**Question: interacting with API fom react**

**Code:**

**App.js:**

import React, { useState } from 'react';

import axios from 'axios';

import $ from 'jquery';

function App() {

const [users, setUsers] = useState([]);

const [method, setMethod] = useState('');

const fetchWithFetch = () => {

fetch('https://jsonplaceholder.typicode.com/users')

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

.then(data => {

setUsers(data);

setMethod('🌐 Fetch API');

})

.catch(err => console.error(err));

};

const fetchWithAxios = () => {

axios.get('https://jsonplaceholder.typicode.com/users')

.then(res => {

setUsers(res.data);

setMethod('⚡ Axios');

})

.catch(err => console.error(err));

};

const fetchWithJQuery = () => {

$.ajax({

url: 'https://jsonplaceholder.typicode.com/users',

method: 'GET',

success: function (data) {

setUsers(data);

setMethod('💻 jQuery AJAX');

},

error: function (err) {

console.error(err);

}

});

};

const fetchWithXHR = () => {

const xhr = new XMLHttpRequest();

xhr.open('GET', 'https://jsonplaceholder.typicode.com/users');

xhr.onload = function () {

if (xhr.status === 200) {

const data = JSON.parse(xhr.responseText);

setUsers(data);

setMethod('📡 XMLHttpRequest');

} else {

console.error('Request failed');

}

};

xhr.send();

};

return (

<div style={styles.container}>

<h1 style={styles.title}>🎨 React API Fetch Demo</h1>

<p style={styles.subtitle}>Choose a method to fetch user data from API:</p>

<div style={styles.buttons}>

<button style={styles.fetchBtn} onClick={fetchWithFetch}>🌐 Fetch</button>

<button style={styles.axiosBtn} onClick={fetchWithAxios}>⚡ Axios</button>

<button style={styles.jqueryBtn} onClick={fetchWithJQuery}>💻 jQuery</button>

<button style={styles.xhrBtn} onClick={fetchWithXHR}>📡 XHR</button>

</div>

<h3 style={styles.methodTitle}>📌 Fetched using: <span style={{ color: '#130f40' }}>{method || 'None'}</span></h3>

<ul style={styles.userList}>

{users.map(user => (

<li key={user.id} style={styles.userItem}>

<strong>{user.name}</strong> <br />

✉️ {user.email}

</li>

))}

</ul>

</div>

);

}

const styles = {

container: {

fontFamily: 'Segoe UI, sans-serif',

padding: '40px',

background: 'linear-gradient(120deg, #f6f9fc, #fceae8)',

minHeight: '100vh',

},

title: {

fontSize: '2.5rem',

color: '#2f3542',

},

subtitle: {

fontSize: '1.2rem',

color: '#57606f',

marginBottom: '30px',

},

buttons: {

display: 'flex',

gap: '15px',

marginBottom: '30px',

},

fetchBtn: {

background: '#70a1ff',

color: '#fff',

padding: '10px 20px',

border: 'none',

borderRadius: '8px',

fontSize: '1rem',

cursor: 'pointer',

},

axiosBtn: {

background: '#ff6b81',

color: '#fff',

padding: '10px 20px',

border: 'none',

borderRadius: '8px',

fontSize: '1rem',

cursor: 'pointer',

},

jqueryBtn: {

background: '#ffa502',

color: '#fff',

padding: '10px 20px',

border: 'none',

borderRadius: '8px',

fontSize: '1rem',

cursor: 'pointer',

},

xhrBtn: {

background: '#2ed573',

color: '#fff',

padding: '10px 20px',

border: 'none',

borderRadius: '8px',

fontSize: '1rem',

cursor: 'pointer',

},

methodTitle: {

fontSize: '1.3rem',

marginTop: '20px',

marginBottom: '10px',

},

userList: {

listStyle: 'none',

padding: 0,

background: '#ffffff',

borderRadius: '10px',

boxShadow: '0 2px 10px rgba(0,0,0,0.1)',

},

userItem: {

padding: '15px',

borderBottom: '1px solid #f1f2f6',

color: '#2f3542',

},

};

export default App;

**Output**

