**Get Weather Data**

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**Overview**

This API endpoint provides randomly generated weather data, including temperature values in **Celsius** and **Fahrenheit**, a brief weather summary, and the associated date.

**Endpoint & Environments**

**Base URL**:

[**https://localhost:7142/**](https://localhost:7142/)

**Endpoint**:

**GET**: [**/WeatherForecast**](https://localhost:7142/WeatherForecast)

**Full Request URL**:

**GET**: [**https://localhost:7142/**](https://localhost:7142/)[**WeatherForecast**](https://localhost:7142/WeatherForecast)

**Request Details**

**Method: GET**

**Headers:**

| **Header** | **Value** |
| --- | --- |
| **Accept** | **application/json** |

**Example cURL Request**

curl -X 'GET' \

'https://localhost:7142/WeatherForecast' \

-H 'accept: application/json'

**Request Header**

content-type: application/json; charset=utf-8

date: Sun,23 Feb 2025 10:11:44 GMT

server: Kestrel

**Response Details**

**Success Response (200 OK)**

A **successful** response typically looks like this:

[{

"date": "2025-02-24",

"temperatureC": -11,

"temperatureF": 13,

"summary": "Hot"

},

{

"date": "2025-02-25",

"temperatureC": -4,

"temperatureF": 25,

"summary": "Cool"

}]

**Response Fields**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| date | string | The date for which weather data is generated (YYYY-MM-DD). |
| temperatureC | int | Temperature in Celsius. |
| temperatureF | int | Temperature in Fahrenheit. |
| summary | string | A brief weather description (e.g., "Hot", "Cool", "Bracing"). |

**Possible Error Responses**

| **Status Code** | **Meaning** | **Example Response** |
| --- | --- | --- |
| 400 | Bad Request | { "error": "Invalid request format" } |
| 404 | Not Found | { "error": "Endpoint not found" } |
| 500 | Internal Server Error | { "error": "An unexpected error occurred" } |

**Get Region Data**

**Overview**

This API retrieves **comprehensive region data**, structured as an array of objects. Each object contains:

* A **unique Region ID (GUID)**
* An **alphanumeric region code**
* A **descriptive region name**
* The **URL for the associated region image**

**Endpoint & Environments**

**Base URL**:

[**https://localhost:7142/**](https://localhost:7142/)

**Endpoint**:

**GET**: [**/api/Regions**](https://localhost:7142/WeatherForecast)

**Full Request URL**:

**GET**: [**https://localhost:7142/**](https://localhost:7142/)[**api/Regions**](https://localhost:7142/WeatherForecast)

**Request Details**

**Method: GET**

**Headers:**

| **Header** | **Value** |
| --- | --- |
| **Accept** | **application/json** |

**Example cURL Request**

curl -X 'GET' \

'https://localhost:7142/api/Regions' \

-H 'accept: \*/\*'

**Response Details**

**Success Response (200 OK)**

A **successful** response typically looks like this:

{

"id": "0ada0027-8694-4cec-d890-08dd50d2769b",

"code": "BDD",

"name": "Bangladesh",

"regionImgUrl": "bangladesh.jpeg"

},

{

"id": "4220cf6c-e314-4e7e-d891-08dd50d2769b",

"code": "BDS",

"name": "badsbda",

"regionImgUrl": "badasdasd"

},

**Response Fields**

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| Id | Guid | Unique identifier for the region. |
| Code | String | Alphanumeric region code. |
| Name | String | Name of the region. |
| regionImgUrl | string | URL of the region's image. |

**Possible Error Responses**

| **Status Code** | **Meaning** | **Example Response** |
| --- | --- | --- |
| 400 | Bad Request | { "error": "Invalid request format" } |
| 404 | Not Found | { "error": "Endpoint not found" } |
| 500 | Internal Server Error | { "error": "An unexpected error occurred" } |

**Create Region Data**

**Overview**

This API allows you to create a new region by submitting a **POST** request with the required region details. The request must include:

* An **alphanumeric region code** (maximum 3 letters)
* A **descriptive region name**
* The **URL for the associated region image**

**Endpoint & Environments**

**Base URL**:

[**https://localhost:7142/**](https://localhost:7142/)

**Endpoint**:

**POST**: [**/api/Regions**](https://localhost:7142/WeatherForecast)

**Full Request URL**:

**POST**: [**https://localhost:7142/**](https://localhost:7142/)[**api/Regions**](https://localhost:7142/WeatherForecast)

