**19. ReactJS-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 './App.css';

import GitClient from './GitClient';

import { useEffect, useState } from 'react';

function App() {

  const [repositories, setRepositories] = useState([]);

  useEffect(() => {

    GitClient.getRepositories('techiesyed').then(r => setRepositories(r.data));

  }, []);

  return (

    <div className="App">

      <h1>Git repositories of User - TechieSyed</h1>

      {repositories.map(r => (

        <p key={r.name}>{r.name}</p>

      ))}

    </div>

  );

}

export default App;

**GitClient.js**

import axios from "axios";

class GitClient {

  static getRepositories(userName) {

    const url = `https://api.github.com/users/${userName}/repos`;

    return axios.get(url);

  }

}

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 dummyRepos = [

      { id: 1, name: 'react-sample-app' },

      { id: 2, name: 'node-api-project' }

    ];

    const mockedResponse = { data: dummyRepos };

    axios.get.mockResolvedValue(mockedResponse);

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

    expect(response.data).toEqual(dummyRepos);

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

    expect(axios.get).toHaveBeenCalledTimes(1);

  });

});

**Output:**

