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WEEK – 6 REPORT

1) ReactJS – HOL

App.js

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

Output:



Welcome to the first session of React

2) ReactJS – HOL

App.js

```
import Home from './Component/Home';
import About from './Component/About';
import Contact from './Component/Contact';
function App() {
  return (
    <div>
      <h1>Student Management Portal</h1>
      <Home />
      <About />
      <Contact />
    </div>
  );
}
```

Home.js

```
import React, { Component } from 'react';
class Home extends Component {
  render() {
    return (
      <div>
        <h2>Welcome to the Home page of Student Management Portal</h2>
      </div>
    );
  }
}
```

```
export default Home;
```

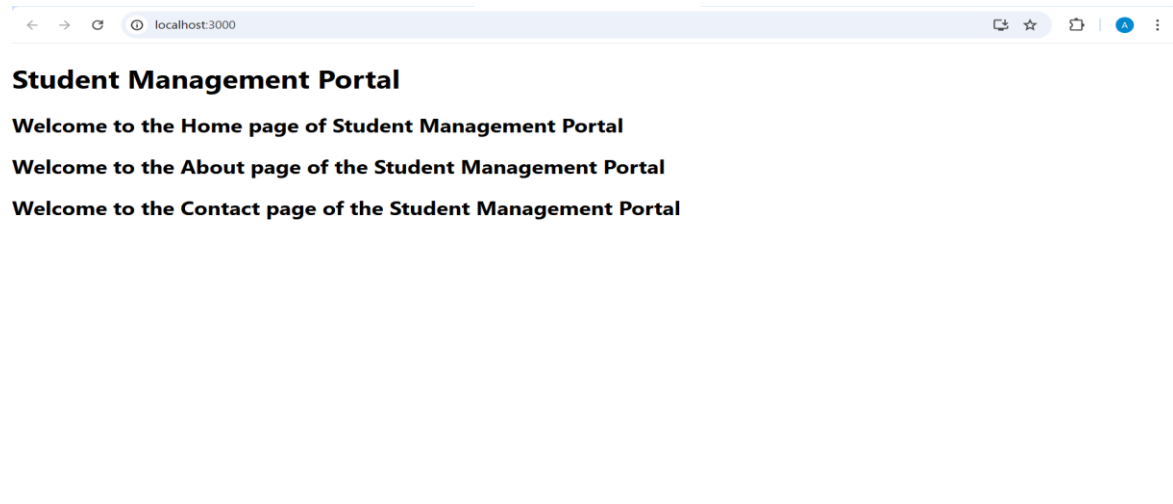
About.js

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

Contact.js

```
import React, { Component } from 'react';  
class Contact extends Component {  
  render() {  
    return (  
      <div>  
        <h2>Welcome to the Contact page of the Student Management  
Portal</h2>  
      </div>  
    );  
  }  
}  
export default Contact;
```

Output :



3) ReactJS – HOL

App.js

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

CalculatorScore.js

```
import React from 'react';
import './Stylesheets/mystyle.css';
```

```
function CalculateScore() {  
  const student = {  
    name: "Anita P",  
    school: "Nirmala Matha Matriculation Higher Secondary School",  
    total: 450,  
    goal: 500  
  };  
  const average = ((student.total / student.goal) * 100).toFixed(2);  
  return (  
    <div className="score-card">  
      <h2>Student Score Summary</h2>  
      <p><strong>Name:</strong> {student.name}</p>  
      <p><strong>School:</strong> {student.school}</p>  
      <p><strong>Total Marks:</strong> {student.total}</p>  
      <p><strong>Goal:</strong> {student.goal}</p>  
      <p><strong>Average Score:</strong> {average}%</p>  
    </div>  
  );  
}  
  
export default CalculateScore;
```

