\*\*\* Project (Restaurent) \*\*\*

(1)make a project structure (2) routing

(3)Login and Registration (4)API calls

(5)Listing of Restaurents (6)make new restaurant

(7)update restaurant details (8)delete restaurant

(9)search restaurant (10) style and design …..etc

(11)advance (12)google map

(13)redux (14)upload photos

(15)gallery (16)Login with facebook,google

>> Make a folder name of ‘**ReactjsProject’** on desktop location:

Than Open command prompt and run below command aside ‘**ReactjsProject’** folder:

**npx create-react-app** restaurent-app //( restaurent-app is a folder name , it will take apx 10 minute )

>>Direct run below command to install json-server:

**npm install -g json-server**

create ‘**db**’ folder with in ‘**ReactjsProject’** folder

than create **db.json** file with in ‘**db**’ folder and paste below code with in **db.json** file:

    {

  "login":

[

{"name":"anil","password":"abc@123"}

   ],

        "restaurant":

        [

            { "id": 1,"name": "Mcdonald","address": "Delhi","rating": "4.0","email": "mcdonald@gmail.com"},

            { "id": 2,"name": "sagar gaire","address": "Bhopal","rating": "5.0","email": "sagar@gmail.com"}

        ]

    }

To run json server use below command aside ‘**db**’ folder:

**json-server --watch** db.json [db.json is file name]

>> Run below command to install Routing-Package aside **restaurent-app** folder:

**npm install react-router-dom**

<https://reactrouter.com/web/guides/quick-start> // for reference..

>>than click on ‘**extension’** option or (**ctrl+shift+x**) in visual studio code , search reactjs code snippets and install this plugin.

Note: js file me **rcc**  likh kar enter karne se auto code ho jata hai.

>>Run below command to install Bootstrap aside **restaurent-app** folder:

**npm i bootstrap react-bootstrap**

{/\* The following line should be included in your src/index.js or App.js file\*/}

import 'bootstrap/dist/css/bootstrap.min.css';

<https://react-bootstrap.github.io/> //for reference

>>Run below 3 command to use icons aside **restaurent-app** folder:

npm i --save @fortawesome/fontawesome-svg-core

npm i --save @fortawesome/free-solid-svg-icons

npm i --save @fortawesome/react-fontawesome

than, jis component me icons use karna hai us component me below files import karte hai:

import { FontAwesomeIcon } from '@fortawesome/react-fontawesome';

import { faCoffee } from '@fortawesome/free-solid-svg-icons';

<https://github.com/FortAwesome/react-fontawesome> //Reference

<https://fontawesome.com/icons?d=gallery> // for getting icons

---------------------------------------------------------------------**Start Project** -------------------------------------------------------------------------

>> create a folder name of ‘**component**’ with in **src** folder, than create 6 components**[Home.js, RestaurantCreate.js, RestaurantDetails.js, RestaurantSeacth.js, RestaurantsList.js, RestaurantUpdate.js, Login.js, Logout.js and Protected.js]** with in **component** folder,

And will also edit in **App.js** file,App.cs

Open **Home.js** file and paste below code:

import React, { Component } from 'react';

class Home extends Component {

    render() {

        return (

            <div>

                <h1>Home</h1>

            </div>

        );

    }

}

export default Home;

open **RestaurantCreate.js** file and paste below code:

import React, { Component } from 'react';

class RestaurantCreate extends Component {

    constructor()

    {

        super();

        this.state={

            name:null,email:null,rating:null,address:null

        }

    }

    create()

    {

       // console.warn(this.state)

       fetch("http://localhost:3000/restaurant",{

           method:"Post",

           headers:{

                'Content-Type':'application/json'

           },

           body:JSON.stringify(this.state)

       }).then((result)=>{

           result.json().then((resp)=>{

               console.warn(resp)

           })

       })

    }

    render() {

        return (

            <div>

                <h1>Restaurant Create</h1>

                <div>

                    {/\* To insert data, field name of this file(name,email,rating,address) and column name of

                    db.json file

                    must be same \*/}

                    <input onChange={(event)=>{this.setState({name:event.target.value})}}

                    placeholder="Restaurant Name" /><br/><br/>

                     <input onChange={(event)=>{this.setState({email:event.target.value})}}

                    placeholder="Restaurant Email" /><br/><br/>

                     <input onChange={(event)=>{this.setState({rating:event.target.value})}}

                    placeholder="Restaurant Rating" /><br/><br/>

                     <input onChange={(event)=>{this.setState({address:event.target.value})}}

                    placeholder="Restaurant Addrress" /><br/><br/>

                    <button onClick={()=>{this.create()}}>Add Restaurant</button>

                </div>

            </div>

        );

