**WEEK-7\_ReactJs\_HOL-19**

**SUPERSET ID : 6393674**

**Objectives**

**• Understanding need for isolation in testing**

Isolation ensures that each unit of code (like functions or components) is tested independently without relying on external dependencies. This improves test reliability and makes debugging easier.

**• Understanding the concept of mocking**

Mocking is the process of replacing real functions or modules (like API calls) with dummy functions during testing. It helps simulate responses, test edge cases, and avoid actual network calls.

**• Using Jest for unit testing and mocking**

Jest is a JavaScript testing framework used for unit testing in React. It allows creating test suites and test cases with support for mocks and spies to simulate behaviors of modules like axios.

Create a new React application using *create-react-app* tool and name it as “gitclientapp”.

**App.js**

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

import GitClient from './GitClient';

function App() {

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

useEffect(() => {

const client = new GitClient();

client.getRepositories('techiesyed').then(setRepos);

}, []);

return (

<div style={{ padding: '20px', fontFamily: 'Arial' }}>

<h2>Repositories of techiesyed</h2>

<ul>

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

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

))}

</ul>

</div>

);

}

export default App;

**OUTPUT:**

