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

// 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 handleCalculate = () => {

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

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

      return;

    }

    const avg = (parseFloat(total) / parseFloat(goal)).toFixed(2);

    setAverage(avg);

  };

return (

    <div className="score-container">

      <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="text"

        placeholder="Enter Total Marks"

        value={total}

        onChange={(e) => setTotal(e.target.value)}

      />

      <input

        type="text"

        placeholder="Enter Goal Marks"

        value={goal}

        onChange={(e) => setGoal(e.target.value)}

      />

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

      {average !== null && (

        <div className="result">

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

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

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

        </div>

      )}

    </div>

  );

}

export default CalculateScore;

1. Create a Folder named Stylesheets and add a file named “mystyle.css” in order to add some styles to the components

/\* src/Stylesheets/mystyle.css \*/

.score-container {

  max-width: 400px;

  margin: auto;

  padding: 20px;

  text-align: center;

  border: 2px solid #ccc;

  border-radius: 8px;

  background-color: #f5f5f5;

}

input {

  display: block;

  width: 90%;

  padding: 8px;

  margin: 10px auto;

  border: 1px solid #999;

  border-radius: 4px;

}

button {

  padding: 10px 20px;

  background-color: #2d89ef;

  color: white;

  border: none;

  border-radius: 4px;

  cursor: pointer;

}

button:hover {

  background-color: #005cbf;

}

.result {

  margin-top: 20px;

  padding: 10px;

  background-color: #d4edda;

  border: 1px solid #c3e6cb;

  border-radius: 4px;

}

1. Edit the App.js to invoke the CalculateScore functional component as follows:

import React from 'react';

import './App.css';

import CalculateScore from './Components/CalculateScore';

function App() {

  return (

    <div className="App">

      <CalculateScore />

    </div>

  );

}

export default App;

1. 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:



