REACT:

19.React-HOL

As an intern at OpenAI you are assigned the task of creating and testing a React application which will fetch and display a list of repository names for a given user.

App.js:

import React, { useState, useEffect } from 'react';

import GitClient from './GitClient';

import './App.css';

function App() {

const [repos, setRepos] = useState([]);

useEffect(() => {

async function fetchRepos() {

const repoNames = await GitClient.getRepositories('techiesyed');

setRepos(repoNames);

}

fetchRepos();

}, []);

return (

<div className="App">

<h1>GitHub Repositories</h1>

<ul>

{repos.map((repo, index) => (

<li key={index}>{repo}</li>

))}

</ul>

</div>

);

}

export default App;

GitClient.js:

import axios from 'axios';

class GitClient {

static async getRepositories(username) {

const response = await axios.get(`https://api.github.com/users/${username}/repos`);

return response.data.map(repo => repo.name);

}

}

export default GitClient;

GitClient.test.js:

import axios from 'axios';

import GitClient from './GitClient';

jest.mock('axios');

describe('Git Client Tests', () => {

test('should return repository names for techiesyed', async () => {

const dummyData = [

{ name: 'Repo1' },

{ name: 'Repo2' },

{ name: 'Repo3' }

];

axios.get.mockResolvedValue({ data: dummyData });

const repoNames = await GitClient.getRepositories('techiesyed');

expect(axios.get).toHaveBeenCalledWith('https://api.github.com/users/techiesyed/repos');

expect(repoNames).toEqual(['Repo1', 'Repo2', 'Repo3']);

});

});

Output:



