***NAME: HUZAIFA SHAHID***

***GROUP: ALI HAIDER***

***REPORT #: W:7,D:7***

***TASK TITLE Mini Project: Weather App or Blog Viewer using API***

## **1. Project Overview**

A **Weather App** or **Blog Viewer** uses an **external API** to fetch and display real-time data in a React app.

* **Weather App** → Displays current weather, temperature, and conditions for a city.
* **Blog Viewer** → Shows blog posts, titles, and content from an API.

## **2. Key Concepts Used**

* **API Calls** – Using fetch() or axios to get data from an API.
* **useEffect Hook** – To fetch data when the component loads.
* **useState Hook** – To store fetched data in state.
* **Conditional Rendering** – To show loading states and errors.

## **3. Example: Weather App**

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

export default function WeatherApp() {

const [weather, setWeather] = useState(null);

useEffect(() => {

fetch("https://api.openweathermap.org/data/2.5/weather?q=London&appid=YOUR\_API\_KEY&units=metric")

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

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

}, []);

return (

<div>

{weather ? (

<>

<h2>{weather.name}</h2>

<p>Temperature: {weather.main.temp}°C</p>

<p>Condition: {weather.weather[0].description}</p>

</>

) : (

<p>Loading weather...</p>

)}

</div>

);

}

## **4. Example: Blog Viewer**

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

export default function BlogViewer() {

const [posts, setPosts] = useState([]);

useEffect(() => {

fetch("https://jsonplaceholder.typicode.com/posts")

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

.then(data => setPosts(data.slice(0, 5)));

}, []);

return (

<div>

<h2>Latest Blog Posts</h2>

{posts.map(post => (

<div key={post.id}>

<h4>{post.title}</h4>

<p>{post.body}</p>

</div>

))}

</div>

);

}