**Request Details**

**Method: POST**

**Headers:**

| **Header** | **Value** |
| --- | --- |
| **Accept** | **application/json** |
| **Content-Type** | **application/json** |

**Request Body (Json)**

{ "code": "SRL", "name": "Srilanka", "regionImgUrl": "srilanka.jpeg" }

**Example cURL Request**

curl -X 'POST' \

'https://localhost:7142/api/Regions' \ -H 'accept: application/json' \

-H 'Content-Type: application/json' \

-d '{ "code": "SRL", "name": "Srilanka", "regionImgUrl": "srilanka.jpeg" }'

**Response Details**

**Success Response (201 Created)**

A **successful** response typically looks like this:

{

"id": "81f94f6f-9c93-47ec-5819-08dd53f8e6c1",

"code": "SRL",

"name": "Srilanka",

"regionImgUrl": "srilanka.jpeg"

}

**Response Headers**

| **Header** | **Value** |
| --- | --- |
| content-type | application/json; charset=utf-8 |
| date | Sun, 23 Feb 2025 10:57:43 GMT |
| location | <https://localhost:7142/api/Regions/81f94f6f-9c93-47ec-5819-08dd53f8e6c1> |
| server | Kestrel |

**Possible Error Responses**

| Status Code | Meaning | Example Response |
| --- | --- | --- |
| 400 | Bad Request (Validation Error) |  |

{

"type": "https://tools.ietf.org/html/rfc9110#section-15.5.1",

"title": "One or more validation errors occurred.",

"status": 400,

"errors": {

"Code": [

"Code Has To Be Maximum of 3 Letters"

]

},

"traceId": "00-5acf8c7f9fc0bd76f803fa4e1414b827-28c127a0bfbc1374-00"

}

| 500 | Internal Server Error | { "error": "An unexpected error occurred" } |

**Get Region Data by Id**

**Overview**

This API retrieves detailed information about a specific region based on its unique identifier (**GUID**). The response includes the **region's ID, alphanumeric code, descriptive name, and associated image URL**.

**Endpoint & Environments**

**Base URL**:

[**https://localhost:7142/**](https://localhost:7142/)

**Endpoint**:

**GET**: [**/api/Regions**](https://localhost:7142/WeatherForecast)**/{id}**

**Full Request URL**:

**GET** : [**https://localhost:7142/**](https://localhost:7142/)[**api/Regions**](https://localhost:7142/WeatherForecast)**/0ada0027-8694-4cec-d890-08dd50d2769b**

**Request Details**

**Method: GET**

**Path Parameter:**

| Name | Type | Required | Description |
| --- | --- | --- | --- |
| id | string (UUID) | Yes | The unique identifier of the region |

**Headers:**

| **Header** | **Value** |
| --- | --- |
| **Accept** | **application/json** |

**Example cURL Request**

curl -X 'GET' \

'https://localhost:7142/api/Regions/0ada0027-8694-4cec-d890-08dd50d2769b' \

-H 'accept: application/json'

**Response Details**

**Success Response (200 Ok)**

A **successful** response typically looks like this:

{

"id": "0ada0027-8694-4cec-d890-08dd50d2769b",

"code": "BDD",

"name": "Bangladesh",

"regionImgUrl": "bangladesh.jpeg"

}

**Response Headers**

| Header | Value |
| --- | --- |
| content-type | application/json; charset=utf-8 |
| date | Sun, 23 Feb 2025 11:28:40 GMT |
| server | Kestrel |

**Possible Error Responses**

| **Status Code** | **Meaning** | **Example Response** |
| --- | --- | --- |
| 400 | Bad Request | { "error": "Invalid request format" } |
| 404 | Not Found | { "error": "Region not found" } |
| 500 | Internal Server Error | { "error": "An unexpected error occurred" } |

**Update Region Data**

**Overview**

This API allows updating an existing region's details using a **PUT** request. The request requires a **region ID (GUID)** and includes updated values for **region code, name, and image URL**.

