

WEEK-6

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.

- Created a react app in the terminal using the command,
npm install -g create-react-app
- Created a react application with the name “myfirstreact”
npx create-react-app myfirstreact
- src/[App.js](#)

```
function App() {  
  return (  
    <div>  
      <h1>Hello, Welcome to My First React App!</h1>  
    </div>  
  );  
}  
export default App;
```

Output:



Hello, Welcome to My First React App!

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.

- src/Component/[Home.js](#)

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

```
export class Home extends Component {
```

```
  render() {
```

```
    return (  
      <div>
```

```
        <h3>Welcome to the Home Page of Student Management Portal</h3>
```

```
    </div>
  );
}
}
```

- src/Component/About.js

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

export class About extends Component {
  render() {
    return (
      <div>
        <h3>Welcome to the About Page of Student Management Portal</h3>
      </div>
    );
  }
}
```

- src/Component/Contact.js

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

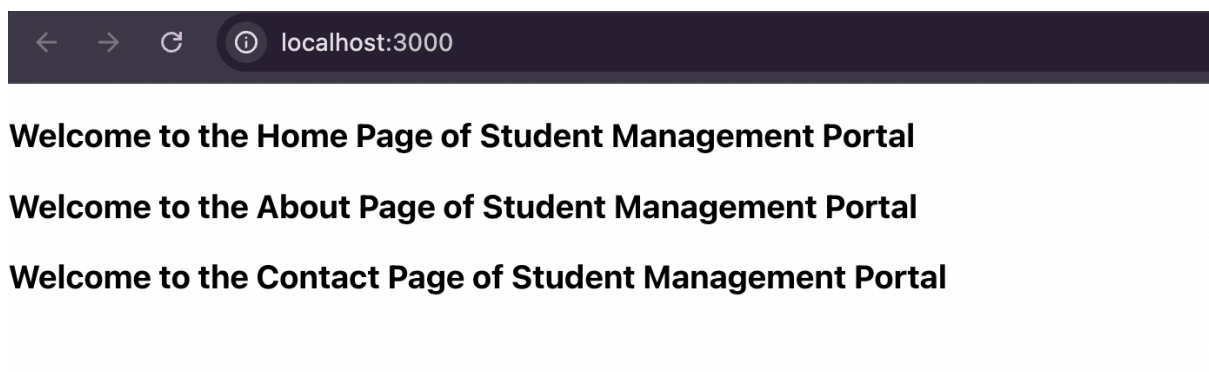
export class Contact extends Component {
  render() {
    return (
      <div>
        <h3>Welcome to the Contact Page of Student Management Portal</h3>
      </div>
    );
  }
}
```

- App.js

```
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;
```

Output:



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.

- `src/Components/CalculateScore.js`

```
import './StyleSheets/mystyle.css'
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>
)
```

```

</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>
)

```

- src/StyleSheets/mystyle.css

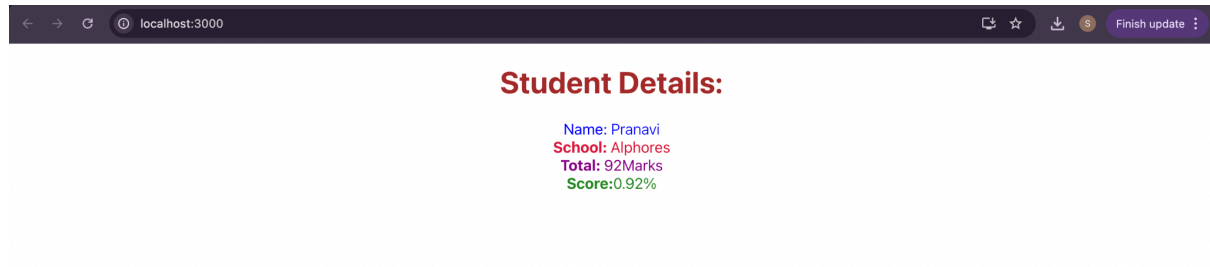
```

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

```

```
}  
.Score  
{  
color:forestgreen;  
}
```

Output:



4. BlogApp

- [Post.js](#)

```
import React from 'react';  
  
function Post(props) {  
  return (  
    <div>  
      <h3>{props.title}</h3>  
      <p>{props.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: [],
```

```

    };
  }

  loadPosts = () => {
    fetch('https://jsonplaceholder.typicode.com/posts')
      .then((res) => res.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);
  }

  render() {
    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 './App.css';
import Posts from './Posts';

