

WEEK 6 ASSIGNMENT : REACT APP CREATION

1.Creating first react app

Code: App.js

```
import React from 'react';
import './App.css'; // make sure this is imported
function App() {
  return (
    <div className="center">
      <h1>Welcome to the first session of React</h1>
    </div>
  );
}
export default App;
```

App.css

```
.center {
  display: flex; justify-
  content: center; align-
  items: flex-start; margin-
  top: 50px; height:
  100vh; background-
  color: #f0f0f0;
}
```

OUTPUT:

localhost:3000

Welcome to the first session of React

2. Student Management Portal – React Application

Code:

Home.js

```
import React from 'react';

function Home() {

  return (

    <div>

      <h1>Welcome to the Home page of Student Management Portal</h1>

    </div>

  );

}

export default Home;
```

About.js

```
import React from 'react';

function About() {

  return (

    <div>

      <h1>Welcome to the About page of the Student Management Portal</h1>

    </div>

  );

}

export default About;
```

Contact.js

```
import React from 'react';

function Contact() {

  return (

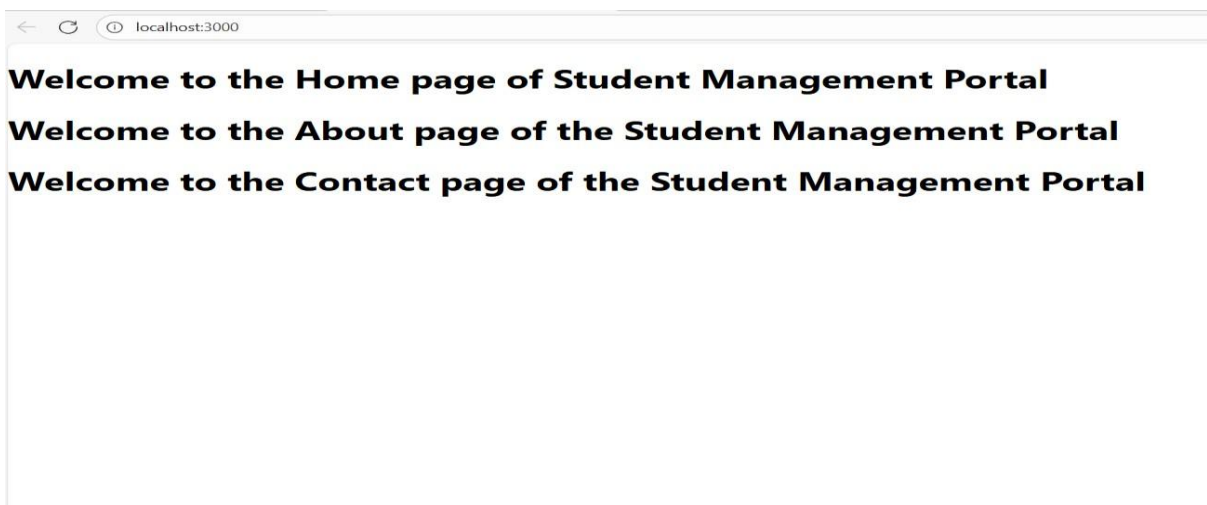
    <div>

      <h1>Welcome to the Contact page of the Student Management Portal</h1>

    </div>
```

```
);  
}  
export default Contact;  
  
App.js  
import React from 'react';  
import Home from './Home';  
import About from './About';  
import Contact from './Contact';  
function App() { return (  
  <div>  
    <Home />  
    <About />  
    <Contact />  
  </div>  
);  
}  
export default App;
```

OUTPUT:



3.Calculating Average Score-React Application

Code:

