

Weather App

HTML, CSS, JAVASCRIPT

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Country, City: Morocco, Casablanca



ktop/weather/index.html

New York



21°C
New York

73%
Humidity

1.79 km/h
Wind Speed

Weather App Project

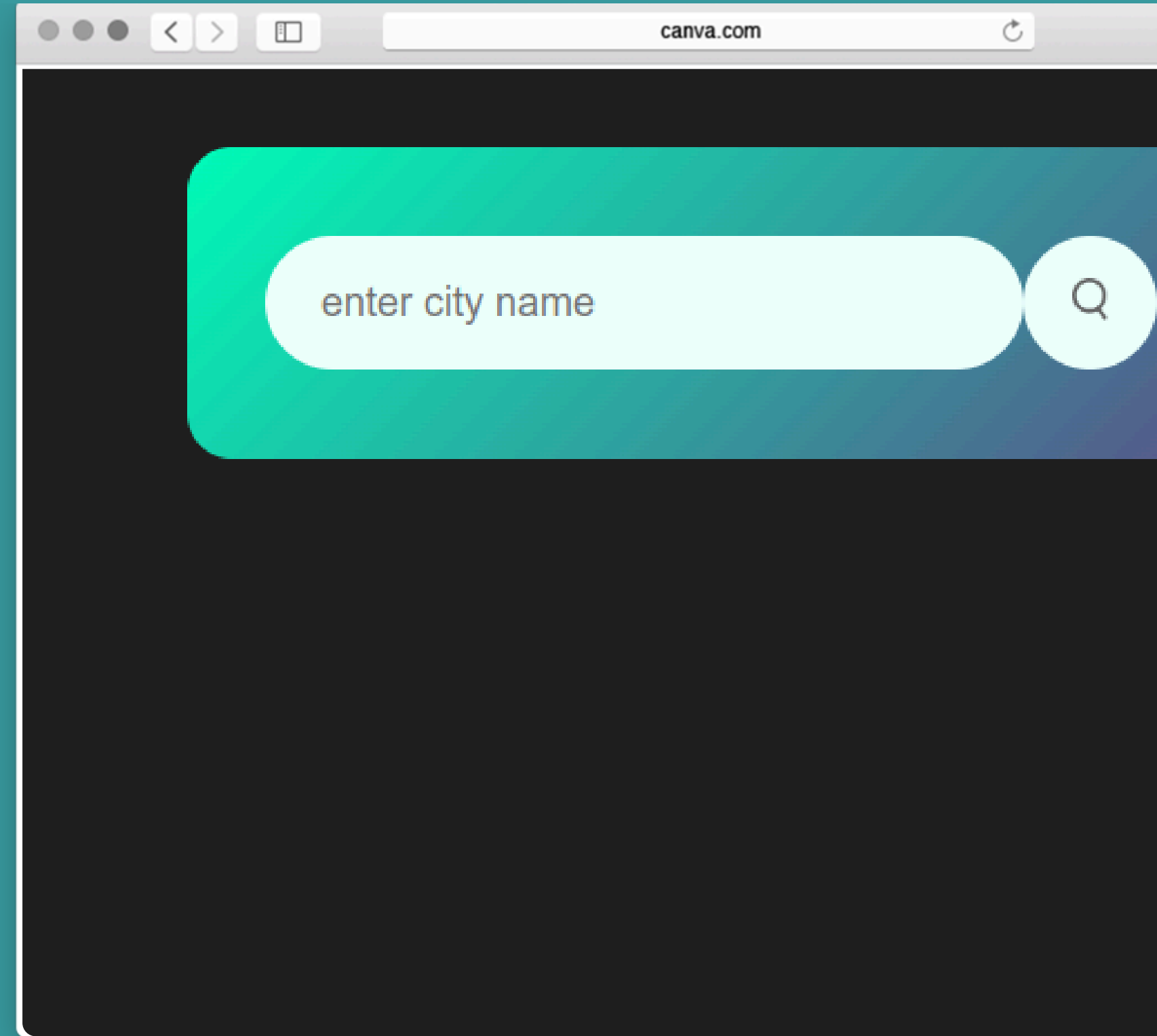
Description:

Developed a dynamic web application that provides real-time weather information using the OpenWeatherMap API. The app allows users to search for weather details by entering a city name and displays relevant data, including temperature, humidity, wind speed, and weather conditions.

