**WEEK 7**

**17.ReactJS-HOL**

**Explain how to consume REST APIs from React applications**

To consume REST APIs in React applications, you typically use HTTP requests to fetch or send data from/to a backend server. This is commonly done using:

**1. fetch() API (built-in)**

useEffect(() => {

fetch('https://api.example.com/data')

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

.then(data => setData(data));

}, []);

**2. axios library (popular alternative)**

import axios from 'axios';

useEffect(() => {

axios.get('https://api.example.com/data')

.then(response => setData(response.data));

}, []);

**Steps to consume REST API in React:**

1. Import useEffect and useState from React.
2. Use useState to store the response data.
3. Use useEffect to trigger API call after component mounts.
4. Display the data in JSX**.**

**Example:**

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

function UserList() {

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

useEffect(() => {

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

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

.then(data => setUsers(data));

}, []);

return (

<ul>

{users.map(user => <li key={user.id}>{user.name}</li>)}

</ul>

);

}