    }

}

export default RestaurantCreate;

open **RestaurantDetails.js** file and paste below code:

import React, { Component } from 'react';

class RestaurantDetails extends Component {

    render() {

        return (

            <div>

                <h1>Restaurant Details</h1>

            </div>

        );

    }

}

export default RestaurantDetails;

open **RestaurantSeacth.js** file and paste below code:

import React, { Component } from 'react';

class RestaurantSeacth extends Component {

    constructor()

    {

        super()

        this.state={

            searchData:null,

            noData:false

        }

    }

    search(key)

    {

        fetch("http://localhost:3000/restaurant/"+key).then((data)=>{

            data.json().then((resp)=>{

                //console.warn("resp",resp)

                if(resp.length>0)

                {

                    this.setState({searchData:resp,noData:false})

                }

                else

                {

                    this.setState({noData:true,searchData:null})

                }

            })

        })

    }

    render() {

        return (

            <div>

                <h1>Restaurant Seacth</h1>

                <input type="text" onChange={(event)=>this.search(event.target.value)} />

                <div>

                    {

                        this.state.searchData ?

                        <div>

                            {

                                this.state.searchData.map((item)=>

                            <div>{item.name}</div>

                                )

                            }

                        </div>

                        :

                        ""

                    }

                    {

                        this.state.noData ? <h2>No record found</h2> : null

                    }

                </div>

            </div>

        );

    }

}

export default RestaurantSeacth;

open **RestaurantsList.js** file and paste below code:

import React, { Component } from 'react';

import {Table} from 'react-bootstrap';

import {BrowserRouter as Router,Route,Link,Switch} from 'react-router-dom';

import { FontAwesomeIcon } from '@fortawesome/react-fontawesome';

import { faCoffee,faEdit,faTrash } from '@fortawesome/free-solid-svg-icons';

class RestaurantsList extends Component

{

    constructor()

    {

        super();

        this.state = {

            list: null,

        }

    }

    componentDidMount()

    {

        this.getData()

    }

    getData()

    {

        fetch("http://localhost:3000/restaurant").then((response) => {

            response.json().then((result) => {

               // console.warn(result)

                this.setState({list:result})

            })

        })

    }

    delete(id)

    {

        fetch("http://localhost:3000/restaurant/"+id,{

            method:"DELETE",

            headers:{

                 'Content-Type':'application/json'

            },

            body:JSON.stringify(this.state)

        }).then((result)=>{

            result.json().then((resp)=>{

               alert("deleted")

               this.getData()

            })

        })

    }

    render()

    {

        console.warn(this.state)

        return (

            <div>

                <h1>RestaurantsList</h1>

                {

                    this.state.list?

                    <div className="top-div">

                        <Table striped bordered hover>

                        <thead>

                            <tr>

                                <th>#</th>

                                <th>Name</th>

                                <th>Rating</th>

                                <th>Location</th>

                                <th>Action</th>

                            </tr>

                        </thead>

                        <tbody>

                        {

                            this.state.list.map((item,i)=>

                            // <div>

                            //    <span>{item.name}</span>,<span>{item.email}</span>

                            // </div>

                            <tr>

                            <td>{item.id}</td>

                            <td>{item.name}</td>

                            <td>{item.rating}</td>

                            <td>{item.address}</td>

                            <td>

                                <Link to={"/update/"+item.id}><FontAwesomeIcon icon={faEdit} color="blue" /> </Link>

                                <span onClick={()=>this.delete(item.id)}><FontAwesomeIcon icon={faTrash} color="blue" /> </span>

                            </td>

                          </tr>

                            )

                        }

                         </tbody>

                        </Table>

                    </div>

                    :

                    <p>Please wait...</p>

                }

            </div>

        );

    }

}

export default RestaurantsList;

open **RestaurantUpdate.js** file and paste below code:

import React, { Component } from 'react';

class RestaurantUpdate extends Component {

    constructor()

    {

        super();

        this.state={

            name:null,email:null,rating:null,address:null,id:null

        }

    }

    componentDidMount()

