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## **REACT**

Saturday, February 15, 2025 3:03 PM

	Header Component
Menu Component	Main Page
Footer Component	

React: Single page application and everything you create it's a component in React Script Language -- Type Script, JavaScript (react JS)

Npm - node package manager -- installation (all libraries)

Npx- Node package execute -- dynamically collect and execute

Method:

createElement()

Render()

How we can make the normal html tags as a react tags How to create a react app

- 1. Using CDN Links
- 2. Through command interface CLI

**React Element** 

Js

Const message = "Hello All"

Jsx

Const message =<h1> Hello All, {attribute}, </h1>

Npm init

Create a new react app where you have three components Header, Footer and middle

In the header appply the css and display the message as header component or if possible create a menu

In the middle page add some images

In the footer apply the css and display the message as Footer component

Components:

There are two ways to create a component

```
    Functional Component
```

```
Function function_name()
{
    return();    // html
```

Export default <function\_name>

1. Class Component Import react,{component} from 'react'

Class classname extends Component {

Render()
{

return(); //html }

#### Router:

}

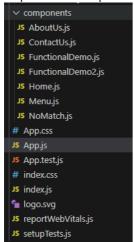
To move from one page to another page

For implementing first install the library

## Step 1: Npm install react-router-dom

Step2 : import {BrowserRouter} from 'react-router-dom';
Step3 : replace <React.StrictMode> with <BrowserRouter>

# Step 4: create components:



### Step 5: Routes

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```
);
}
```

Menu.Js (For hyperlinks)

Calling props in functional component

```
Calling props in class component
                                                                      JS AboutUs.js
 UNTITLED (WORKSPACE)
                       回の哲却
                                        ReactPrograms > myapp > src > classcomponents > J5 ClassDemo1.js > ← ClassDemo1 > ← render

    ReactPrograms

                                                import React from 'react';

√ myapp

   > node_modules
   > public
   classcomponents
                                                    render()
    JS ClassDemo1.js
    components
                                                         return <h1> You have visited : {this.props.sitevisited}</h1>;
                                          10
     JS AboutUs.is
     JS ContactUs.js
     JS FunctionalDemo.js
     JS FunctionalDemo2.js
     JS Home.js
     JS Menu.js
     JS NoMatch.js
    # App.css
```

```
eactPrograms
                                    import Fdemo2 from './FunctionalDemo2';
nyapp
node_modules
                                    import ClassComponent from '../classcomponents/ClassDemo1'
                                    function Demo(props)
public
classcomponents
JS ClassDemo1.js
components
JS AboutUs.js
JS ContactUs.js
                                            <h1>Heading of functional Component</h1>
JS FunctionalDemo2.js
                                           JS Home.js
                                           <h2> Functional Demo</h2>
JS Menu.is
JS NoMatch.js
App.css
App.js
 App.test.js
 index.css
```

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Activity: (add logo or image)

```
HEADER
                       About us
                                            Contact Us
         MAIN SECTION
  FOOTER
State -- when there is a change
```

```
Import r from 'react'
Class mycomponent extends r.component
{
Constructor(props)
Super(props)
This.state ={
Counter =0;
}
                             Counter 1
                             Counter 2
```

```
import r from 'react'
class StateComponent extends r.Component
constructor(props)
super(props);
this.state =
this.handleClick = this.handleClick.bind(this); // we are binding the even handler with the current class
handleClick()
    this.setState({counter :this.state.counter+1}); // To update
console.log("Counter Value"+ this.state.counter);
render()
    let {counter} =this.state;
  return(
    <div>
        <button onClick={this.handleClick}> Press to continue
        <div> Counter variable has incremented {counter}</div>
    </div>
```

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```
Input type text == even for username
For password

Const user = data.find(user => 'Admin' === username && 'pass123' === password);
If(user)
{
Window.location.href = '/admin';
}
Else
Alert ("Invalid credentials"
)
```

