**React JS**

Invoking or consume Rest API in React JS

1st using **fetch()** function :

It support legacy concept.

Fetch doesn’t provide error handling concept properly.

Fetch function doesn’t provide appropriate http protocol method to handle rest api.

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

cd react-fetch-app

open the project in VS code

**npm start**

2nd using **axios** tools : axios is a third party tool which internally use fetch concept to consume rest api. axios allow to handle all rest api method like get, post, put and delete.

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

cd react-fetch-app

**npm install axios**

open the project in VS code

**npm start**

**useEffect():** This hook it invoke whenever component loaded in DOM

which generally use to do side effect in that particular component.

mounting -🡪 loading component

update -🡪 whenever we do any changes in set function of state variable it re-render

unmounting -🡪 unload the component or remove the component from dom.

Syntax

useEffect(callback,[dependencies])

useEffect(()=> {

do some task whenever component get loaded…

this task perform only once.

})

useEffect(()=> {

do some task whenever component get loaded…

if any changes on state or props variable then useEffect function get called.

},[dependencies(state or props variable)])

**npx create-react-app react-use-effect-hook**

cd **react-use-effect-hook**

**open the project in VS code**

**npm start**

3rd node js provided third party module is **json-server.** This module help us to run json file as duppy rest api. it is like a backend technologies.

**npm install -g json-server**

**json-server --version**

**json-server db.json**

**or**

**npx json-server --version we can use that module without installation**

**npx json-server db.json**

**db.json file**

**{**

**"products":[**

**{"id":100,"pname":"TV","price":45000},**

**{"id":101,"pname":"Computer","price":35000}**

**],**

**"customer":[**

**{"id":1,"cname":"Ravi","age":21},**

**{"id":2,"cname":"Ramesh","age":22},**

**{"id":3,"cname":"Rajesh","age":23}**

**],**

**"employees":[**

**]**

**}**

npx create-react-app react-axios-crud-operation

cd react-axios-crud-operation

**npm install axios**

open the project in VS code

npm start

react project start on **3001**  (frontend technologies)

json-server **3000** port (backend technologies)