

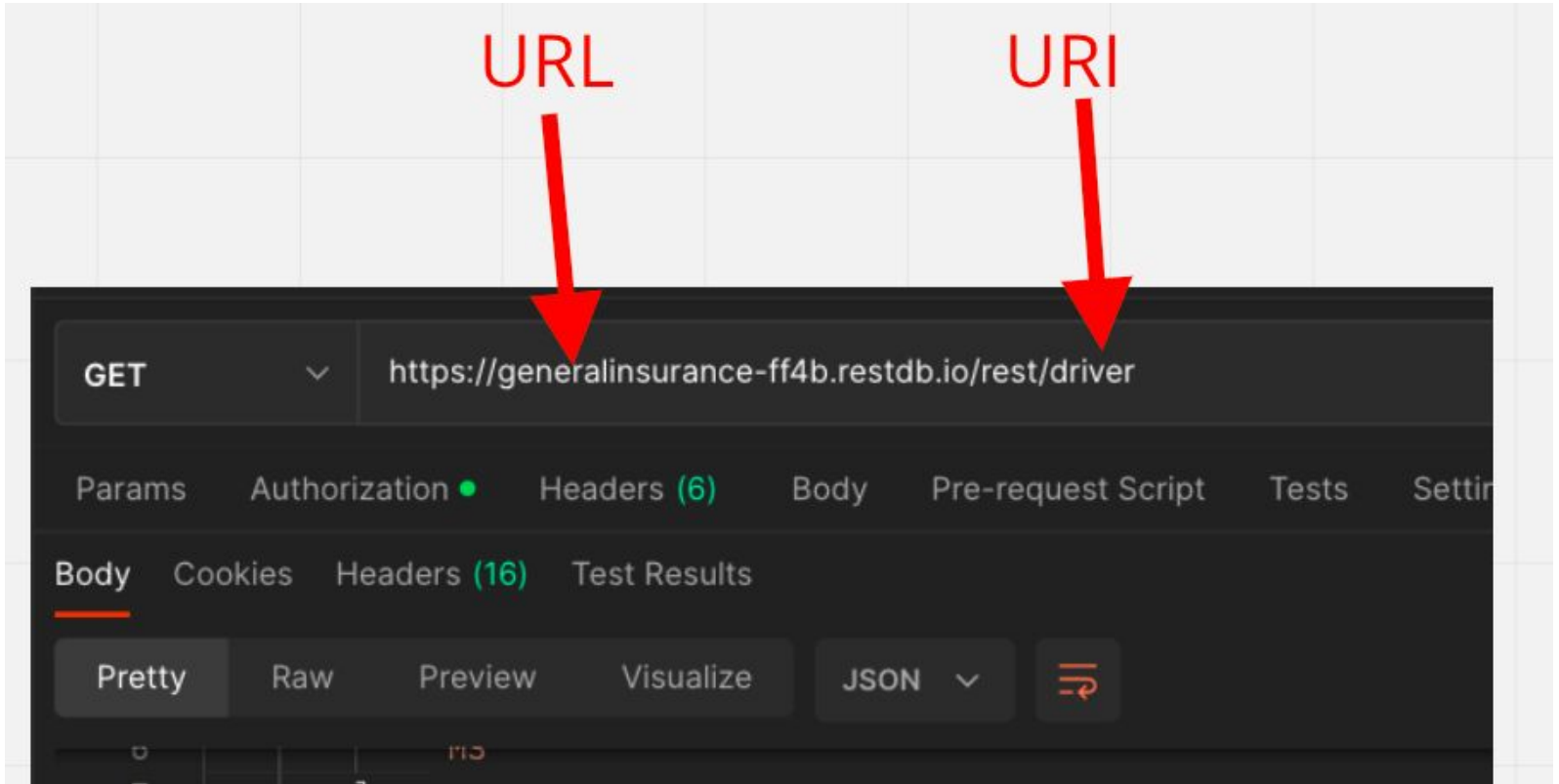
**General Auto
Insurance Company**

**API
Components**

API URL and URI

- API URL (Universal Resource **L**ocator)
 - Location or web address such as
<https://generalinsurance-ff4b.restdb.io/rest>
- API URI (Universal Resource **I**dentifier)
 - Location of a component or subset
Example: `/driver`

Driver API URL and URI Example



API Method

- The API method tells us how the API endpoint be used such as 'Create, Read, Update, Delete).
 - Or what operation API method will perform.