CalculateScore.js

```
import React, { useState } from 'react';
import '../Stylesheets/mystyle.css';
function CalculateScore() {
  const [name, setName] = useState("");
  const [school, setSchool] = useState("");
  const [total, setTotal] = useState("");
  const [goal, setGoal] = useState("");
  const [average, setAverage] = useState(null);

  const handleCalculate = () => {
    const totalNum = parseFloat(total);
    const goalNum = parseFloat(goal);

    if (!name || !school || isNaN(totalNum) || isNaN(goalNum) || totalNum <= 0) {
      alert('Please enter valid inputs');
      return;
    }

    // average = (goal / total) * 100
    const avgScore = (goalNum / totalNum) * 100;
    setAverage(avgScore.toFixed(2));
  };

  return (
    <div className="container">
```

```
<h2>Student Score Calculator</h2>
```

```
<div className="form-group">
```

```
  <label>Name:</label>
```

```
  <input type="text" value={name} onChange={(e) => setName(e.target.value)}
```

```
  . placeholder="Enter student name"
```

```
  />
```

```
</div>
```

```
<div className="form-group">
```

```
  <label>School:</label>
```

```
  <input type="text" value={school} onChange={(e) => setSchool(e.target.value)}
```

```
  . placeholder="Enter school name"
```

```
  />
```

```
</div>
```

```
<div className="form-group">
```

```
  <label>Total Marks:</label>
```

```
  <input type="number" value={total} onChange={(e) => setTotal(e.target.value)}
```

```
  placeholder="Enter total marks"
```

```
  />
```

```
</div>
```

```
<div className="form-group">
```

```
  <label>Goal Marks:</label>
```

```
  <input type="number" value={goal} onChange={(e) => setGoal(e.target.value)}
```

```
  placeholder="Enter goal marks"
```

```
  />
```

```
</div>
```

```
<button onClick={handleCalculate}>Calculate Average Score</button>
```

```
{average !== null && (
```

```
<div className="result">
```

```
<h3>Result</h3>
```

```
<p>
```

```
  Student <strong>{name}</strong> from <strong>{school}</strong> has  
an average score of <strong>{average}%</strong>.
```

```
</p>
```

```
</div>
```

```
)}
```

```
</div>
```

```
);
```

```
}
```

```
export default CalculateScore;
```

```
mystyle.css
```

```
.container {
```

```
max-width: 400px;
```

```
margin: 30px auto;
```

```
padding: 20px;
```

```
border: 2px solid #4caf50;
```

```
border-radius: 8px;
```

```
background-color: #f9f9f9;
```

```
font-family: Arial, sans-serif;
```

```
}
```

```
h2 {
```

```
text-align: center;
color: #4caf50;
}
```

```
.form-group {
margin-bottom: 15px;
}
```

```
label {
display: block;
margin-bottom: 6px;
font-weight: bold;
}
```

```
input[type="text"],
input[type="number"] {
width: 100%;

padding: 8px;

box-sizing: border-box; }
```

```
button {
background-color: #4caf50;
color: white;
padding: 10px 15px;
border: none;
border-radius: 4px;
cursor: pointer;
width: 100%;
```

```
font-size: 16px;
```

```
}
```

```
button:hover {
```

```
background-color: #45a049;
```

```
}
```

```
.result {
```

```
margin-top: 20px;
```

```
padding: 15px;
```

```
background-color: #dff0d8;
```

```
border: 1px solid #3c763d;
```

```
border-radius: 5px;
```

```
color: #3c763d;
```

```
font-weight: bold;
```

```
}
```

App.js

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

```
import CalculateScore from './Components/CalculateScore';
```

```
function App() {
```

```
  return (
```

```
    <div>
```

```
      <CalculateScore />
```

```
    </div>
```

```
  );
```

```
}
```


export default App;

OUTPUT:

Student Score Calculator

Name:

School:

Total Marks:

Goal Marks:

Calculate Average Score

Result

Student **Roshini** from **ABC School** has an average score of **112.50%**.

4.BLOG APP- React Application

Code: Post.js

```
class Post {  
  constructor(id, title, body) {  
    this.id = id;  
    this.title = title;  
    this.body = body;  
  }  
}  
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: [],  
      error: null  
    };  
  }  
  
  // Method to fetch posts using Fetch API  
  loadPosts() {  
    fetch('https://jsonplaceholder.typicode.com/posts')  
      .then(response => {  
        if (!response.ok) {  
          throw new Error('Network response was not OK');  
        }  
      })  
      .then(() => {  
        // Fetch posts and set state  
      })  
      .catch(error => {  
        // Handle error  
      })  
  }  
}
```

```

    }
    return response.json();
  })
  .then(data => {
    // Convert JSON data to array of Post instances
    const posts = data.map(p => new Post(p.id, p.title, p.body));
    this.setState({ posts });
  })
  .catch(error => {
    this.setState({ error });
  });
}

// Called automatically after component is mounted
componentDidMount() {
  this.loadPosts();
}

// Catch any error in rendering
componentDidCatch(error, info) {
  alert('An error occurred: ' + error.message);
}

render() {
  const { posts, error } = this.state;

  if (error) {
    return <h2>Error loading posts</h2>;
  }

```

```
return (  
  <div>  
    <h1>Blog Posts</h1>  
    {posts.map(post => (  
      <div key={post.id} style={{ border: '1px solid #ccc', marginBottom: '10px', padding:  
'10px' }}>  
        <h2>{post.title}</h2>  
        <p>{post.body}</p>  
      </div>  
    ))}  
  </div>  
);  
}  
}
```

export default Posts;

App.js

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

OUTPUT:

Blog Posts

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5.Cohort Dashboard with Conditional Styling-React Application

Code:

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'; // Import the CSS module  
  
function CohortDetails({ cohort }) {  const { name, trainer,  
status, startDate, endDate } = cohort;  
  
  // Determine the color for the <h3> based on cohort status  
  const titleColor = status.toLowerCase() === 'ongoing' ? 'green' : 'blue';  
  
  return (  
    <div className={styles.box}>  
      <h3 style={{ color: titleColor }}>{name}</h3>  
      <dl>  
        <dt>Trainer:</dt>
```

```
        <dd>{trainer}</dd>
        <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;
```

App.js

```
import React from 'react';
import CohortDetails from './components/CohortDetails';

function App() {
  const cohorts = [
    {
      name: 'React Bootcamp', trainer: 'John Doe', status: 'ongoing', startDate: '2025-07-01',
      endDate: '2025-08-01',
    },
    {
      name: 'Node.js Mastery', trainer: 'Jane Smith', status: 'completed', startDate: '2025-05-15',
      endDate: '2025-06-15',
    },
  ];

  return (
    <div>
      {
```

```
    cohorts.map((cohort, index) => (  
      <CohortDetails key={index} cohort={cohort} />  
    )))  
  </div>  
);  
}  
export default App;
```

OUTPUT:

