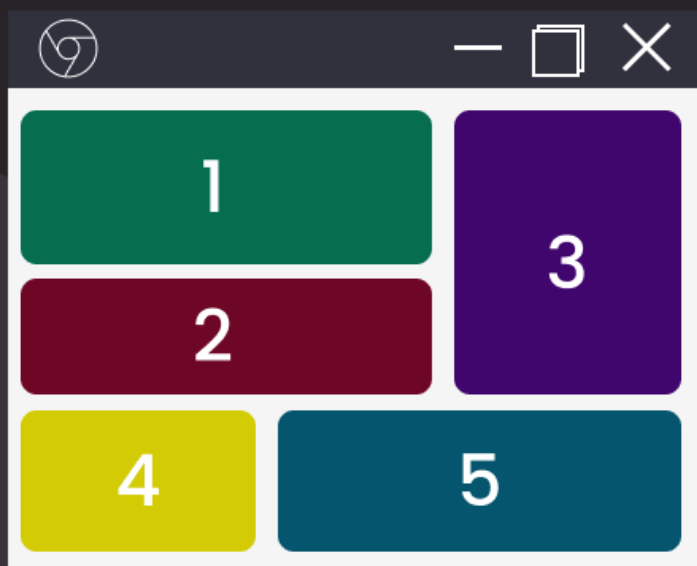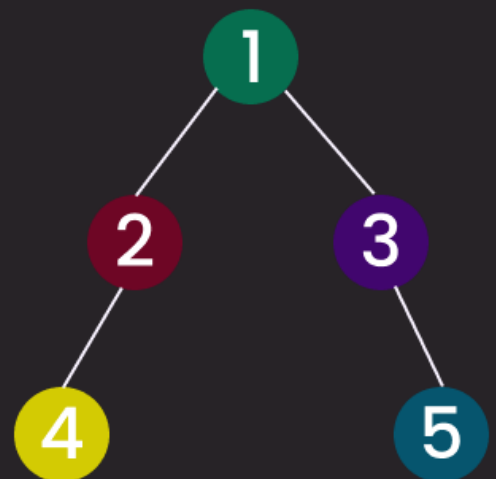# React
Components

Hey Everyone 👋

In this Post, we will understand about what are React Components, how do we create Components and how do we render Components.

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React Components

- A Component is considered as the core building blocks of a React application.

- They serve the same purpose as JavaScript functions, but work in isolation and return HTML.

- Each component exists in the same space, but they work independently from one another and merge all in a parent component.

- Every React component have their own structure, methods as well as APIs.

- They can be reusable as per your need.

- For better understanding, consider the entire UI as a tree
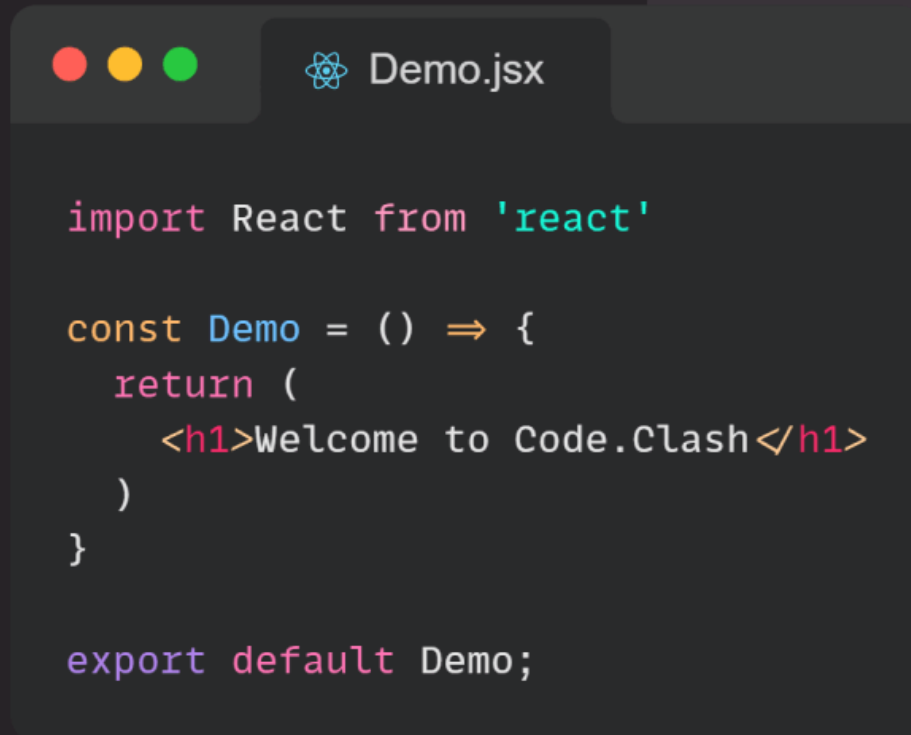
UI Tree

Types Of Component

- In ReactJS, we have mainly two types of components.

