1. ReactJS-HOL

**CODE:**

**App.js**  
import React from 'react';

function App() {

return (

<div>

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

</div>

);

}

export default App;

**OUTPUT:**  
A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

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AI-generated content may be incorrect.

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A screenshot of a computer screen

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

1. ReactJs\_HOL

**CODE:**  
**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;

**About.js**

import React, { Component } from 'react';

class About extends Component {

  render() {

    return (

      <div>

        <h2>Welcome to the About page of 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 Student Management Portal</h2>

      </div>

    );

  }

}

export default Contact;

**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;

**OUTPUT:**

A screenshot of a computer

AI-generated content may be incorrect.

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A screenshot of a computer

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1. ReactJS\_HOL

**CODE:**

**App.js**

import React from 'react';

import './App.css';

import CalculateScore from './Components/CalculateScore';

function App() {

  return (

    <div className="App">

      <h1>Student Management Portal</h1>

      <CalculateScore name="Alice" school="Greenwood High" total={480} goal={6} />

    </div>

  );

}

export default App;

**Mystyle.css**

.score-card {

  border: 2px solid #007BFF;

  padding: 20px;

  margin: 20px;

  border-radius: 10px;

  width: 350px;

  font-family: Arial, sans-serif;

  background-color: #f0f8ff;

  box-shadow: 2px 2px 10px rgba(0,0,0,0.1);

}

.score-card h2 {

  color: #007BFF;

}

.score-card p {

  margin: 5px 0;

  font-size: 16px;

}

**CalculateScore.js**

import React from 'react';

import '../Stylesheets/mystyle.css';

function CalculateScore(props) {

  const average = props.total / props.goal;

  return (

    <div className="score-card">

      <h2>Student Score Summary</h2>

      <p><strong>Name:</strong> {props.name}</p>

      <p><strong>School:</strong> {props.school}</p>

      <p><strong>Total Score:</strong> {props.total}</p>

      <p><strong>Number of Subjects:</strong> {props.goal}</p>

      <p><strong>Average Score:</strong> {average.toFixed(2)}</p>

    </div>

  );

}

export default CalculateScore;

**OUTPUT:**  
A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer program

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

1. ReactJS\_HOL

**CODE:**

**App.js**

import React from 'react';

import './App.css';

import Posts from './Posts';

function App() {

  return (

    <div className="App">

      <Posts />

    </div>

  );

}

export default App;

**Post.js**

class Post {

  constructor(userId, id, title, body) {

    this.userId = userId;

    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: [],

      hasError: false

    };

  }

  loadPosts = async () => {

    try {

      const response = await fetch('https://jsonplaceholder.typicode.com/posts');

      const data = await response.json();

      const formattedPosts = data.map(p => new Post(p.userId, p.id, p.title, p.body));

      this.setState({ posts: formattedPosts });

    } catch (error) {

      this.setState({ hasError: true });

      console.error("Failed to fetch posts", error);

    }

  };

  componentDidMount() {

    this.loadPosts();

  }

  componentDidCatch(error, info) {

    alert("An error occurred: " + error);

    console.log("Error details:", info);

  }

  render() {

    if (this.state.hasError) {

      return <h2>Error loading posts.</h2>;

    }

    return (

      <div>

        <h1>Blog Posts</h1>

        {this.state.posts.map(post => (

          <div key={post.id} style={{ borderBottom: "1px solid gray", marginBottom: "10px" }}>

            <h3>{post.title}</h3>

            <p>{post.body}</p>

          </div>

        ))}

      </div>

    );

  }

}

export default Posts;

**OUTPUT:**

**A screenshot of a computer

AI-generated content may be incorrect.**

**A screen shot of a computer

AI-generated content may be incorrect.**

**A screenshot of a computer

AI-generated content may be incorrect.**

1. **ReactJS\_HOL**