```

```

function App() {

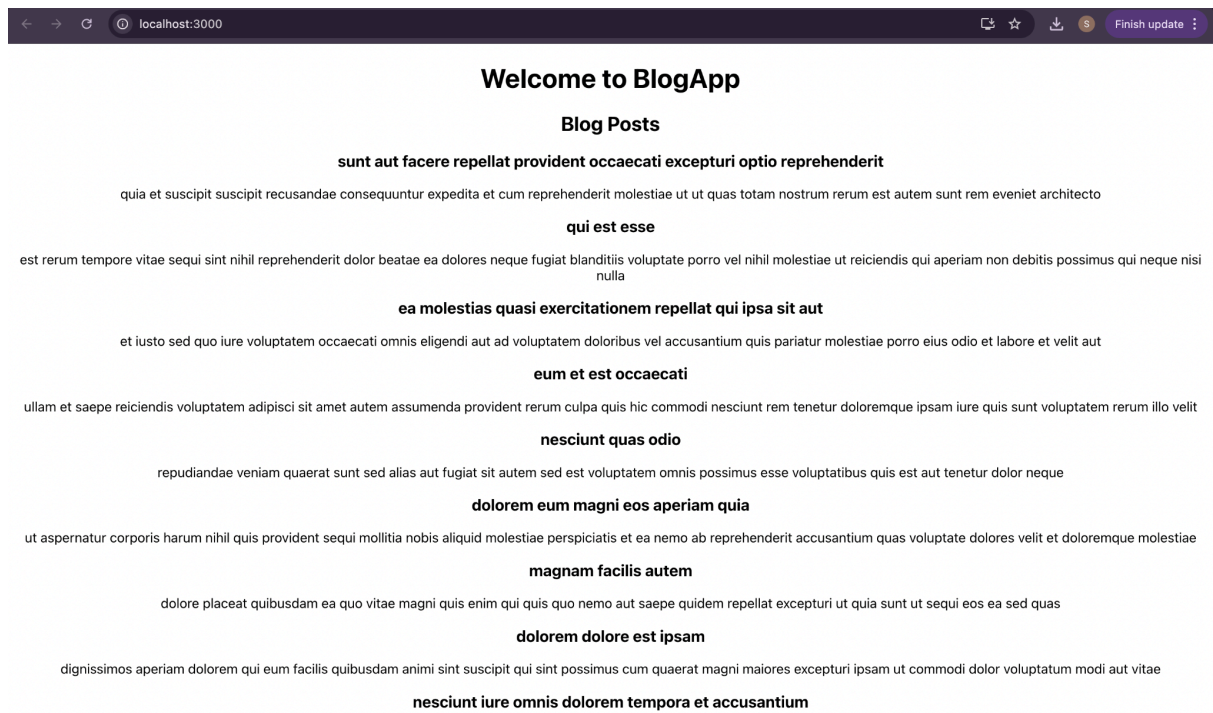
```

```

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

```

Output:



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.

- src/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;

}
```

- CohortDetails.js

```
import React from "react";
```

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

```
function CohortDetails({ cohort }) {
```

```
  const statusStyle = {
```

```
    color: cohort.status.toLowerCase() === "ongoing" ? "green" : "blue"
```

```
  };
```

```
  return (
```

```
    <div className={styles.box}>
```

```
      <h3 style={statusStyle}>{cohort.name}</h3>
```

```
      <dl>
```

```
        <dt>Start Date:</dt>
```

```
        <dd>{cohort.startDate}</dd>
```

```
        <dt>End Date:</dt>
```

```
        <dd>{cohort.endDate}</dd>
```

```
        <dt>Status:</dt>
```

```
        <dd>{cohort.status}</dd>
```

```
      </dl>
```



```
</div>
```

```
);
```

```
}
```

```
export default CohortDetails;
```

- App.js

```
import React from "react";
```

```
import CohortDetails from "../CohortDetails";
```

```
function App() {
```

```
  const cohorts = [
```

```
    {
```

```
      name: "React Bootcamp",
```

```
      startDate: "2025-07-01",
```

```
      endDate: "2025-08-15",
```

```
      status: "Ongoing"
```

```
    },
```

```
    {
```

```
      name: "Java Fullstack",
```

```
      startDate: "2025-05-01",
```

```
      endDate: "2025-06-15",
```

```
      status: "Completed"
```

```
    }
```

```
  ];
```

```
  return (
```

```
    <div>
```

```
      <h2>My Academy Cohorts</h2>
```

```
      {cohorts.map((cohort, index) => (
```

```
        <CohortDetails key={index} cohort={cohort} />

      )}

    </div>

  );

}

export default App;
```

Output:

