Day 1 : 5 Mar 2024

Adv React JS

Class component is known as stateful component : we can use state and props.

Functional component generally we were using state less component. Functional component take props as parameter and return JSX.

After hook

Using functional component we can use state and props in functional components.

Whenever we create any component using class style or functional style. We can write state variable. Those variable are local to that components.

If we want share the variable from one component to another component.

We need to understand relationship between two components.

1. Parent to child : using props we can share the data between parent to child
2. Child to parent : we can take the help of props and function as parameter to pass the value.
3. Sibling :
   1. sessionStorage or localStorage
   2. react with RxJS.
   3. From child pass the value to parent and from parent pass the value to child

A

B C

D E F G

X

Context API : part of react JS

Redux : it provide global state variable.

We can use axios or fetch function to call rest api develop in any language

Json-server we can create dummy rest api.

Redux toolkit new version to achieve react with redux.

Redux toolkit and Next JS

Context api

Redux

Redux toolkit

Redux with calling rest api

Using Next JS

Context api

Add

Add user Display User

Redux

Redux with toolkit

Store : database

State : data

Action : operation

Reducer : table

Redux toolkit with Next JS to create rest api

We develop small application

Login app

Banking app

Next JS create Rest API

Redux with toolkit consume those rest api with fetch or axios

Of

Banking app,

e-commerce

etc

Day 2 : 7 Mar 2024

Redux and Redux toolkit both are third party library which make state variable as global variable. State management tool or containers.

Redux is classic model

To make state variable as global variable.

function reducer(state=0/intialState,action) {

if(action.type==”ADD”) {

return updated state variables.

}

…..

}

Redux toolkit provide createSlice function which contains initialState, reducer functionality and action

const mySlice = createSclice({

name :”reducerName”,

intialState,

reducer: {

add :(state)=> return updated state.

}

})

First create the project

create-react-appp react-with-redux-toolkit

npm install react-redux It give the provider tags which help to wrap for app tag using store.

npm install @reduxjs/toolkit : it create createSlice function

react with redux toolkit to access rest api

create-react-app react-redux-toolkit-with-axios

cd react-redux-toolkit-with-axios

npm install react-redux

npm install @reduxjs/toolkit

npm install axios

Next JS : Next JS is base upon React JS which help to server side rending components.

React JS is known as Client side rendering components.

Frontend Backend

Java

Python

Node Js

Using axios module we consume fake rest api

We can to create our own rest api, we want to data in file, we can do request and response side component then we can use Next JS.