**3. ReactJS-HOL**

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.

# 1. Create React App

Open Visual Studio Code Terminal and type the following command:

npx create-react-app scorecalculatorapp

# 2. Create Components Folder and CalculateScore.js

Navigate to: scorecalculatorapp/src/Components/

Create a file named: CalculateScore.js

Paste the following code:

// src/Components/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 handleSubmit = (e) => {  
 e.preventDefault();  
 if (!isNaN(total) && total !== "") {  
 setAverage((parseFloat(total) / 5).toFixed(2));  
 } else {  
 alert("Please enter a valid total score.");  
 }  
 };  
  
 return (  
 <div className="container">  
 <h2>Student Score Calculator</h2>  
 <form onSubmit={handleSubmit}>  
 <input type="text" placeholder="Enter Name" value={name} onChange={e => setName(e.target.value)} required />  
 <input type="text" placeholder="Enter School" value={school} onChange={e => setSchool(e.target.value)} required />  
 <input type="number" placeholder="Enter Total Marks (out of 500)" value={total} onChange={e => setTotal(e.target.value)} required />  
 <input type="text" placeholder="Enter Your Goal" value={goal} onChange={e => setGoal(e.target.value)} required />  
 <button type="submit">Calculate Average</button>  
 </form>  
  
 {average && (  
 <div className="result">  
 <h3>Result</h3>  
 <p><strong>Name:</strong> {name}</p>  
 <p><strong>School:</strong> {school}</p>  
 <p><strong>Total Marks:</strong> {total}</p>  
 <p><strong>Goal:</strong> {goal}</p>  
 <p><strong>Average Score:</strong> {average}</p>  
 </div>  
 )}  
 </div>  
 );  
}  
  
export default CalculateScore;

# 3. Create Stylesheets Folder and mystyle.css

Navigate to: scorecalculatorapp/src/Stylesheets/

Create a file named: mystyle.css

Paste the following code:

/\* src/Stylesheets/mystyle.css \*/  
.container {  
 width: 400px;  
 margin: auto;  
 padding: 20px;  
 border-radius: 10px;  
 background-color: #f0f8ff;  
 box-shadow: 0 0 10px rgba(0,0,0,0.1);  
}  
  
h2 {  
 text-align: center;  
 color: #333;  
}  
  
form {  
 display: flex;  
 flex-direction: column;  
 gap: 10px;  
}  
  
input, button {  
 padding: 10px;  
 font-size: 16px;  
}  
  
button {  
 background-color: #4caf50;  
 color: white;  
 border: none;  
 cursor: pointer;  
}  
  
button:hover {  
 background-color: #45a049;  
}  
  
.result {  
 margin-top: 20px;  
 background-color: #e6f7ff;  
 padding: 15px;  
 border-radius: 5px;  
}

# 4. Edit App.js to Use CalculateScore

Open: scorecalculatorapp/src/App.js

Replace everything with:

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

# 5. Run the App

In the terminal, navigate to the project folder and run:

cd scorecalculatorapp

npm start

# 6. Open in Browser

In your browser, type the following address:

http://localhost:3000