# REST API & test using POSTMAN

REST API POSTMAN get request communitycreator

REST is an acronym for **Representational State Transfer**. It is an architectural style for distributed hypermedia systems.

An API is an **application programming interface**. It is a set of rules that allow

programs to talk to each other. The developer creates the API on the server and allows the client to talk to it. REST determines how the API will look. It is a set of rules that developers follow

when they create their API. One of these rules states that you should be able to get a piece of data (i.e., a resource) when you hit a specific URL. The key abstraction of information in REST is a **resource**. Any information that

can be named can be a resource: a document

a temporal service

an image

- a collection of other resources
- a non-virtual object (e.g., a person)
- REST uses a resource identifier to identify the particular resource involved in an

interaction between components.

Another important thing associated with REST is resource methods, which

application that has all possible CRUD (create, retrieve, update, delete) operations. HTTP methods

perform the desired transition. REST APIs enable us to develop any kind of web

### GET PUT

POST

The suitable HTTP method for the action performed by API are:

- DELETE
- GET:
- GET requests only retrieve resource representation/information they do not modify it in any way. Since GET requests do not change the state of the resource,

these are said to be safe methods.

## PUT:

resource has been created by the PUT API, the origin server MUST inform the user agent via the HTTP response code POST: POST APIs create new subordinate resources (e.g., a file is subordinate to a

PUT APIs are primarily used to update existing resources (if the resource does

not exist, then the API may or may not decide to create a new resource). If a new

### directory containing it and a row is subordinate to a database table). Strictly

collection of resources.

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Sign in to create APIs

APIs define related collections and

schema.

Sign in to create APIs

Q Filter

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{

}

The API source link is: OpenWeatherMap.

Untitled Request

Query Params

**✓** q

the user adding data to the endpoint.

"name": "morpheus", "job": "zion resident"

Collections

Sign in to create APIs

APIs define related collections and environments under a consistent

APIs

**Untitled Request** 

History

The JSON data to be PUT into the source API is:

appid

Body Cookies Headers (13) Test Results

"coord": { "lon": -0.13, "lat": 51.51 weather": [

"visibility": 10000,

DELETE: DELETE APIs are used to delete resources (identified by the Request-URI). **POSTMAN** 

talking in terms of REST, POST methods are used to create a new resource in the

#### pipeline. It started in 2012 as Abhinav Asthana's side project to simplify API workflow in testing and development.

Before working with the testing of API using POSTMAN, install the application from this link.

writing, and deleting the contents in API using client HTTP.

**Postman** is a scalable API testing tool that quickly integrates into the CI/CD

After installation, the POSTMAN application interface can be used for reading,

POSTMAN Interface

Let's do an example to illustrate the working of a GET request in POSTMAN.

Consider a weather API data and access the data from the API source.

The data returned from the OpenWeatherMap is in JSON format.

Params • Authorization Headers (6) Body Pre-request Script Tests Settings

■ My Workspace 
 Invite

Hit the Send button to get a response.

Q Learn 

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CA Status: 200 OK Time: 870 ms Size: 929 B Save Response ▼

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••• Bulk Edit

Pretty Raw Preview Visualize JSON ▼

■ My Workspace ▼ ♣ Invite

London,uk

PUT https://reqres.in/api/users?pag...● GET https://samples.openweatherm...● + •••

"id": 300,
"main": "Drizzle",
"description": "light intensity drizzle",
"icon": "09d" "base": "stations", "main": "stations",
"main": 280.32,
"pressure": 1012,
"humidity": 81,
"temp\_min": 279.15,
"temp\_max": 281.15

GET Request in POSTMAN for a arbitrary weather API Let us consider another example where we try to PUT data in some API.

PUT requests are different from Get requests as there is data manipulation with

Let us consider an API link where we can PUT the data into the API source.

After the execution of the command, the JSON data is successfully inserted into the source API.

▼ https://reqres.in/api/users/2

Params Authorization Headers (9) Body • Pre-request Script Tests

■ none ■ form-data ■ x-www-form-urlencoded ■ raw ■ binary ■ GraphQL JSON ▼

Sign in to create APIs Body Cookies (1) Headers (15) Test Results Τ "name": "morpheus",
"job": "zion resident",
"updatedAt": "2020-06-24T14:55:30.6442" П

■ My Workspace ▼ ♣ Invite

PUT https://reqres.in/api/users/2 • GET https://samples.openweatherm...• + •••

PUT request in POSTMAN



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Save ▼

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⊕ Bootcamp •• 🖺 ?

Q We can similarly delete the data from the source API using the DELETE request

in POSTMAN.

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