**Day 5:**

React JS with consuming Rest full web Service

In react js we can use

1. **fetch function:** using JavaScript fetch function we can consume rest api develop using any language.

Using fetch function in react js we consume rest api provided by below URL

<https://www.themealdb.com/api/json/v1/1/search.php?s=>

**npx create-react-app react-fetch-app**

cd **react-fetch-app**

**open this project in VS code**

fetch function generally use to consume simple rest api. it doesn’t provide to handle error in proper way. Fetch support native browser API.

1. **axios library :** axios is a third party library which help to consume rest api develop using any language.

**Axios** is internally use fetch concept. Which provide in build features to handle all rest api call. It provide easy ways to handle the error.

**npx create-react-app react-axios-app**

**cd react-axios-app**

**npm install axios** this command is use to download axios library in current project

open the project in VS code

useEffect: useEffect is another hook function which get call automatically whenever component get loaded. It will call again if any changes happened in its dependencies it will call again. This function generally use to do side effect. In class component we are/were using mount, unmount and update life cycle function. In Function component we use useEffect function to mount and unmount.

Syntax

useEffect(callbackFunction,[depedencies]);

1st syntax

useEffect(()=> {

})

2nd syntax

useEffect(()=> {

},[])

3rd

useEffect(()=> {

},[count])

**npx create-react-app react-with-useeffect-app**

**cd react-with-useeffect-app**

open the project in VS code

1. With help of **json-server** node js module we can create duppy rest api. we can consume those rest api using react js. (if we create own rest api we can store, delete, update and retrieve like backend technologies). CRUD Operation (Create, Read, Update and Delete etc).

Create the file with any name with extension must be json

Like

db.json

employees.json

customers.json

**db.json**

{

    "employees":[

        {"id":100,"name":"John","salary":45000},

        {"id":101,"name":"Steven","salary":48000},

        {"id":102,"name":"Raj","salary":42000},

        {"id":103,"name":"Amir","salary":46000}

    ]

}

To run this file we need to install node js external module ie **json-server**

**npm install json-server -g**

or

-g means globally

Once you installed that module

You need to run the command as to make db.json file as duppy server

**json-server db.json**

or

without installed we can run json-server with help of npx command

**npx json-server db.json**

now we will create new react js project. With help of React JS project we do CRUD Operation on db.json file running using json-server command.

**npx create-react-app react-employee-crud-operations**

**cd react-employee-crud-operations**

**npm install axios**

**open the project in VS code**