- Mostly commonly used API methods are
 - GET (Read Data)
 - Post (Create Data)
 - Put (Update entire record)
 - Patch (Partial Update record)
 - Delete (Delete Data)

Method

URL

POST



https://generalinsurance-ff4b.restdb.io/rest/driver

Params

Authorization ●

Headers (8)

Body ●

Pre-request Script

Tests

Settings

none

form-data

x-www-form-urlencoded

raw

binary

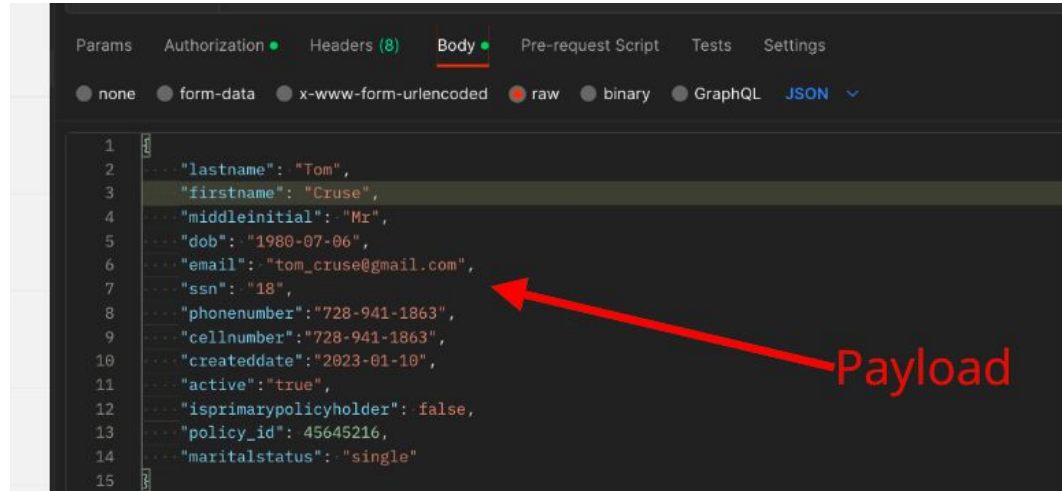
GraphQL

JSON



API Body/Payload

Some APIs request require body or payload. It's same as when you insert data into a table, you would have to provide 'data' as part of the request.



The screenshot shows an API client interface with the 'Body' tab selected. The payload is a JSON object representing a user profile. A red arrow points to the JSON text, which is labeled 'Payload'.

```
1  [{"  
2    "lastname": "Tom",  
3    "firstname": "Cruse",  
4    "middleinitial": "Mr",  
5    "dob": "1980-07-06",  
6    "email": "tom_cruse@gmail.com",  
7    "ssn": "18",  
8    "phonenumber": "728-941-1863",  
9    "cellnumber": "728-941-1863",  
10   "createddate": "2023-01-10",  
11   "active": "true",  
12   "isprimarypolicyholder": false,  
13   "policy_id": 45645216,  
14   "maritalstatus": "single"  
15 }]
```

API Parameters

Some APIs support parameters. These parameters are used how the data to be retrieved. The parameters can also be used to retrieve data based on certain conditions. Such as in below screenshot we are saying only return vehicles with this Make “Toyota” and Trim”Premium”.