Key Features:

Search Functionality:

Users can search for a city's weather by typing the name and clicking the search button.



Error Handling:

If the city name is invalid or not found, an error message is displayed, and the weather details are hidden.



Dynamic Weather Display:

The app dynamically updates the weather information, including temperature, city name, humidity, wind speed, and weather icon, based on the fetched data.




Structure:

1.HTML Layout:

Google Chrome ago 15 14:22

Weather App x +

File /home/pc/Desktop/weather/index.html



Marrakesh

35°C
Marrakesh

34% Humidity 2.06 km/h Wind Speed

Elements Console >> 1

```
<!DOCTYPE html>
<html lang="en">
  <head> ... </head>
  <body>
    ... <div class="card"> == $0
      <div class="search"> ... </div> flex
      <div class="error" style="display: none;"> ... </div>
      <div class="weather" style="display: block;"> ... </div>
    </div>
    <script> ... </script>
  </body>
</html>
```

html body div.card

Styles Computed Layout Event Listeners >>

Filter :hov .cls + -

```
font-family: 'Poppins', sans-serif;
box-sizing: border-box;

div {
  display: block;
  unicode-bidi: isolate;
}
```

margin 100

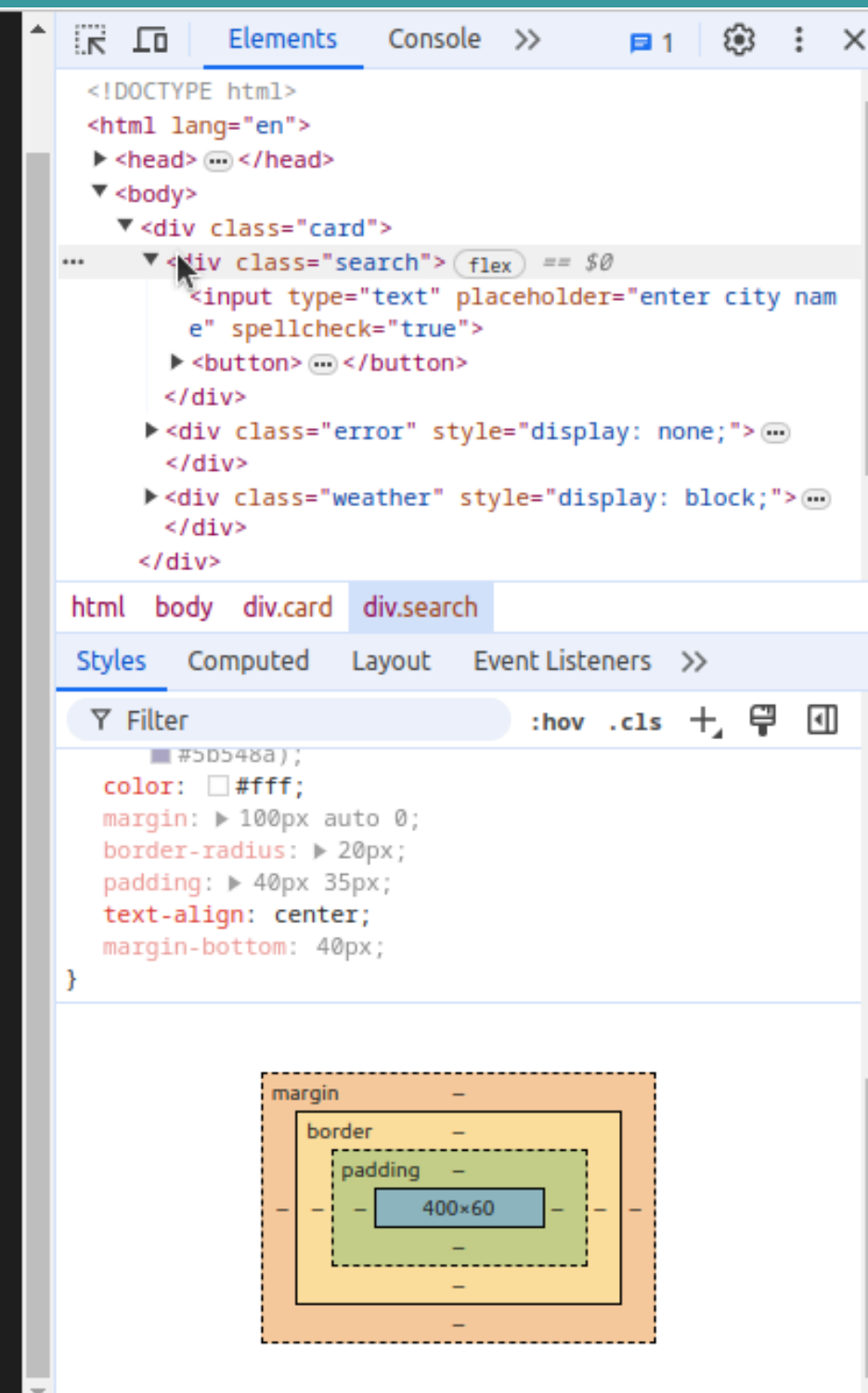
border -

padding 40

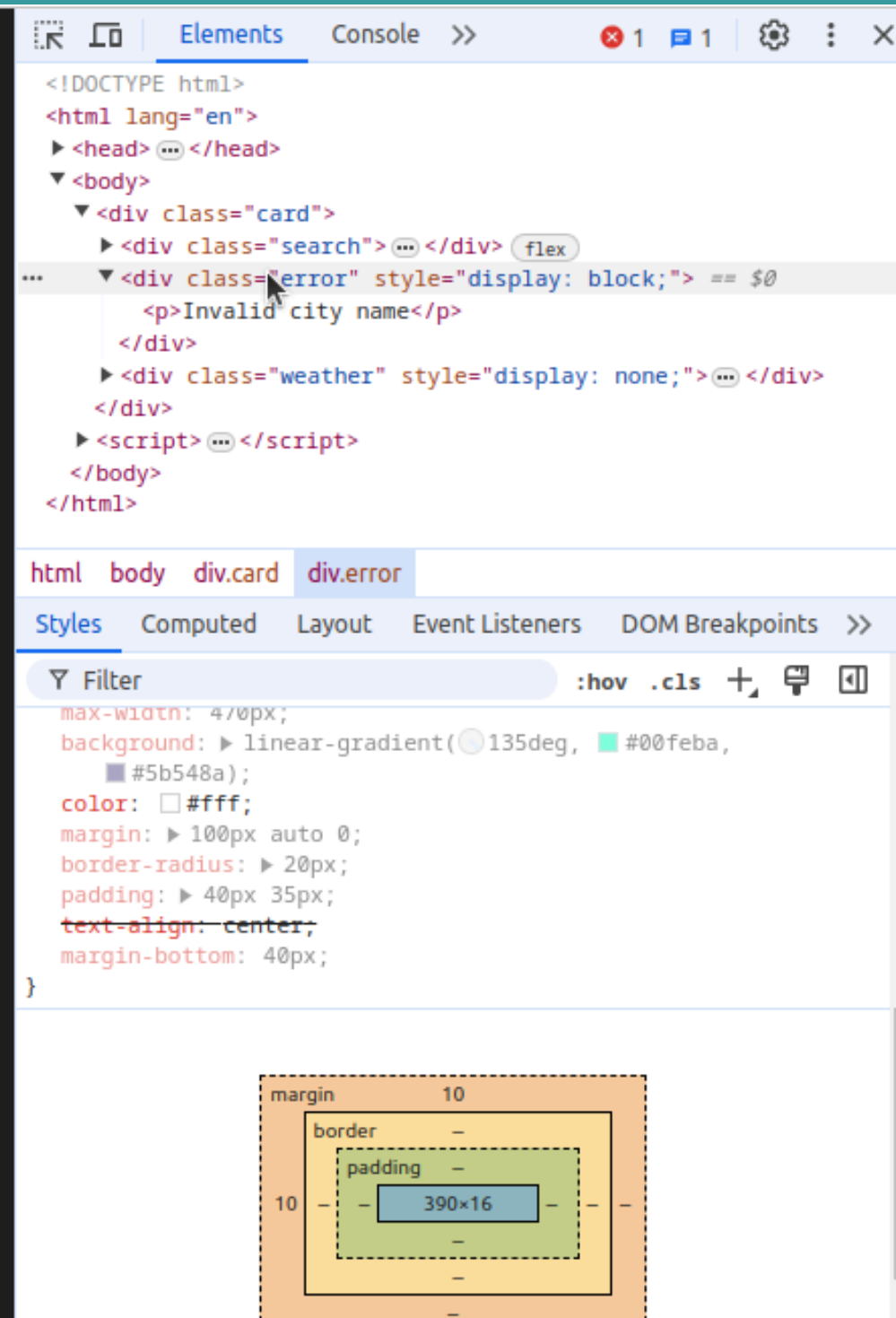
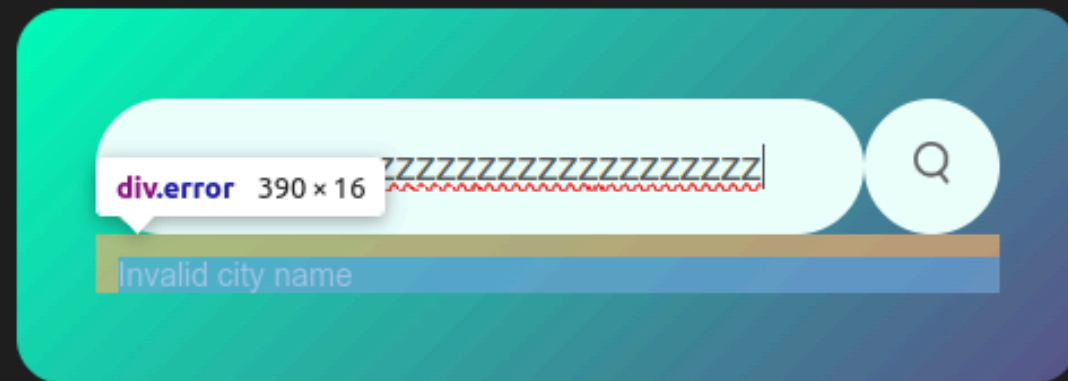
209 - 35 400x492 35 - 209

40

Card Container:
The main content is wrapped inside a card, which gives a focused area for displaying the search input, error message, and weather details.



Search Box:
An input field where users can enter the city name and a button for triggering the search.

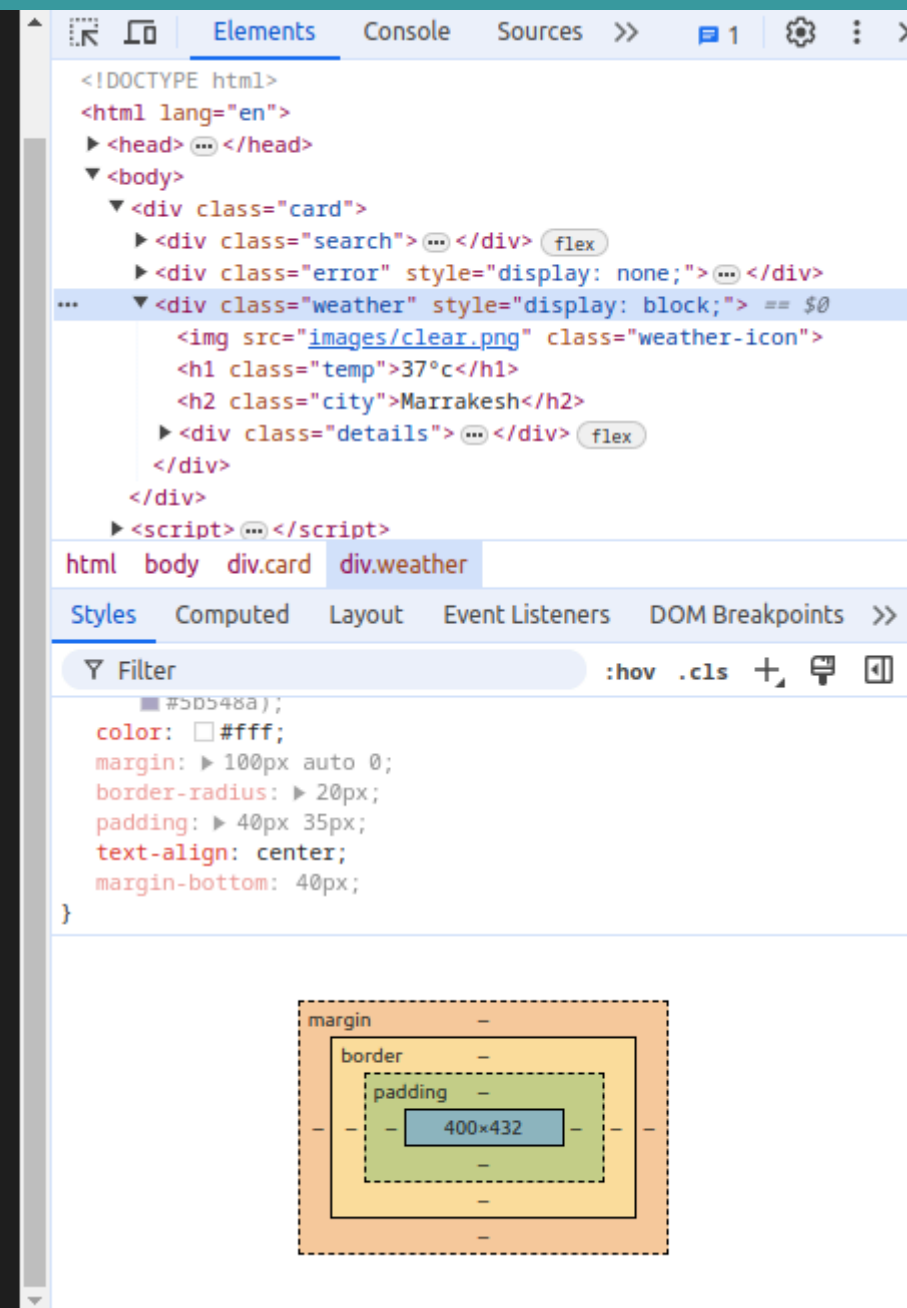
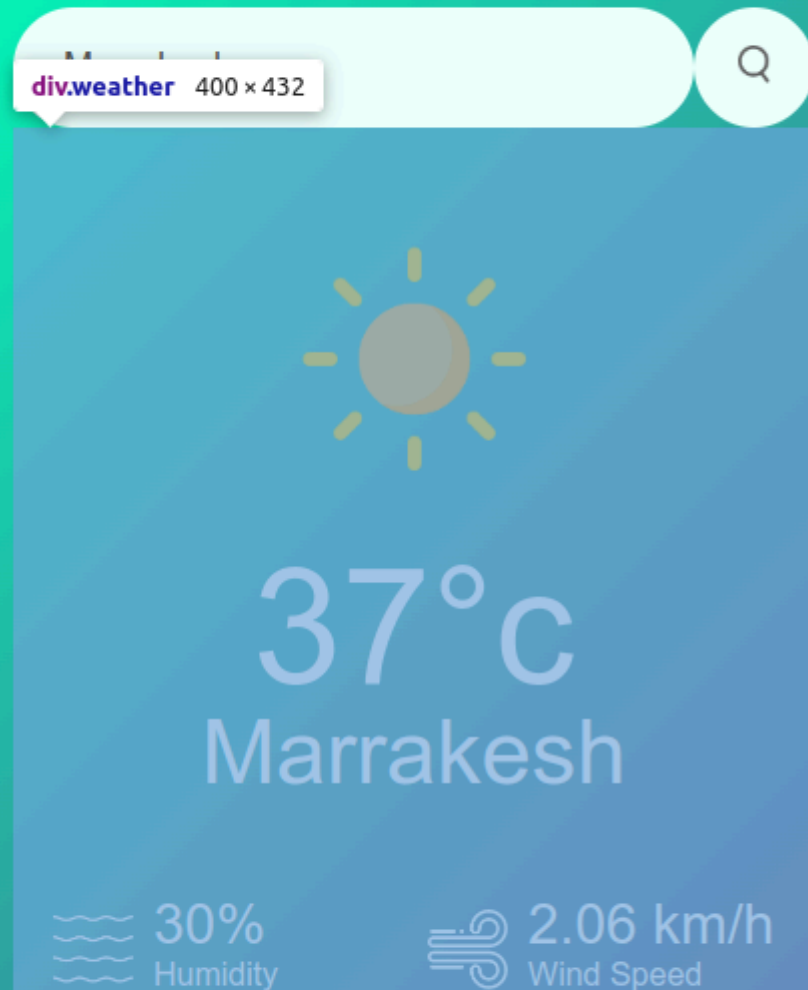