**Endpoint & Environments**

**Base URL**:

[**https://localhost:7142/**](https://localhost:7142/)

**Endpoint**:

**PUT**: [**/api/Regions**](https://localhost:7142/WeatherForecast)**/{id}**

**Full Request URL**:

**PUT** : [**https://localhost:7142/**](https://localhost:7142/)[**api/Regions**](https://localhost:7142/WeatherForecast)**/0ada0027-8694-4cec-d890-08dd50d2769b**

**Request Details**

**Method: PUT**

**Path Parameter:**

| Name | Type | Required | Description |
| --- | --- | --- | --- |
| id | string (GUID) | Yes | The unique identifier of the region |

**Headers:**

| **Header** | **Value** |
| --- | --- |
| **Accept** | **application/json** |
| **Content-Type** | **application/json** |

**Request Body:**

{

"code": "UAE",

"name": "UnitedArabEmirates",

"regionImgUrl": "uae.jpeg"

}

**Example cURL Request**

curl -X 'PUT' \

'https://localhost:7142/api/Regions/0ada0027-8694-4cec-d890-08dd50d2769b' \

-H 'accept: application/json' \

-H 'Content-Type: application/json' \

-d '{

"code": "UAE",

"name": "UnitedArabEmirates",

"regionImgUrl": "uae.jpeg"

}'

**Response Details**

**Success Response (200 Ok)**

A **successful** response typically looks like this:

{

"id": "0ada0027-8694-4cec-d890-08dd50d2769b",

"code": "UAE",

"name": "UnitedArabEmirates",

"regionImgUrl": "uae.jpeg"

}

**Response Headers**

| Header | Value |
| --- | --- |
| content-type | application/json; charset=utf-8 |
| date | Sun, 23 Feb 2025 11:28:40 GMT |
| server | Kestrel |

**Possible Error Responses**

| Status Code | Meaning | Example Response |
| --- | --- | --- |
| 400 | Bad Request | { "error": "Invalid request format" } |
| 404 | Not Found | { "error": "Region not found" } |
| 422 | Unprocessable Entity | { "error": "Validation failed: Code must be exactly 3 letters" } |
| 500 | Internal Server Error | { "error": "An unexpected error occurred" } |

**Delete Region Data**

**Overview**

This API allows deleting an existing region using a **DELETE** request. The request requires a **region ID (GUID)** as a path parameter. Upon successful deletion, the API returns the deleted region details.

**Endpoint & Environments**

**Base URL**:

[**https://localhost:7142/**](https://localhost:7142/)

**Endpoint**:

**DELETE**: [**/api/Regions**](https://localhost:7142/WeatherForecast)**/{id}**

**Full Request URL**:

**DELETE** : [**https://localhost:7142/**](https://localhost:7142/)[**api/Regions**](https://localhost:7142/WeatherForecast)**/6884F7D7-AD1F-4101-8DF3-7A6FA7387D81**

**Request Details**

**Method: DELETE**

**Path Parameter:**

| Name | Type | Required | Description |
| --- | --- | --- | --- |
| id | string (GUID) | Yes | The unique identifier of the region |

**Headers:**

| **Header** | **Value** |
| --- | --- |
| **Accept** | **application/json** |
| **Content-Type** | **application/json** |

**Example cURL Request**

curl -X 'DELETE' \

'https://localhost:7142/api/Regions/6884F7D7-AD1F-4101-8DF3-7A6FA7387D81' \

-H 'accept: application/json'

**Response Details**

**Success Response (200 Ok)**

A **successful** response typically looks like this:

{

"id": "6884f7d7-ad1f-4101-8df3-7a6fa7387d81",

"code": "NTL",

"name": "Northland",

"regionImgUrl": null

}

**Response Headers**

| Header | Value |
| --- | --- |
| content-type | application/json; charset=utf-8 |
| date | Sun, 23 Feb 2025 11:28:40 GMT |
| server | Kestrel |

**Possible Error Responses**

| Status Code | Meaning | Example Response |
| --- | --- | --- |
| 400 | Bad Request | { "error": "Invalid request format" } |
| 404 | Not Found | { "error": "Region not found" } |
| 500 | Internal Server Error | { "error": "An unexpected error occurred" } |

**User Registration API**

**Overview**

This API allows new users to register by providing a **username**, **password**, and **roles**. Upon successful registration, the API returns a success message.

