**Weather API Documentation**

## **Overview**

The Weather API provides users with real-time weather information based on their registered location. The API includes user registration, authentication, and weather data retrieval for a specific username.

**Base URL**

<https://localhost:7260/api/weather>

**Repository URL**

[**https://github.com/Cengmesutkaya/WeatherApi**](https://github.com/Cengmesutkaya/WeatherApi)

## **Authentication**

The API uses **Basic Authentication** to secure its endpoints. All requests to protected endpoints must include the Authorization header containing the user's username and password encoded in base64.

### **Authorization Header Format**

Authorization: Basic <base64encoded(username:password)>

## **Endpoints**

### **1. User Registration**

**URL:** /api/registration  
**Method:** POST  
**Authentication:** Not required

**Request Body:**

{

   "firstname": "Mesut",

   "lastname": "Kaya",

   "Username": "",

   "email": "mesut.kaya@gmail.com",

   "password": "StrongPassword123",

   "address": "Eskişehir Turkey",

   "birthdate": "1990-02-15",

   "phoneNumber": "+134567890",

   "livingCountry": "USA",

   "citizenCountry": "USA"

}

#### **Response:**

* **201 Created** – Successfully registered the user.
* **400 Bad Request** – Validation error (e.g., missing required fields or invalid format).

#### **Example Response (Success):**

{

    "message": "User registered: ",

    "username": "meka12117"

}

### **2. User Login**

**URL:** /api/login  
**Method:** POST

**Request Body:**

{

  "username": "meka71900",

  "password": "StrongPassword123"

}

#### **Response:**

* **200 OK** – Login successful.
* **401 Unauthorized** – Invalid username or password.

#### **Example Response (Success):**

**eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1bmlxdWVfbmFtZSI6Im1la2E3MTkwMCIsImVtYWlsIjoibWVzdXQua2F5YUBnbWFpbC5jb20iLCJuYmYiOjE3MjY4OTI0MjcsImV4cCI6MTcyNjg5NjAyNywiaWF0IjoxNzI2ODkyNDI3LCJpc3MiOiJXZWF0aGVyQXBpIiwiYXVkIjoiV2VhdGhlckFwaVVzZXJzIn0.6s5EI-c48UwnoTIOPHNEUet3vwM5vTbGMholgUSHVqQ**

### **3. Get Weather Data by Username**

**URL:** /api/weather/{username}  
**Method:** GET  
**Authentication:** Required

#### **Path Parameters:**

* {username}: The username for which to retrieve the weather information.
* https://localhost:7260/api/weather/meka71900

#### **Response:**

* **200 OK** – Returns weather data for the requested location.
* **401 Unauthorized** – Invalid authentication or missing credentials.
* **404 Not Found** – If the user or their associated location is not found.

#### **Example Response:**

{

"coord": {

"lon": 36.85,

"lat": -3.3667

},

"weather": [

{

"id": 500,

"main": "Rain",

"description": "light rain",

"icon": "10d"

}

],

"base": "stations",

"main": {

"temp": 291.44,

"feels\_like": 291.65,

"temp\_min": 291.44,

"temp\_max": 291.44,

"pressure": 1018,

"humidity": 89,

"sea\_level": 1018,

"grnd\_level": 887

},

"visibility": 10000,

"wind": {

"speed": 2.46,

"deg": 111,

"gust": 3.72

},

"rain": {

"1h": 0.12

},

"clouds": {

"all": 100

},

"dt": 1726893280,

"sys": {

"country": "TZ",

"sunrise": 1726888947,

"sunset": 1726932530

},

"timezone": 10800,

"id": 149155,

"name": "Usa River",

"cod": 200

}