**JS Framework**

React JS is third party UI Component library.

Angular Framework :

Vue JS framework :

Framework vs library

SPA :Single page application.

MPA

DOM

Angular internally follow MVC : Model view controller.

React JS only focus only view technologies rather than model and controller.

React JS is a component base library

UI Component: Component is use to control the view or part of the view page.

Using react we can create component which help to create user defined tags. Each component return JSX (dom elements).

<p>Hello</p>

In react we can create the component using 3 ways

1. Function style ES5
2. Class style ES6
3. Arrow style ES6

Hooks

**State and props**

Both are type of variable in react component.

State is use to describe the component behaviour. Using **useState()** hook we can create state variable in function component. with setVariableName we can change the state variable. state is mutable variable.

let [name,setName]=useState(“Akash”);

setName(“Akash Kale”);

Props :is a type of variable which help to pass the value from one component to another component with their relationship. Props can’t be change. props is known as immutable property.

<div>

<h1></h1>

<p></p>

</div>

<Parent> user 🡪 admin (state)

<Child1></Child1>

<Child2></Child2>

</Parent>

function Parent() {

let [user,setUser]=useState(“Admin”); // local to Parent component

return(

<div>

<p>Name is {user}</p>

<Child1 name={user}></Child1>

<Child2></Child2>

</div>

)

}

1. Parent to child 🡪 props
2. Child to parent 🡪 props with callback function
3. Child1 to child2 🡪 child1 pass the value to parent using props with callback and parent pass the value to child2 using props.

React Context API:

Redux core:

Redux toolkit:

**Component communication**