**Rahul wants to learn how to extract data from an API available on the internet and make use of the data. Your task is to create a React App to display the data you are getting from the API and Implement search Box in which whenever user search the list must get filter out.**

**(Any API of your choice)**

class MyComponent extends React.Component {

constructor(props) {

super(props);

this.state = {

error: null,

isLoaded: false,

items: []

};

}

componentDidMount() {

fetch("https://api.example.com/items")

.then(res => res.json())

.then(

(result) => {

this.setState({

isLoaded: true,

items: result.items

});

},

// Note: it's important to handle errors here

// instead of a catch() block so that we don't swallow

// exceptions from actual bugs in components.

(error) => {

this.setState({

isLoaded: true,

error

});

}

)

}

render() {

const { error, isLoaded, items } = this.state;

if (error) {

return <div>Error: {error.message}</div>;

} else if (!isLoaded) {

return <div>Loading...</div>;

} else {

return (

<ul>

{items.map(item => (

<li key={item.id}>

{item.name} {item.price}

</li>

))}

</ul>

);

}

}

}

**react hooks using**

import React, { useState } from 'react'

import ReactDOM from 'react-dom'

import Container from '@material-ui/core/Container'

import {

BrowserRouter as Router,

Switch,

Route,

Link,

Redirect,

useParams,

useHistory,

} from "react-router-dom"

const Home = () => (

<div> <h2>You are inside Home Page</h2> </div>

)

const Note = ({ notes }) => {

const id = useParams().id

const note = notes.find(n => n.id === Number(id))

return (

<div>

<h2>{note.content}</h2>

</div>

)

}

const Notes = ({notes}) => (

<div>

<h2>contact</h2>

<ul>

{notes.map(note =>

<li key={note.id}>

<Link to={/notes/${note.id}}>{note.content}</Link>

</li>

)}

</ul>

</div>

)

const Users = () => (

<div> <h2>You are in Users Page</h2> </div>

)

const Login = (props) => {

const history = useHistory()

const onSubmit = (event) => {

event.preventDefault()

props.onLogin('Shradha')

history.push('/')

}

return (

<div>

<h2>login</h2>

<form onSubmit={onSubmit}>

<div>

username: <input />

</div>

<div>

password: <input type='password' />

</div>

<button type="submit">login</button>

</form>

</div>

)

}

const App = () => {

const [notes, setNotes] = useState([

{

id: 1,

content: '9945876332',

},

{

id: 2,

content: 'near kl university ,vijaywada',

},

{

id: 3,

content: 'studying in kl university ,btech 2 nd year',

}

])

const [user, setUser] = useState(null)

const login = (user) => {

setUser(user)

}

const padding = {

padding: 5

}

return (

<Container>

<div>

<Router>

<div>

<Link style={padding} to="/">home</Link>

<Link style={padding} to="/about">about</Link>

<Link style={padding} to="/contact">contact</Link>

{user

? <em>{user} logged in</em>

: <Link style={padding} to="/login">login</Link>

}

</div>

<Switch>

<Route path="/notes/:id">

<Note notes={notes} />

</Route>

<Route path="/notes">

<Notes notes={notes} />

</Route>

<Route path="/users">

{user ? <Users /> : <Redirect to="/login" />}

</Route>

<Route path="/login">

<Login onLogin={login} />

</Route>

<Route path="/">

<Home />

</Route>

</Switch>

</Router>

</div>

</Container>

)

}

ReactDOM.render(

<App />,

document.getElementById('root')

)

export default App

**Quiz ans**

import React, { useState } from 'react';

function App() {

const questions = [

{

questionText: 'Who is Prime Minister of India?',

answerOptions: [

{ answerText: 'Vijay Rupani', isCorrect: false },

{ answerText: 'Manmohan singh', isCorrect: false },

{ answerText: 'Narendra Modi', isCorrect: true },

{ answerText: 'Deep Patel', isCorrect: false },

],

},

{

questionText: 'Who is CEO of Tata?',

answerOptions: [

{ answerText: 'Jeff Bezos', isCorrect: false },

{ answerText: 'Ratan Tata', isCorrect: true },

{ answerText: 'Mukesh Ambani', isCorrect: false },

{ answerText: 'Gautam Adani', isCorrect: false },

],

},

{

questionText: 'who is richest person in the world?',

answerOptions: [

{ answerText: 'Jeff Bezos', isCorrect: false },

{ answerText: 'Elon Musk', isCorrect: true },

{ answerText: 'Mukesh Ambani', isCorrect: false },

{ answerText: 'Warren Buffett', isCorrect: false },

],

},

{

questionText: 'how many countries in the world?',

answerOptions: [

{ answerText: '120', isCorrect: false },

{ answerText: '183', isCorrect: false },

{ answerText: '170', isCorrect: false },

{ answerText: '195', isCorrect: true },

],

},

]

const [currentQuestion, setCurrentQuestion] = useState(0)

const [showScore, setShowScore] = useState(false)

const [score, setScore] = useState(0)

const handleAnswerButtonClick = (isCorrect) => {

if (isCorrect === true) {

setScore(score + 1);

}

const nextQuetions = currentQuestion + 1;

if (nextQuetions < questions.length) {

setCurrentQuestion(nextQuetions);

}

else {

setShowScore(true)

}

}

return (

<>

<h1 className='header'>Quiz</h1>

<div className="app">

{showScore ? (

<div className='score-section'>

You scored {score} out of {questions.length}

</div>

)

:

(

<>

<div className='question-section'>

<div className='question-count'>

<span>Question {currentQuestion + 1}</span>{questions.length}

</div>

<div className='question-text'>

{questions[currentQuestion].questionText}

</div>

</div>

<div className='answer-section'>

{

questions[currentQuestion].answerOptions.map((answerOptions) => (

<button onClick={() =>

handleAnswerButtonClick(answerOptions.isCorrect)}>{answerOptions.answerText}</butt

on>

))

}

</div>

</>

)}

</div>

</>

);

}

export default App;