mystyle.css

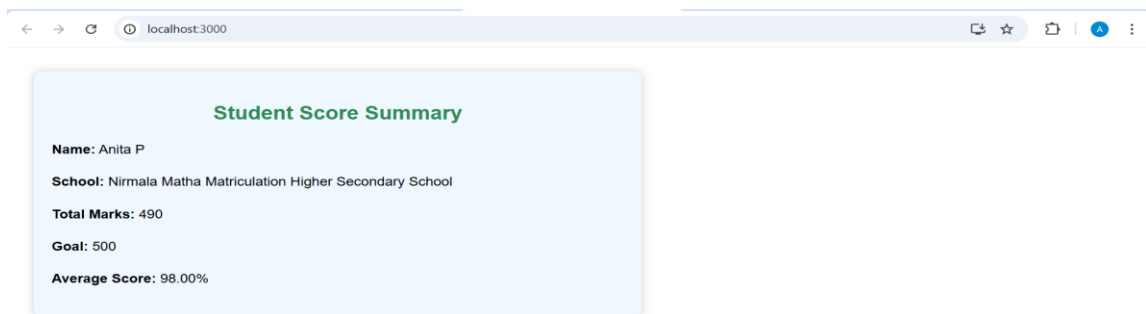
```
.score-card {  
  background-color: #f0f8ff;  
  padding: 20px;  
  margin: 30px;
```

```

border-radius: 10px;
box-shadow: 0px 0px 10px #ccc;
width: 50%;
font-family: Arial, sans-serif;
}
.score-card h2 {
color: #2e8b57;
text-align: center;
}
.score-card p {
font-size: 16px;
line-height: 1.6;
}

```

Output :



4) ReactJS – HOL

Posts.js

```

import React, { Component } from 'react';
import Post from './Post';

```

```
class Posts extends Component {
  constructor(props) {
    super(props);
    this.state = {
      posts: [],
      hasError: false,
    };
  }
  componentDidMount() {
    this.loadPosts();
  }
  loadPosts() {
    fetch('https://jsonplaceholder.typicode.com/posts')
      .then(response => response.json())
      .then(data => this.setState({ posts: data.slice(0, 10) }))
      .catch(error => {
        console.error("Error fetching posts:", error);
        this.setState({ hasError: true });
      });
  }
  componentDidCatch(error, info) {
    alert("An error occurred while rendering posts.");
    console.log("Error:", error, info);
  }
  render() {
    if (this.state.hasError) {
```

```

    return <h2>Something went wrong.</h2>;
  }
  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;

```

Post.js

```

import React from 'react';
function Post(props) {
  return (
    <div className="post">
      <h3>{props.title}</h3>
      <p>{props.body}</p>
    </div>
  );
}
export default Post;

```

App.js


```

import React from 'react';
import Posts from './Posts';

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

export default App;

```

Output :



5) ReactJS – HOL

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

```
function CohortDetails({ cohort }) {
  return (
    <div className={styles.box}>
      <h3 style={{ color: cohort.status === 'ongoing' ? 'green' : 'blue' }}>
        {cohort.name}
      </h3>
      <dl>
        <dt>Start Date</dt>
        <dd>{cohort.startDate}</dd>
        <dt>Status</dt>
        <dd>{cohort.status}</dd>
      </dl>
    </div>
  );
}

export default CohortDetails;
```

App.js

```
import React from 'react';

import CohortDetails from './components/CohortDetails';

function App() {
  const cohorts = [
    { name: "React Cohort", startDate: "2025-06-01", status: "ongoing" },
    { name: "NodeJS Cohort", startDate: "2025-04-15", status: "completed" }
  ];

  return (
    <div className="App">
      {cohorts.map((cohort, index) => (
        <CohortDetails key={index} cohort={cohort} />
      ))}
    </div>
  );
}

export default App;
```

Output :

Cohorts Details		
INTADMDF10 -.NET FSD Started On 22-Feb-2022 Current Status Scheduled Coach Aathma Trainer Jojo Jose	ADM21JF014 -Java FSD Started On 10-Sep-2021 Current Status Ongoing Coach Apoorv Trainer Elisa Smith	CDBJF21025 -Java FSD Started On 24-Dec-2021 Current Status Ongoing Coach Aathma Trainer John Doe

ADDITIONAL EXERCISES

6) ReactJS – HOL

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 style={{ margin: 10 }}>
        <Link to="/" style={{ margin: 10 }}>Home</Link>
        <Link to="/trainers" style={{ margin: 10 }}>Trainers</Link>
      </nav>
      <Routes>
        <Route path="/" element={<Home />} />
        <Route path="/trainers" element={<TrainerList trainers={trainers} />} />
        <Route path="/trainer/:id" element={<TrainerDetails />} />
      </Routes>
    </Router>
  );
}
```

```
}  
  
export default App;
```

Home.js

```
import React from 'react';  
  
function Home() {  
  return (  
    <div>  
      <h1>Welcome to Cognizant Trainer Portal</h1>  
      <p>This portal helps to manage trainer details.</p>  
    </div>  
  );  
}  
  
export default Home;
```

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;
```

TrainerDetails.js

```
import React from 'react';
import { useParams } from 'react-router-dom';
import trainers from './TrainersMock';

function 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;
```