- They are :

    i. Functional Components

    ii. Class Components

Functional Components

- They are simply JavaScript functions that may or may not receive data as parameters.

- We can create a functional component to React by writing a JavaScript function.

- In the functional Components, the return value is the JSX code to render to the DOM tree.
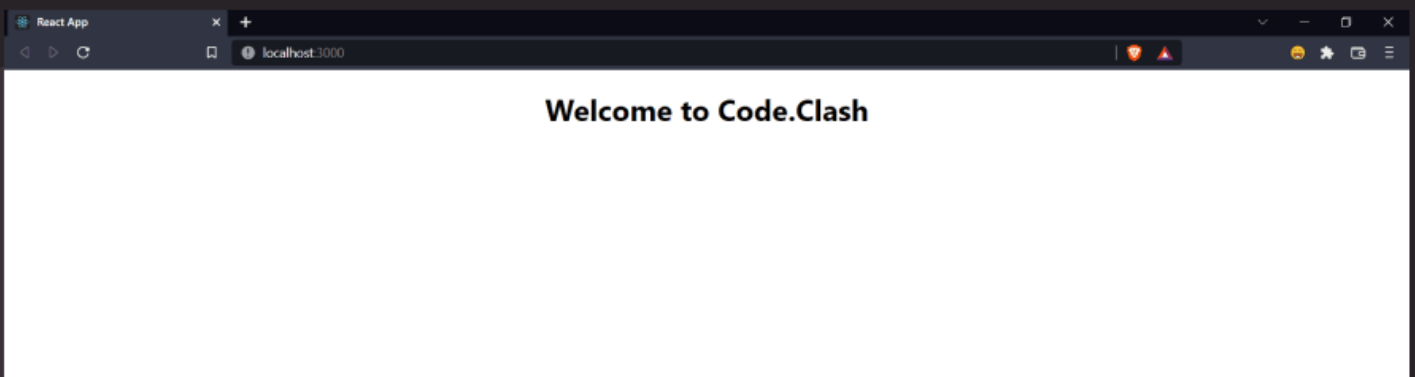
- ## Example :

```jsx
import React from 'react'

const Demo = () => {
  return (
    <h1>Welcome to Code.Clash</h1>
  )
}

export default Demo;
```

Demo.jsx

localhost:3000

Welcome to Code.Clash

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Class Components

- Class components are more complex than functional components.

- It requires you to extend from React.

- You can create a class by defining a class that extends Component and has a render function.

```jsx
                            Demo.jsx

import React, { Component } from 'react'

export class Demo extends Component {
  render() {
    return (
      <div>Welcome to Code.Clash</div>
    )
  }
}

export default Demo;
```

NEXT ➡️

- The class component is also known as a stateful component because they can hold or manage local state.

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

class Demo extends Component {

  constructor(props) {
    super(props);

    this.state = {
      name: 'Imtiyaz',
      ig: 'Code.Clash',
    };
  }

  render() {
    return (
      <>
        <h1>Hello, My Name is {this.state.name}</h1>
        <h2>Welcome To {this.state.ig}</h2>
      </>
    );
  }
}

export default Demo;
```
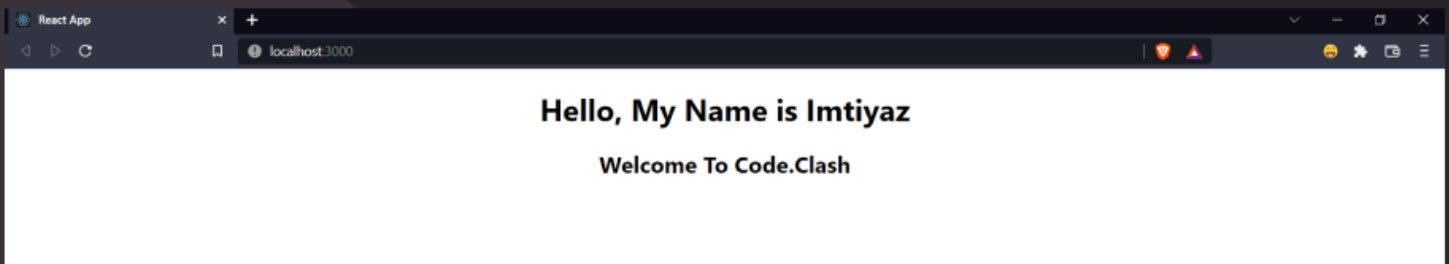
Demo.jsx

React App — localhost:3000

Hello, My Name is Imtiyaz

Welcome To Code.Clash

THANKS FOR YOUR ATTENTION

Code.Clash   Imtiyaz Nandasaniya

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