Day 1

11-04-2022

React JS and React Native

Angular is framework. Angular is part of google. Angular is heavy. Angular follow standard. It follow design pattern ie MVC.

Angular Framework is component base architecture.

Angular we use one and two way data binding.

Base upon the typescript.

React JS a library. It is part of Facebook. Library is light weighted. In MVC react is View.

React JS provide virtual dom.

In React JS we use one way data binding.

In React JS we use JSX (JavaScript and XML).

React : it module provide set of library to do the operation on virtual.

ReactDOM : this module provide the bridge between react module and actual dom.

React JS a open source light weighted library which help to create the UI Component.

Component is control the view or part of view.

Angular and React is use to create SPA application.

In React JS we can create the component

1. Using function style : ES5 style
2. Using arrow style : ES6 style
3. Using class style : ES6 style

React JS or React Native we can do using JS or TS.

Html code

<div id="obj1">

</div>

Css code

div {

color: "#abc123"

}

JS code

//ReactDOM.render(<h1>Welcome to Simple React JSProgram</h1>,document.getElementById("obj1"))

function MyComponent() {

// coding......

return <div>

<Header></Header>

Welcome to React JS with function style

</div>

}

function Header() {

// logic...

return <h1>This is header component </h1>

}

ReactDOM.render(<MyComponent/>,document.getElementById("obj1"))

**Using node JS creating react JS Application**

npm install –g create-react-app

create-react-app welcome-app

React component contains two types of variable

1. State : state variable use to describe the behaviour of the component. State variable local that component. State variable known as a mutable property. You can change state variable using setState functions.

Syntax of state variable declaration

this.state={key:value,key:value};

old version of react we can create state variable only class component. Because of this reason class component is known as state full component.

From new version of react we can declare state variable function style component using hook ie useState.

1. Props : props are use to pass value from one component to another component ie parent to child component. Props can’t change. Props is known as immutable properties.

Day 2

12-04-2022

We can declare state variable inside a class component.

State variable we have to declare inside a constructor using syntax as

this.state ={key:value,key:value}

We can change the state variable using setState function.

New project using command as

**create-react-app login-app**

Day 3

13-04-2022

Component communication

Every component contains set variable. Set variable are local to that component. So we can use those variable within that component(inside the JSX). If we want to share the state variable from one component to another component.

Relationship between two component.

Parent – child relationship : using props we have pass the value form one component like @Input decorator in Angular Framework.

Child parent relationship : using props with callback function we can pass the value from child to parent like @Output decorator with EventEmitter or @ViewChild decorator.

Sibling relationship : child1 pass the value to parent using props with callback and parent pass the value to child2 using props.

Creating React JS application using typescript

npx create-react-app react-with-typescript –-template typescript