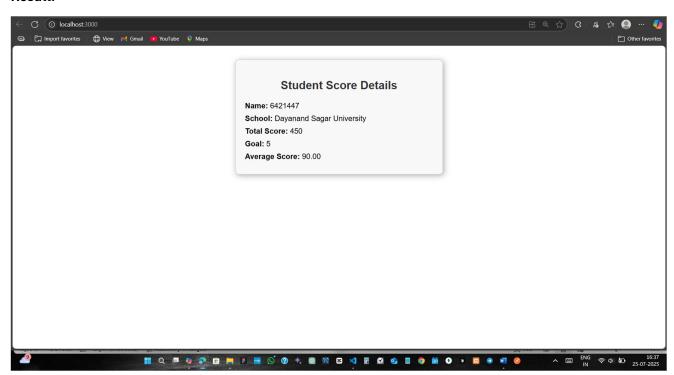
Objectives

- Explain React components
- Identify the differences between components and JavaScript functions
- Identify the types of components
- Explain class component
- Explain function component
- Define component constructor
- Define render() function

In this hands-on lab, you will learn how to:

- Create a function component
- Apply style to components
- Render a component

Result:



Prerequisites

The following is required to complete this hands-on lab:

- Node.js
- NPM
- Visual Studio Code

Notes

Estimated time to complete this lab: 30 minutes.

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:

C:>npx create-react-app scorecalculatorapp

- 2. Create a new folder under Src folder with the name "Components". Add a new file named "CalculateScore.js"
- 3. Type the following code in CalculateScore.js

```
import '../Stylesheets/mystyle.css'

const percentToDecimal= (decimal) => {
    return (decimal.toFixed(2) + '%')
}

const calcScore = (total, goal) => {
    return percentToDecimal(total/goal)
}
```

```
export const CalculateScore = ({Name,School, total, goal}) => (
    <div className="formatstyle">
      <h1><font color="Brown">Student Details:</font></h1>
      <div className="Name">
       <b> <span> Name: </span> </b>
        <span>{Name}</span>
      <div className="School">
       <b> <span> School: </span> </b>
        <span>{School}</span>
      <div className="Total">
        <b><span>Total:</span> </b>
        <span>{total}</span>
        <span>Marks</span>
      <div className="Score">
        <b>Score:</b>
           {calcScore(
             total.
             goal
         </span>
```

4. Create a Folder named Stylesheets and add a file named "mystyle.css" in order to add some styles to the components:

```
.Name
{
    font-weight:300;
    color:blue;
}
.School
{
    color:crimson;
}
.Total
{
    color:darkmagenta;
}
.formatstyle
{
    text-align:center;
    font-size:large;
}
.Score
{
    color:forestgreen;
}
```

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

6. In command Prompt, navigate into scorecalculatorapp and execute the code by typing the following command:

C:\scorecalculatorapp>npm start

7. Open browser and type "localhost:3000" in the address bar:

