OpenWeather API

Weather information plays a crucial role in various applications, including websites and mobile apps, enabling users to plan their activities effectively. The OpenWeather API offers a reliable and widely used solution for accessing up-to-date weather data due to its extensive coverage and ease of integration.

To obtain weather data in Celsius instead of Fahrenheit, the API call should include the "units" parameter set to "metric"

<https://api.openweathermap.org/data/2.5/weather?q={city_name}&units=metric&appid={your_api_key>}

By setting the "units" parameter to "metric", the API will return temperature values in Celsius.

Displaying Weather Condition Images: The OpenWeather API provides weather condition codes that can be used to display appropriate weather icons or images. These images enhance the visual representation of weather conditions on web pages. For example, to display a night thunderstorm image, you can use the following URL:

<https://openweathermap.org/img/wn/11n.png>

In the provided URL, "11n" represents the weather condition code for a night thunderstorm. By modifying the code, you can retrieve images for different weather conditions.

Retrieving Weather Conditions in French: To retrieve weather conditions in French, the API call should include the "lang" parameter set to "fr". The API call can be formulated as follows:

<https://api.openweathermap.org/data/2.5/weather?q={city_name}&lang=fr&appid={your_api_key>}

By setting the "lang" parameter to "fr", the API response will provide weather conditions in the French language.

Ten Weather Conditions for Display: The OpenWeather API offers various weather conditions that can be displayed on web pages. The following is a list of ten weather conditions in dot notation based on the response object:

* weather.0.main: Main weather condition
* weather.0.description: Weather condition description
* weather.0.icon: Weather condition icon code
* main.temp: Temperature
* main.feels\_like: "Feels like" temperature
* main.humidity: Humidity percentage
* wind.speed: Wind speed
* wind.deg: Wind direction in degrees
* clouds.all: Cloudiness percentage
* sys.sunrise: Sunrise time (Unix timestamp)