TrainerList.js

```
import React from 'react';
import { Link } from 'react-router-dom';

function TrainerList({ trainers }) {
  return (
```

```

<div>
  <h2>Trainer List</h2>
  <ul>
    {trainers.map(trainer => (
      <li key={trainer.trainerId}>
        <Link to={`/trainer/${trainer.trainerId}`}>{trainer.name}</Link>
      </li>
    ))}
  </ul>
</div>

);
}

export default TrainerList;

```

TrainerMock.js

```

import Trainer from './Trainer';

const trainers = [
  new Trainer(1, 'Anita', 'anita@example.com', '1234567890', 'React',
    ['JavaScript', 'Hooks']),
  new Trainer(2, 'Aishwarya', 'aishu@example.com', '2345678901', 'Angular',
    ['TypeScript', 'RxJS']),
  new Trainer(3, 'Ravikumarshiny', 'ravishiny@example.com', '3456789012',
    'Node.js', ['Express', 'MongoDB'])
];

export default trainers;

```

Output :



7) ReactJS – HOL

App.js

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

OnlineShopping.js

```
import React from 'react';
import Cart from './Cart';
class OnlineShopping extends React.Component {
  render() {
    const items = [
      { itemname: 'Laptop', price: 80000 },
```



```

    { itemname: 'Phone', price: 30000 },
    { itemname: 'Tablet', price: 25000 },
    { itemname: 'Headphones', price: 5000 },
    { itemname: 'Smartwatch', price: 10000 }
  ];

  return (
    <div>
      <h2>Welcome to the Online Shopping App</h2>
      {items.map((item, index) => (
        <Cart key={index} itemname={item.itemname} price={item.price}
      />
      ))}
    </div>
  );
}

export default OnlineShopping;

```

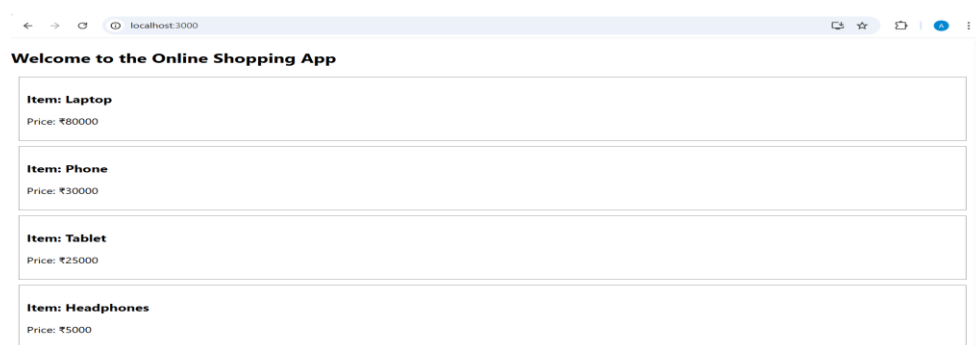
Cart.js

```

import React from 'react';
class Cart extends React.Component {
  render() {
    return (
      <div style={{ border: '1px solid gray', margin: '10px', padding: '10px' }}>
        <h3>Item: {this.props.itemname}</h3>
        <p>Price: ₹{this.props.price}</p>
      </div>
    );
  }
}

```

Output :



8) ReactJS – HOL

App.js

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

CountPeople.js

```
import React from 'react';
class CountPeople extends React.Component {
  constructor(props) {
    super(props);
    // Initial state
    this.state = {
      entryCount: 0,
      exitCount: 0
    };
  }
  UpdateEntry = () => {
    this.setState((prevState) => ({
      entryCount: prevState.entryCount + 1
    }));
  }
}
```

```

    ));
  };

  // Method to update exit count
  UpdateExit = () => {
    this.setState((prevState) => ({
      exitCount: prevState.exitCount + 1
    }));
  };

  render() {
    return (
      <div style={{ padding: '20px', fontFamily: 'Arial' }}>
        <h2>People Counter in Mall</h2>
        <p>People Entered: <strong>{this.state.entryCount}</strong></p>
        <p>People Exited: <strong>{this.state.exitCount}</strong></p>
        <button onClick={this.UpdateEntry} style={{ marginRight: '10px',
padding: '10px' }}>
          Login
        </button>
        <button onClick={this.UpdateExit} style={{ padding: '10px' }}>
          Exit
        </button>
      </div>
    );
  }
}

export default CountPeople;

```

Output :

