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**ReactJS HOL3**

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 a React project named “scorecalculatorapp” type the following command in terminal of Visual studio:



1. Create a new folder under Src folder with the name “Components”. Add a new file named “CalculateScore.js”
2. Type the following code in 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 = () => {

    if (total && goal && !isNaN(total) && !isNaN(goal)) {

      const avg = parseFloat(total) / parseFloat(goal);

      setAverage(avg.toFixed(2));

    } else {

      alert("Please enter valid numeric values for Total and Goal.");

    }

  };

  return (

    <div className="score-card">

      <h2>Student Score Calculator</h2>

      <input type="text" placeholder="Enter Name" value={name} onChange={e => setName(e.target.value)} />

      <input type="text" placeholder="Enter School" value={school} onChange={e => setSchool(e.target.value)} />

      <input type="number" placeholder="Enter Total Marks" value={total} onChange={e => setTotal(e.target.value)} />

      <input type="number" placeholder="Enter Number of Subjects" value={goal} onChange={e => setGoal(e.target.value)} />

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

      {average && (

        <div className="result">

          <h3>Result:</h3>

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

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

          <p><strong>Average Score:</strong> {average}</p>

        </div>

      )}

    </div>

  );

}

export default CalculateScore;

A screenshot of a computer screen

AI-generated content may be incorrect.

1. Create a Folder named Stylesheets and add a file named “mystyle.css” in order to add some styles to the components:
2. .score-card {
3. width: 400px;
4. margin: 40px auto;
5. padding: 20px;
6. background-color: #f3f3f3;
7. border-radius: 10px;
8. text-align: center;
9. box-shadow: 0 0 10px #ccc;
10. }
11. .score-card input {
12. width: 80%;
13. margin: 10px 0;
14. padding: 10px;
15. font-size: 16px;
16. }
17. .score-card button {
18. padding: 10px 20px;
19. background-color: #0b5ed7;
20. color: white;
21. border: none;
22. cursor: pointer;
23. margin-top: 10px;
24. border-radius: 5px;
25. }
26. .score-card button:hover {
27. background-color: #084298;
28. }
29. .result {
30. margin-top: 20px;
31. text-align: left;
32. }
33. Edit the App.js to invoke the CalculateScore functional component as follows:
34. import React from 'react';
35. import './App.css';
36. import CalculateScore from './Components/CalculateScore';
37. function App() {
38. return (
39. <div className="App">
40. <CalculateScore />
41. </div>
42. );
43. }
44. export default App;
45. In command Prompt, navigate into scorecalculatorapp and execute the code by typing the following command:



1. Open browser and type “localhost:3000” in the address bar:

A screenshot of a computer

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