VIT BHOPAL

PROJECT REPORT

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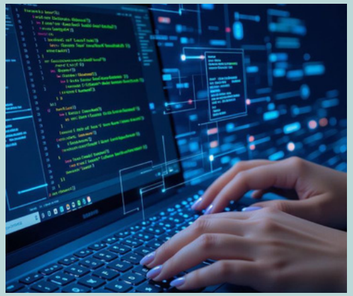
INTRODUCTION

It is a weather forecasting website made with the help of various programming languages like html , java, to help people detect the weather of the region they are in.



Step 1

to build the code for the website

Step 2

To make the frontend design

Step 3

and to run the programm

REASON BEHIND THIS

- To help people get quick and accurate weather updates.
- To build a real-world project using HTML, CSS, and JavaScript.
- To learn how APIs work and fetch real-time data.
- To create something useful for travel, planning, and safety.

Algorithm

- Step 1: Start the program.
- Step 2: User enters the city name in the input box.
- Step 3: Store the city name in a variable.
- Step 4: Create the API request URL using:
- Base URL
- City name
- API key
- Units (metric)
- Step 5: Send a request to the OpenWeather API using fetch().
- Step 6: Receive the JSON response from the server.
- Step 7: Check if the response code is “404”.
- If yes, show “City not found” message and stop.
- If no, continue.
- Step 8: Extract important weather details:
- Temperature
- Description
- Humidity
- wind speed
- Step 9: Display these weather details on the webpage.
- Step 10: End the program.

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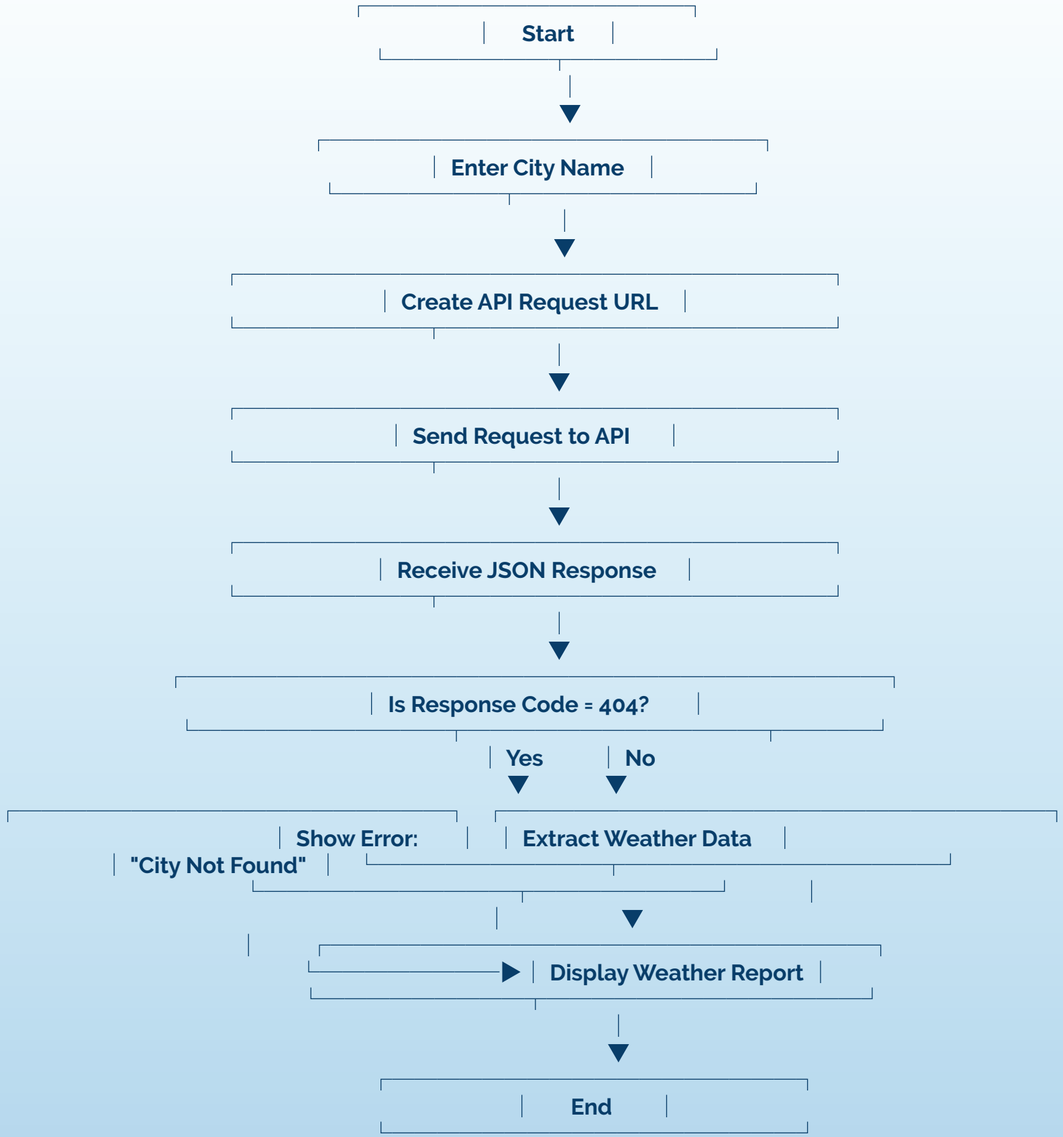
Flowcharting



CODES

```
<script>
    async function getWeather() {
        const city = document.getElementById("city").value;
        const apiKey = "1f731b27b00a0c69281ab249fa966366";
```

API KEY

BODY

```
document.getElementById("result").innerHTML = `
    <p class="temp">${data.main.temp}°C</p>
    <p class="desc">${data.weather[0].description}</p>
    <p>Humidity: ${data.main.humidity}%</p>
    <p>Wind Speed: ${data.wind.speed} m/s</p>
`;
```

OUTPUT

```
body {
    font-family: Arial, sans-serif;
    background: linear-gradient( #2baae6, #ffffff);
    text-align: center;
    padding: 30px;
```

Output


Weather Forecast
Bhopal
Check Weather
16.13°C
Mist
Humidity: 67%
Wind Speed: 0 m/s

Conclusion

- Gives instant weather updates of any city.
- Helps users plan their day (rain, temperature, humidity).
- Useful for travelers and students.
- Simple interface, easy to use.
- Shows real-time data using OpenWeather API.

Thank You!

for your attention!