

Creating Well-Structured .Output for API Clients Using Postman to Get Weather Report.

Description

You are asked to create a well-structured output for their API client using Postman, which will hit that URL and get a detailed report on the weather in a quicker way.

Background of the problem statement:

To get the weather report in a well-structured output, we need to have a set of APIs of the weather application and automatable tool like Postman.

You must use the following:

- Postman
- Endpoint
URL(<https://samples.openweathermap.org/data/2.5/weather?q=London,uk&appid=b6907d289e10d714a6e88b30761fae22>)

Screenshot:-

Postman interface showing a REST client request for the OpenWeatherAPI endpoint `getcitynamebyname`. The request is a GET method with the following URL: `{{Base_URL}}?q={{City}}&appid={{global_api_key}}&units=metric`. The request parameters are:

Key	Value	Description
<input checked="" type="checkbox"/> appid	574d1252a86fe2f763ec77129f733f2e	
<input checked="" type="checkbox"/> q	{{City}}	
<input checked="" type="checkbox"/> APPID	{{global_api_key}}	
<input checked="" type="checkbox"/> units	metric	
Key	Value	Description

The response body is shown in JSON format:

```
1 {
2   "coord": {
3     "lon": 78.4744,
4     "lat": 17.3753
5   },
6   "weather": [
7     {
8       "id": 721,
9       "main": "Haze",
10      "description": "haze",
11      "icon": "500"
12    }
13  ]
14 }
```

Postman interface showing a REST client request for the OpenWeatherAPI endpoint `getcitybyid`. The request is a GET method with the following URL: `{{Base_URL}}?id=1261481&appid={{global_api_key}}`. The request parameters are:

Key	Value	Description
<input checked="" type="checkbox"/> appid	574d1252a86fe2f763ec77129f733f2e	
<input checked="" type="checkbox"/> id	1261481	
<input checked="" type="checkbox"/> appid	{{global_api_key}}	
Key	Value	Description

The response body is shown in JSON format:

```
1 {
2   "coord": {
3     "lon": 77.2311,
4     "lat": 28.6128
5   },
6   "weather": [
7     {
8       "id": 711,
9       "main": "Smoke",
10      "description": "smoke",
11      "icon": "500"
12    }
13  ]
14 }
```

Postman interface showing a REST client request for `getWeatherLatLon` in the `OpenWeatherAPI` collection. The request is a `GET` method with the URL `{{Base_URL}}?lat=28.61&lon=77.20&appid={{global_api_key}}`. The query parameters are:

Key	Value	Description
<input checked="" type="checkbox"/> appid	574d1252a86fe2f763ec77129f733f2e	
<input checked="" type="checkbox"/> lat	28.61	
<input checked="" type="checkbox"/> lon	77.20	
<input checked="" type="checkbox"/> appid	{{global_api_key}}	

The response body is a JSON object:

```
{
  "sys": {
    "type": 1,
    "id": 9165,
    "country": "IN",
    "sunrise": 1792777935,
    "sunset": 1792814211
  },
  "timezone": 19000,
  "id": 1268077,
  "name": "Parliament House, Delhi",
  "cod": 200
}
```

Status: 200 OK Time: 93 ms Size: 803 B

Postman interface showing a REST client request for `getbyLang` in the `OpenWeatherAPI` collection. The request is a `GET` method with the URL `{{Base_URL}}?id=524901&lang=fr&appid={{global_api_key}}`. The query parameters are:

Key	Value	Description
<input checked="" type="checkbox"/> appid	574d1252a86fe2f763ec77129f733f2e	
<input checked="" type="checkbox"/> id	524901	
<input checked="" type="checkbox"/> lang	fr	
<input checked="" type="checkbox"/> appid	{{global_api_key}}	

The response body is a JSON object:

```
{
  "sys": {
    "type": 2,
    "id": 2000314,
    "country": "RU",
    "sunrise": 1792792474,
    "sunset": 1792817779
  },
  "timezone": 10000,
  "id": 524901,
  "name": "Moscow",
  "cod": 200
}
```

Status: 200 OK Time: 115 ms Size: 881 B

The screenshot displays the Postman application window. On the left sidebar, the 'Environments' tab is active, showing a list of environments: 'Globals', 'Mock server', 'mockServer', 'QA_Environment' (selected), and 'WeatherApi'. The main workspace shows the configuration for the 'QA_Environment'. At the top, there's a search bar and navigation icons. Below that, the environment name 'QA_Environment' is displayed with options to Fork, Save, or Share. A table lists the environment variables:

Variable	Type	Initial value	Current value
<input checked="" type="checkbox"/> Base_URL	default	https://api.openweathermap.org/das...	https://api.openweathermap.org/data/2.5/weather
<input checked="" type="checkbox"/> apikey_env	default		
<input checked="" type="checkbox"/> BaseURLDemo	default		
<input checked="" type="checkbox"/> city	default		
<input checked="" type="checkbox"/> City	default		Hyderabad
<input checked="" type="checkbox"/> global_api_key	default	aadfe80bf99be9ac7b83b7062b2f9...	aadfe80bf99be9ac7b83b7062b2f9bf9

Below the table, there is a button to 'Add new variable'. At the bottom of the workspace, a notification box states: 'Use variables to reuse values and protect sensitive data'. It provides links to learn more about variable types and variable values.