

# React JS

Component, States, Props

## Module:1

### 1. HTML-CSS Login Registration page

Ans. <https://github.com/Parth12011999/CSS/tree/master/LoginPage1>

## Module:2(JavaScript Essentials)

### 1. Calculate subtotal price of quantity in JavaScript?

Ans. <https://github.com/Parth12011999/JAVASCRIPT/tree/master/Subtotal>

### 2. What is JavaScript Output method?

Ans. JavaScript output method refers to the way of display the written code. Four types of output methods are used to display the output.

- InnerHTML:- it is used to access an element and defines HTML content
- document.write():-It is used mainly for testing purpose because of his rewriting the whole document nature.
- Window.alert():-it displays the content using alert box
- Console.log():- it access the console of browser and used for debugging

### 3. How to used JavaScript Output method?

Ans. JavaScript has different ways to display Output some them are:-

- By using `innerHTML` we can write into HTML element
- By using `document.write` we can write into document
- By using `window.alert` we can access alert as an output
- By using `console.log` we can access console as an output

#### 4. How to use JavaScript Events to do all examples?

**Ans.** We have to store that particular element where we use to Events of JavaScript.

Now we can use method called `addEventListener` on it and can specify which events we want use on it

Syntax:- `Variable.addEventListener("event", function);`

```
<button type="submit" id="input">>
<script>
  const input = document.getElementById("input");
  input.addEventListener("Click", ()=>{
    console.log("Pressed"); //Pressed
  })
</script>
```

## Module:3(JavaScript Essentials)

### 1. What is React Js?

**Ans.** React Js is a JavaScript Library used to building composable user interfaces that helps in interacting with the other components in various spectra of user requirements also used in creating reusable UI components, and also provides virtual DOM.

### 2. What is NPM in React Js?

**Ans.** Node Package Manager (NPM) is an online directory that contains many different types of open-source packages. With the help of NPM we can actually

install this packages and it will also maintain all the dependencies related to that particular package.

### **3. What is Role of Node Js in react Js?**

**Ans.** NodeJs provides NPM to install open-source packages and also people prefer to use JSX format while writing React Js. So Node Js provides efficient environment for creating React by providing useful tools.

### **4. What is CLI command In React Js?**

**Ans.** Command-line interfaces provide an environment that helps us to install or configure software or packages. In node we can use Node Package Manager(NPM) to installing and creating the project.

### **5. What is Components in React Js?**

**Ans.** Components are basically block of code that can be reused and are independent in nature. They are same as JavaScript function but work in independent nature and return HTML. There are two types of component Function Component and Class Component. Now days, function components are recommended more.

### **6. What is Header and Content Components in React Js?**

**Ans.** In webpage layout we have Header and Content section. For creating that we are writing bunch of code together in HTML. But in React Js we can create Particular Components for the respected section of layout, for example we can copy the all the HTML code of header section and put it in a React Js component nature. And by doing tht we can easily access that header component in every page of the website. So Header Component represent header section of a layout and Content Component represent content section of layout

### **7. How to install React Js on Windows, Linux Operating System? How to install NPM and How to check version of NPM?**

**Ans.** For Windows & Linux:-

- Open Terminal(Command Propmt or Powershell)

- Go into your desired location where you want to start react app by using 'cd' command in prompt
- And use the command 'npm create-react-app projectname'
- 

#### **8. How to check version of React Js?**

**Ans.** By opening package.json and look into dependencies section.

#### **9. How to change in components of React Js?**

**Ans.** By using Props we can actually change in components of React Js.

We can define props as an arguments in child component.

Now we can change that child component in another component by using there arguments as a property while defining child component.

#### **10.How to Create a List View in React Js?**

**Ans.** <https://github.com/Parth12011999/list-view.git>

#### **11.Create Increment decrement state change by button click?**

**Ans.**

[https://github.com/Parth12011999/first/blob/2d8b2df132705907dd4095e4398180820ad67f7e/src/State/Func\\_state.jsx](https://github.com/Parth12011999/first/blob/2d8b2df132705907dd4095e4398180820ad67f7e/src/State/Func_state.jsx)

## **Module:4(List and Hooks)**

### **1. Explain Life cycle in Class Component and functional component with Hooks**

**Ans.** Every Component in React are created (Mounted on the DOM), change by updating and then removed (Unmounted on DOM). This is mentioned as a component lifecycle.

There are three methods in React that defines three phases of components life:-

**1. Mounting:-** In this phase our react component mounts on the DOM. And there are two methods to do it

- 1. `componentWillMount()`:-** This method is called before the component mounts on DOM or we can say before render method is called.
- 2. `componentDidMount()`:-** This method is called after the component mounted on DOM or we can say after render method is called.

**2. Updating:-** In this phase our component is already created and mounted on DOM. This phase executes when component's state or props are changes or re-rendering take place. And this will execute by User when they will interact with the component (pressing button ,inputs). There are three methods to do it

- 1. `componentShouldUpdate()`:-** This method is called when you want to re-render the component on some condition. By default, it returns true.
- 2. `componentWillUpdate()`:-** This method is called before re-rendering has done and when you want to do some functionalities just before re-rendering take place.
- 3. `componentDidUpdate()`:-** This method is called after the re-rendering has done or we can say after component mounted on DOM.

**3. Unmounting:-** Last phase of component lifecycle. In this phase our component is removed or unmounted from DOM. Only one method is there

- 1. `componentWillUnmount()`:-** This method is called before the component Unmounting on DOM. Denoting that it will Unmounted soon or we can say end of the component life cycle.

## Example:- Function Component

```
import React,{useEffect} from "react";
```

### Mounting:-

```
useEffect(()=>{  
  console.log("DidMount")  
},[])
```

### Unmounting:-

```
useEffect(()=>{  
  console.log("DidMount")  
  return () => console.log("WillUnmount")  
},[])
```

### Updating:-

```
useEffect(()=>{  
  return () => console.log("DidUpdate")  
},[data.number])
```

## Example:- Class Component

### Mounting:-

```
componentDidMount(){  
  console.log("DidMount")  
}
```

### Unmounting:-

```
componentWillUnmount(){  
  console.log("WillUnmount")  
}
```

### Updating:-

```
componentDidUpdate(){  
  console.log("DidUpdate")  
}
```

## **Module:5(Styling & Advance React)**

- 1. Create Shopping site home page with Styled- component**

**Ans. <https://github.com/Parth12011999/shopping-page.git>**