Error Message:

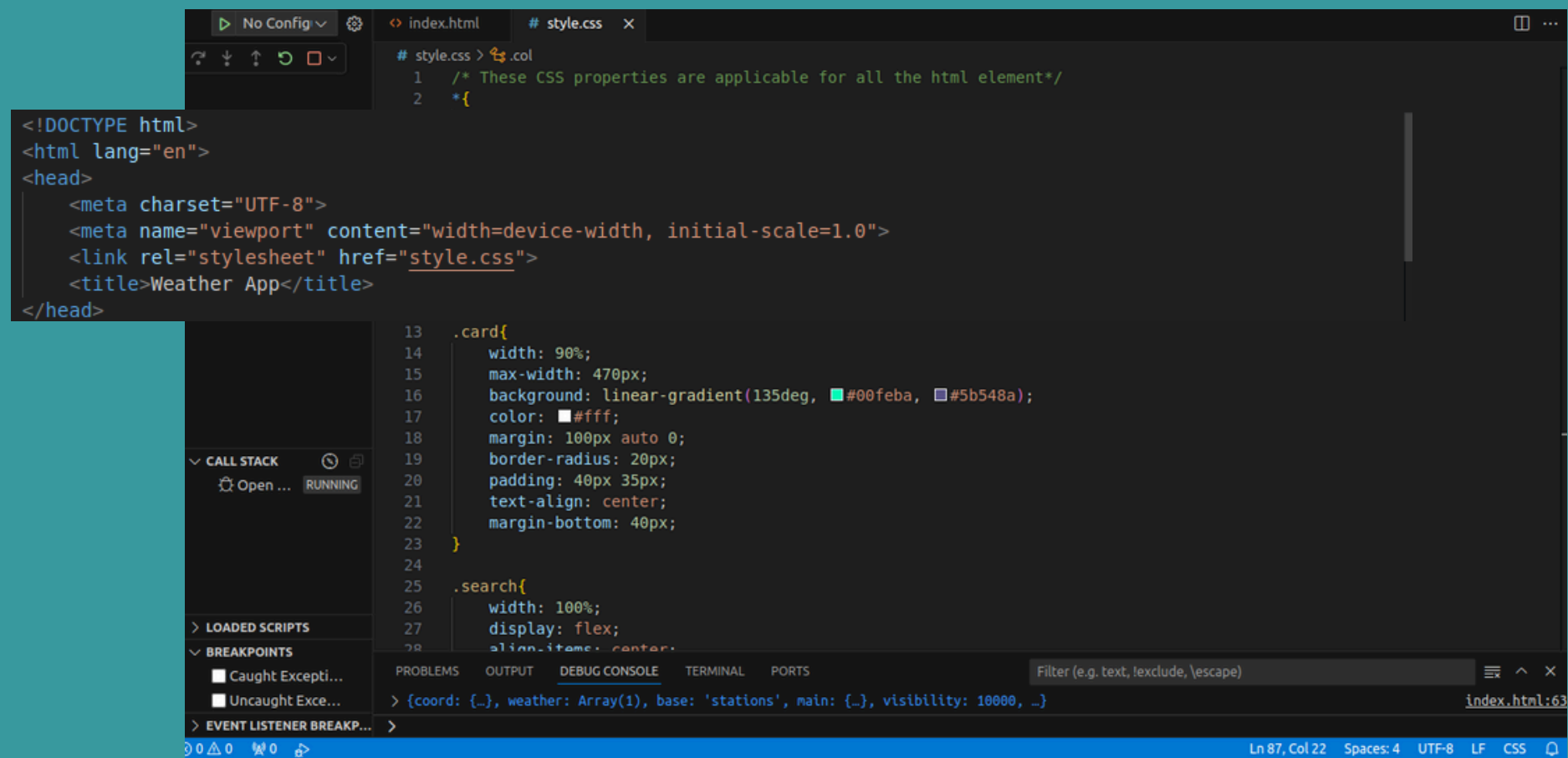
A section to display an error message if the city name is invalid.

Dynamic Weather Display:

The app dynamically updates the weather information, including temperature, city name, humidity, wind speed, and weather icon, based on the fetched data.



2.CSS Style



Stylesheet Link:

External CSS (style.css) is linked, providing style separation.

3.JavaScript Integration

JavaScript
Functions: The
script fetches data
from the
OpenWeatherMap
API and updates
the UI based on
the fetched data or
an error state.

```
ipt>
const apiKey = "1e3985e076ebdd797b57a9a64f76bdb3";
const apiUrl = "https://api.openweathermap.org/data/2.5/weather?units=metric&q=";

const searchBox = document.querySelector(".search input");
const searchBtn = document.querySelector(".search button");
const weatherIcon = document.querySelector(".weather-icon");

async function checkWeather(city){
  const response = await fetch(apiUrl + city + `&appid=${apiKey}`);

  if(response.status == 404){
    document.querySelector(".error").style.display = "block";
    document.querySelector(".weather").style.display = "none";
  }else{

    var data = await response.json();

    console.log(data);

    document.querySelector(".city").innerHTML = data.name;
    document.querySelector(".temp").innerHTML = Math.round(data.main.temp) + "°C";
    document.querySelector(".humidity").innerHTML = data.main.humidity + "%";
    document.querySelector(".wind").innerHTML = data.wind.speed + " km/h";
```

LEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Filter (e.g. text, !exclude, \escape)

ord: {...}, weather: Array(1), base: 'stations', main: {...}, visibility: 10000, ...}

Summary:

Successfully developed and deployed a responsive weather web application utilizing modern web technologies, including HTML, CSS, and JavaScript. Integrated the OpenWeatherMap API to provide real-time weather data with robust error handling and a user-friendly interface. This project showcases my ability to create functional and visually appealing web applications with a focus on user experience and efficiency.