**React CaseStudy2 – StudentApp**

Let’s build a very simple React example where we have a student array of objects (with id, name, mark1, mark2)

**Array objects**

{ id: 1, name: "Alice", mark1: 85, mark2: 90 },

{ id: 2, name: "Bob", mark1: 70, mark2: 65 },

{ id: 3, name: "Charlie", mark1: 50, mark2: 55 },

{ id: 4, name: "David", mark1: 95, mark2: 92 }

Find the total marks and according to that put the grade

and display them in a table with:

* Student ID
* Student Name
* Mark 1
* Mark 2
* Total Score
* Grade

Add some external CSS for the design

**App.js**

import React from 'react';

import StudentTable from './components/StudentTable';

function App() {

  return (

    <div className="App">

      <StudentTable />

    </div>

  );

}

export default App;

**StudentTable.js**

import React from 'react';

import './StudentTable.css';

const students = [

  { id: 1, name: "Alice", mark1: 85, mark2: 90 },

  { id: 2, name: "Bob", mark1: 70, mark2: 65 },

  { id: 3, name: "Charlie", mark1: 50, mark2: 55 },

  { id: 4, name: "David", mark1: 95, mark2: 92 }

];

const getGrade = (total) => {

  if (total >= 180) return 'A';

  if (total >= 150) return 'B';

  if (total >= 120) return 'C';

  if (total >= 100) return 'D';

  return 'F';

};

const StudentTable = () => {

  return (

    <div className="container">

      <h2>Student Marks Table</h2>

      <table className="student-table">

        <thead>

          <tr>

            <th>Student ID</th>

            <th>Student Name</th>

            <th>Mark 1</th>

            <th>Mark 2</th>

            <th>Total Score</th>

            <th>Grade</th>

          </tr>

        </thead>

        <tbody>

          {students.map(student => {

            const total = student.mark1 + student.mark2;

            const grade = getGrade(total);

            return (

              <tr key={student.id}>

                <td>{student.id}</td>

                <td>{student.name}</td>

                <td>{student.mark1}</td>

                <td>{student.mark2}</td>

                <td>{total}</td>

                <td>{grade}</td>

              </tr>

            );

          })}

        </tbody>

      </table>

    </div>

  );

};

export default StudentTable;

**StudentTable.css**

.container {

  padding: 30px;

  font-family: Arial, sans-serif;

  text-align: center;

}

.student-table {

  width: 100%;

  border-collapse: collapse;

  margin-top: 20px;

}

.student-table th, .student-table td {

  padding: 10px;

  border: 1px solid #ddd;

}

.student-table th {

  background-color: #4CAF50;

  color: white;

}

.student-table tr:nth-child(even) {

  background-color: #f2f2f2;

}

.student-table tr:hover {

  background-color: #ddd;

}