# ReactJS Hands-On Lab 19 - Solutions

## 1. Create App

npx create-react-app gitclientapp

## 2. Install Axios

npm install axios

## 3. GitClient.js

import axios from 'axios';  
  
class GitClient {  
 static async getRepositories(user) {  
 const response = await axios.get(`https://api.github.com/users/${user}/repos`);  
 return response.data.map(repo => repo.name);  
 }  
}  
  
export default GitClient;

## 4. App.js Usage

import React, { useEffect, useState } from 'react';  
import GitClient from './GitClient';  
  
function App() {  
 const [repos, setRepos] = useState([]);  
  
 useEffect(() => {  
 GitClient.getRepositories("techiesyed").then(setRepos);  
 }, []);  
  
 return (  
 <div>  
 <h1>Repositories</h1>  
 <ul>{repos.map((name, i) => <li key={i}>{name}</li>)}</ul>  
 </div>  
 );  
}  
  
export default App;

## 5. 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" }];  
 axios.get.mockResolvedValue({ data: dummyData });  
  
 const result = await GitClient.getRepositories("techiesyed");  
 expect(result).toEqual(["Repo1", "Repo2"]);  
 });  
});