

## WEEK 6 – REACT HANDS ON:

**1. Create a new React Application with the name “myfirstreact”, Run the application to print “welcome to the first session of React” as heading of that page.**

1. To create a new React app, Install Nodejs and Npm from the following link:

<https://nodejs.org/en/download/>

2. Install Create-react-app by running the following command in the command prompt:

```
C:>npm install -g create-react-app
```

3. To create a React Application with the name of “myfirstreact”, type the following command:

```
C:>npx create-react-app myfirstreact
```

4. Once the App is created, navigate into the folder of myfirstreact by typing the following command:

```
C:>cd myfirstreact
```

5. Open the folder of myfirstreact in Visual Studio Code
6. Open the App.js file in Src Folder of myfirstreact
7. Remove the current content of “App.js”
8. Replace it with the following:

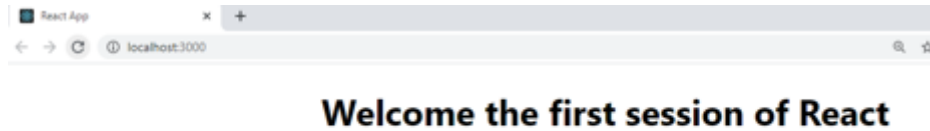
Program:

```
Function App()
{
  return(
    <h1> Welcome the first session of React </h1>
  );
}
```

9. Run the following command to execute the React application:

```
C:\myfirstreact>npm start
```

10. Open a new browser window and type "localhost:3000" in the address bar



---

**2. Create a react app for Student Management Portal named StudentApp and create a component named Home which will display the Message "Welcome to the Home page of Student Management Portal". Create another component named About and display the Message "Welcome to the About page of the Student Management Portal". Create a third component named Contact and display the Message "Welcome to the Contact page of the Student Management Portal". Call all the three components.**

1. Create a React project named "StudentApp" type the following command in terminal of Visual studio:

```
C:>npx create-react-app StudentApp
```

2. Create a new folder under Src folder with the name "Components". Add a new file named "Home.js"

3. Type the following code in Home.js

```
import React,{Component} from 'react';

import class Home extends Component

{

render(){

<div>

<h> Welcome to the Home Page of Student Management Portal</h3>

</div>
```

```
}  
}
```

4. Under Src folder add another file named "About.js"
5. Repeat the same steps for Creating "About" and "Contact" component by adding a new file as "About.js", "Contact.js" under "Src" folder and edit the code as mentioned for "Home" Component.
6. Edit the App.js to invoke the Home, About and Contact component as follows:

```
import logo from './logo.svg';  
import './App.css';  
import {Home} from './Components/Home';  
import {About} from './Components/About';  
import {Contact} from './Components/Contact';  
function App()  
{  
  return(  
    <div className="container">  
      <Home/>  
      <About/>  
      <Contact/>  
    </div>  
  );  
}  
export default App;
```

7. In command Prompt, navigate into StudentApp and execute the code by typing the following command:

```
C:\studentapp>npm start
```

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



**3. 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
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:

```
import { CalculateScore } from '../src/components/CalculateScore';

function App()
{
  return (
    <div>
      <CalculateScore
        Name={"Steeve"}
        School={"DNV Public School"}
        total={284}
        goal={3}
      />
    </div>
  );
}

export default App;
```

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:



5. My Academy team at Cognizant want to create a dashboard containing the details of ongoing and completed cohorts. A react application is created which displays the detail of the cohorts using react component. You are assigned the task of styling these react components.

Download and build the attached react application.



cohorttracker.zip

1. Unzip the react application in a folder
2. Open command prompt and switch to the react application folder
3. Restore the node packages using the following commands

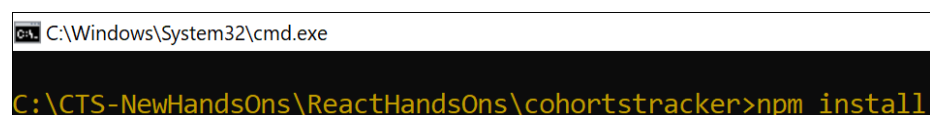


Figure 1: Restore packages

4. Open the application using VS Code
5. Create a new CSS Module in a file called "CohortDetails.module.css"
6. Define a css class with the name as "box" with following properties

*Width = 300px;*

*Display = inline block;*

*Overall 10px margin*

*Top and bottom padding as 10px*

*Left and right padding as 20px*

*1 px border in black color*

*A border radius of 10px*

7. Define a css style for html <dt> element using tag selector. Set the font weight to 500.
8. Open the cohort details component and import the CSS Module
9. Apply the box class to the container div
10. Define the style for <h3> element to use “green” color font when cohort status is “ongoing” and “blue” color in all other scenarios.
11. Final result should look similar to the below image

### Cohorts Details

**INTADMDF10 -.NET FSD**  
Started On  
22-Feb-2022  
Current Status  
Scheduled  
Coach  
Aathma  
Trainer  
Jojo Jose

**ADM21JF014 -Java FSD**  
Started On  
10-Sep-2021  
Current Status  
Ongoing  
Coach  
Apoorv  
Trainer  
Elisa Smith

**CDBJF21025 -Java FSD**  
Started On  
24-Dec-2021  
Current Status  
Ongoing  
Coach  
Aathma  
Trainer  
John Doe