**Endpoint & Environments**

**Base URL**:

[**https://localhost:7142/**](https://localhost:7142/)

**Endpoint**:

**POST**: [**/api/Auth/Register**](https://localhost:7142/WeatherForecast)

**Full Request URL**:

**POST**: [**https://localhost:7142/**](https://localhost:7142/)[**api/**](https://localhost:7142/WeatherForecast)**Auth/Register**

**Request Details**

**Method: POST**

**Headers:**

| **Header** | **Value** |
| --- | --- |
| **Accept** | **application/json** |
| **Content-Type** | **application/json** |

**Request Body (JSON Format)**

| Name |  | Type | Required | Description |
| --- | --- | --- | --- | --- |
| username |  | string | Yes | The email or username of the new user |
| password |  | string | Yes | The user's password (must meet security requirements) |
| roles |  | array of strings | Yes | List of roles assigned to the user (e.g., admin, reader) |

**Example Request Body**

{

"username": "karim@example.com",

"password": "12345\*",

"roles": [

"reader"

]

}

**Example cURL Request**

curl -X 'POST' \

'https://localhost:7142/api/Auth/Register' \

-H 'accept: application/json' \

-H 'Content-Type: application/json' \

-d '{

"username": "karim@example.com",

"password": "12345\*",

"roles": [

"reader"

]

}'

**Response Details**

User Was Registered! Please LogIn

**Success Response (200 Ok)**

A **successful** response typically looks like this:

{

"username": "karim@example.com",

"password": "12345\*",

}

**Response Headers**

| Header | Value |
| --- | --- |
| content-type | text/plain; charset=utf-8 |
| date | Sun, 23 Feb 2025 11:28:40 GMT |
| server | Kestrel |

**Possible Error Responses**

| Status Code | Meaning | Example Response |
| --- | --- | --- |
| 400 | Bad Request | { "error": "Invalid input data" } |
| 409 | Conflict | { "error": "User already exists" } |
| 500 | Internal Server Error | { "error": "An unexpected error occurred" } |

**User Login API**

**Overview**

This API allows registered users to log in by providing their **username** and **password**. Upon successful authentication, a **JWT token** is returned, which can be used for authorization in subsequent requests.

**Endpoint & Environments**

**Base URL**:

[**https://localhost:7142/**](https://localhost:7142/)

**Endpoint**:

**POST**: [**/api/Auth/Login**](https://localhost:7142/WeatherForecast)

**Full Request URL**:

**POST**: [**https://localhost:7142/**](https://localhost:7142/)[**api/**](https://localhost:7142/WeatherForecast)**Auth/Login**

**Request Details**

**Method: POST**

**Headers:**

| **Header** | **Value** |
| --- | --- |
| **Accept** | **application/json** |
| **Content-Type** | **application/json** |

**Request Body (JSON Format)**

| Name |  | Type | Required | Description |
| --- | --- | --- | --- | --- |
| username |  | string | Yes | The email or username of the new user |
| password |  | string | Yes | The user's password |

**Example Request Body**

{

"username": "karim@example.com",

"password": "12345\*",

}

**Example cURL Request**

curl -X 'POST' \

'https://localhost:7142/api/Auth/Login' \

-H 'accept: application/json' \

-H 'Content-Type: application/json' \

-d '{

"username": "karim@example.com",

"password": "12345\*"

}'

**Response Details**

{

"jwtToken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJodHRwOi8vc2NoZW1hcy54bWxzb2FwLm9yZy93cy8yMDA1LzA1L2lkZW50aXR5L2NsYWltcy9lbWFpbGFkZHJlc3MiOiJrYXJpbUBleGFtcGxlLmNvbSIsImh0dHA6Ly9zY2hlbWFzLm1pY3Jvc29mdC5jb20vd3MvMjAwOC8wNi9pZGVudGl0eS9jbGFpbXMvcm9sZSI6IlJlYWRlciIsImV4cCI6MTc0MDMxNDk2MywiaXNzIjoiaHR0cHM6Ly9sb2NhbGhvc3Q6NzE0Mi8iLCJhdWQiOiJodHRwczovL2xvY2FsaG9zdDo3MTQyLyJ9.h3AbiLOm6UrNPNRG3\_QsuCmvyRMLyrrSWy-n-BfeOrs"

}

**Success Response (200 Ok)**

**Response Headers**

| Header | Value |
| --- | --- |
| content-type | application/json; charset=utf-8 |
| date | Sun, 23 Feb 2025 11:28:40 GMT |
| server | Kestrel |

**Possible Error Responses**

| Status Code | Meaning | Example Response |
| --- | --- | --- |
| 400 | Bad Request | { "error": "Invalid username or password" } |
| 401 | Unauthorized | { "error": "Authentication failed" } |
| 500 | Internal Server Error | { "error": "An unexpected error occurred" } |