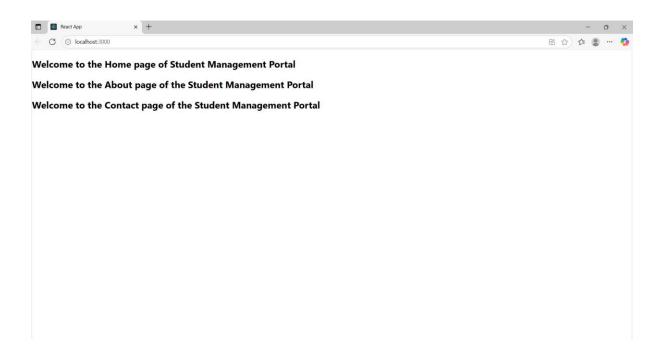
## In components

```
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

# In terminal: npm start

## **Output:**



#### Exercise 3:

#### In Terminal:

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

#### In components

# CalculateScore.js

padding: 20px;

width: 60%;

margin: 40px auto;

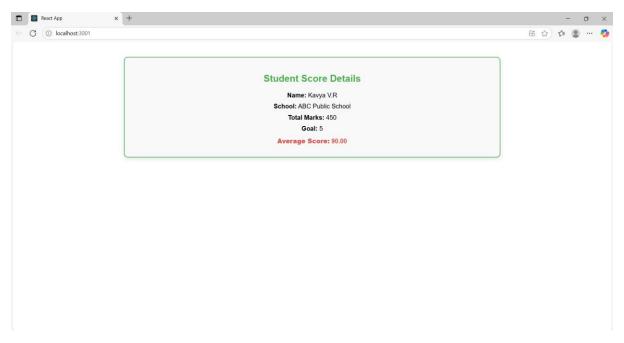
```
import React from 'react';
import '../Stylesheets/mystyle.css';
function CalculateScore(props) {
 const average = props.total / props.goal;
 return (
  <div className="score-box">
   <h2>Student Score Details</h2>
   <strong>Name:</strong> {props.name}
   <strong>School:</strong> {props.school}
   <strong>Total Marks:</strong> {props.total}
   <strong>Goal:</strong> {props.goal}
   <strong>Average Score:</strong> {average.toFixed(2)}
  </div>
);
}
export default CalculateScore;
In Stylesheet Folder
Mystyle.css
.score-box {
 border: 2px solid #4CAF50;
 border-radius: 10px;
```

```
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="Kavya V.R"
     school="ABC Public School"
     total = \{450\}
    goal = \{5\}
   />
  </div>
 );
```

export default App;

In terminal: npm start

# **Output:**



## **Exercise 4:**

## In Terminal:

npx create-react-app blogapp cd blogapp code .

## In components

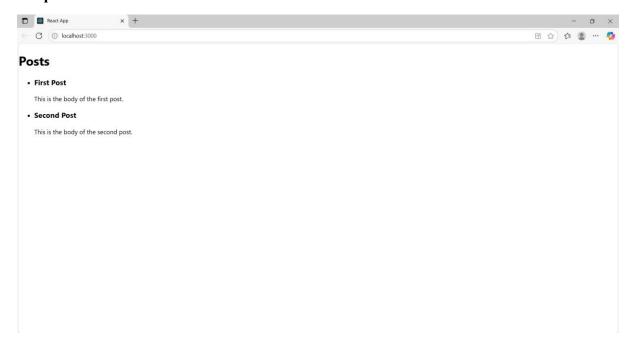
#### Post.js

```
}
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>
     \{\text{this.state.posts.slice}(0, 10).\text{map}(\text{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

```
};
export default TrainerList;
Home.js
import React from 'react';
const Home = () \Rightarrow \{
 return (
  <div>
   <h1>Welcome to Cognizant Academy</h1>
   Explore trainers and their expertise!
  </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 Trainer not found;
 return (
  <div>
   <h2>{trainer.name}</h2>
   <strong>Email:</strong> {trainer.email}
   <strong>Phone:</strong> {trainer.phone}
   <strong>Technology:</strong> {trainer.technology}
   <strong>Skills:</strong> {trainer.skills.join(', ')}
  </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:
```

