Global Weather API

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# API Summary

Weather API offers you to access to country list of cities and city weather details. Able to integrate with your existing system to meet your business requirements.

All the data can be accessible and control through the API.

# Prerequisite

* Before using the API, you need to have access to global weather soap service.
* Data will be returned in standard JSON format. Please refer to the [JavaScript Object Notation (JSON)](https://www.json.org/) to develop the data interchange format. JSON library.

# API List

You can call the API with HTTP Request.

|  |  |  |
| --- | --- | --- |
| No. | API | Function |
| 1 | GetWeather | Get the weather details of the city of given country |
| 2 | GetCityByCountry | Get the city list of the given country |

## API: GetWeather

**URL:** http://{hosturl}//v1/weather?country=Australia&city=Melbourne

**Method:** GET

**Query Parameters:** country=type String, city= type String

**Function:** Get the weather details of the city of given country

**API Flow**:

1. Start the flow with logging request details.
2. Validate the inputs parameters.
3. Generate the payload for soap api
4. Retry 3 times for the global weather soap api to get the response
5. Catch exception strategy handled in case any server error.
6. In case no payload generates the data not found response and return business exception
7. Got the payload call the response generate flow to replace special characters
8. Generate and convert data xml to json to return response.

**Success Response:**

Code: 200

Content: {

"city": "Melbourne",

"time": "11 AM",

"wind": "15 km per hour",

"visibility": "10 km",

"skyConditions": "sunny",

"temperature": "18",

"dewPoint": "2 C",

"relativeHumidity": "35",

"weatherStatus": "Normal"

}

**Error Response:**

Code: 400

Content:

{

"type": "System Error",

"status": "400",

"statusCode": "Bad request",

"message": "Unable to process the request."

}

Or

Code: 404

Content: {

"type": "System Error",

"status": "404",

"statusCode": "Resource Not Found",

"message": "The requested resource 'v1/example' was not found using the API method 'GET'."

}

**Validation Error Details:**

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Error Code** | **Response Message** | **Causes** |
| 1 | 400 | Invalid City | Empty Parameter |
| 2 | 400 | Invalid Country | Empty Parameter |
| 3 | 404 | Resource Not Found. | Wrong API Method |
| 4 | 405 | The requested format in the Accept headers is not acceptable. | Not acceptable Headers |
| 5 | 406 | The requested format in the Accept headers is not acceptable. | Not acceptable |
| 6 | 415 | The request has a media type that is not supported | Unsupported media type |
| 7 | 422 | No Weather Information Found. | No Data Found |
| 8 | 500 | Server Error. Try again later. | Cannot complete the request because the server encounters an error. |

## API: GetCityByCountry

**URL:** http://{hosturl}// /v1/city?country=Australia

**Method:** GET

**Query Parameters:** country=type String

**Function:** Get the list of the city of given country

**API Flow**:

1. Start the flow with logging request details.
2. Validate the inputs parameters.
3. Generate the payload for soap api
4. Retry 3 times for the global weather soap api to get the response
5. Catch exception strategy handled in case any server error.
6. In case no payload generates the data not found response and return business exception
7. Got the payload call the response generate flow to replace special characters
8. Generate and convert data xml to json to return response.

**Success Response:**

Code: 200

Content: {

"cities": [

"Archerfield Aerodrome",

"Amberley Aerodrome",

"Alice Springs Aerodrome",

"Brisbane Airport M. O",

"Coolangatta Airport Aws",

"Cairns Airport",

"Charleville Airport",

"Gladstone",

"Longreach Airport",

"Mount Isa Amo",

],

"count": 10

}

**Error Response:**

Code: 400

Content:

{

"type": "System Error",

"status": "400",

"statusCode": "Bad request",

"message": "Unable to process the request."

}

Or

Code: 404

Content: {

"type": "System Error",

"status": "404",

"statusCode": "Resource Not Found",

"message": "The requested resource 'v1/example' was not found using the API method 'GET'."

}

**Validation Error Details:**

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Error Code** | **Response Message** | **Causes** |
| 1 | 400 | Invalid City | Empty Parameter |
| 2 | 400 | Invalid Country | Empty Parameter |
| 3 | 404 | Resource Not Found. | Wrong API Method |
| 4 | 405 | The requested format in the Accept headers is not acceptable. | Not acceptable Headers |
| 5 | 406 | The requested format in the Accept headers is not acceptable. | Not acceptable |
| 6 | 415 | The request has a media type that is not supported | Unsupported media type |
| 7 | 422 | No Weather Information Found. | No Data Found |
| 8 | 500 | Server Error. Try again later. | Cannot complete the request because the server encounters an error. |

# Notes

1. Make sure Soap services are available.
2. Call the list of cities for country before getting weather so can passed the correct data in weather api.