    {

        fetch("http://localhost:3000/restaurant/"+this.props.match.params.id).then((response) => {

            response.json().then((result) => {

               // console.warn(result)

                this.setState({

                    name:result.name,

                    email:result.email,

                    id:result.id,

                    rating:result.rating,

                    address:result.address

                })

            })

        })

    }

    update()

    {

       fetch("http://localhost:3000/restaurant/"+this.state.id,{

        method:"PUT",

        headers:{

             'Content-Type':'application/json'

        },

        body:JSON.stringify(this.state)

    }).then((result)=>{

        result.json().then((resp)=>{

           alert("updated")

        })

    })

    }

    render() {

        //console.warn(this.props.match.params.id)

        return (

            <div>

                <h1>Restaurant Update</h1>

                <div>

                    <input onChange={(event)=>{this.setState({name:event.target.value})}}

                    placeholder="Restaurant Name" value={this.state.name}/><br/><br/>

                     <input onChange={(event)=>{this.setState({email:event.target.value})}}

                    placeholder="Restaurant Email" value={this.state.email} /><br/><br/>

                     <input onChange={(event)=>{this.setState({rating:event.target.value})}}

                    placeholder="Restaurant Rating" value={this.state.rating}/><br/><br/>

                     <input onChange={(event)=>{this.setState({address:event.target.value})}}

                    placeholder="Restaurant Addrress" value={this.state.address}/><br/><br/>

                    <button onClick={()=>{this.update()}}>Update Restaurant</button>

                </div>

            </div>

        );

    }

}

export default RestaurantUpdate;

open **src >> App.css** file and add below code:

span{

  color: red;

    padding: 10px;

}

.top-div{

  background-color: pink;

}

open **App.js** file and add below components:

import {BrowserRouter as Router,Route,Link,Switch} from 'react-router-dom';

import Home from './component/Home';

import RestaurantCreate from './component/RestaurantCreate';

import RestaurantDetails from './component/RestaurantDetails';

import RestaurantSeacth from './component/RestaurantSeacth';

import RestaurantsList from './component/RestaurantsList';

import RestaurantUpdate from './component/RestaurantUpdate';

import 'bootstrap/dist/css/bootstrap.min.css';

import {Navbar,Nav} from 'react-bootstrap';

import { FontAwesomeIcon } from '@fortawesome/react-fontawesome';

import { faCoffee,faEdit,faList,faHome,faPlus,faSearch } from '@fortawesome/free-solid-svg-icons';

than paste below code instead App() function:

function App() {

  return (

    <div className="App">

      <Router>

        {/\* navigation bar \*/}

  <Navbar bg="light" expand="lg">

  <Navbar.Brand href="#home">Restaurant</Navbar.Brand>

  <Navbar.Toggle aria-controls="basic-navbar-nav" />

  <Navbar.Collapse id="basic-navbar-nav">

    <Nav className="mr-auto">

      <Nav.Link href="#home"><Link to="/"><FontAwesomeIcon icon={faHome}/>Home</Link></Nav.Link>

      <Nav.Link href="#link"><Link to="/list"><FontAwesomeIcon icon={faList}/>List</Link></Nav.Link>

      <Nav.Link href="#home"><Link to="/create"><FontAwesomeIcon icon={faPlus}/>Create</Link></Nav.Link>

      <Nav.Link href="#link"><Link to="/search"><FontAwesomeIcon icon={faSearch}/>Search</Link></Nav.Link>

    </Nav>

  </Navbar.Collapse>

</Navbar>

        {/\* navigation bar \*/}

         <Route path="/list">

             <RestaurantsList />

         </Route>

         <Route path="/create">

             <RestaurantCreate />

         </Route>

         <Route path="/search">

             <RestaurantSeacth />

         </Route>

         <Route path="/details">

             <RestaurantDetails />

         </Route>

         <Route path="/update/:id" render={props=>(<RestaurantUpdate {...props} />)}></Route>

          {/\* Parameter receive karne k liye id use kiya gaya hai \*/}

         {/\* Home sabse last me rahta hai exact keyword se home component sabhi pages me show nahi hoga \*/}

         <Route exact path="/">

             <Home />

         </Route>

      </Router>

    </div>

  );

}

Than save and check in browser.

Note: json server must be started on firstly.

C:\Users\VEDESHI\Desktop\ReactjsProject\db\ **json-server --watch** db.json