GET `https://generalinsurance-ff4b.restdb.io/rest/vehicle?q={"Make":"Toyota","Trim":"Premium"}`

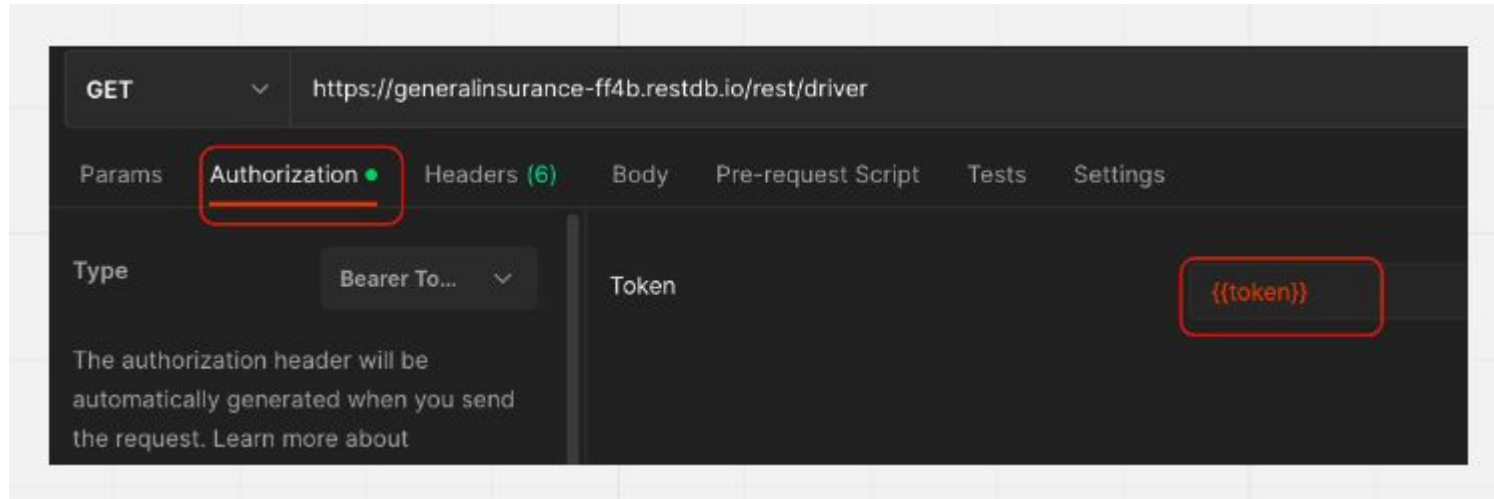
Params ● Authorization ● Headers (6) Body Pre-request Script Tests Settings

Query Params

	KEY	VALUE
<input checked="" type="checkbox"/>	q	{"Make":"Toyota","Trim":"Premium"}
<input type="checkbox"/>		,"Trim":"LTZ"
	Key	Value

API Authorization

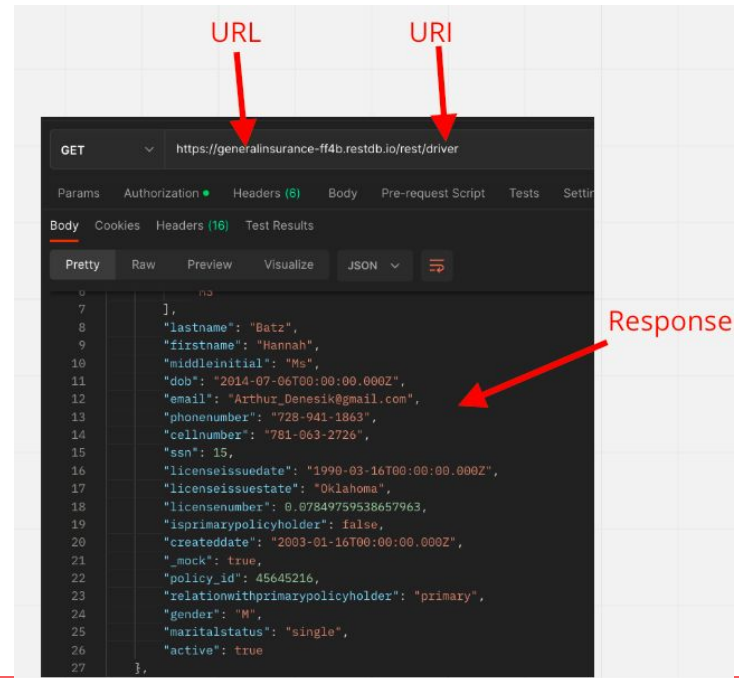
API Authorization is manage API access. There are various ways to achieve such as using only validated token, user credentials etc. There are so many other auth options that can be configured. See below a token based authentication setup.



API RESPONSE

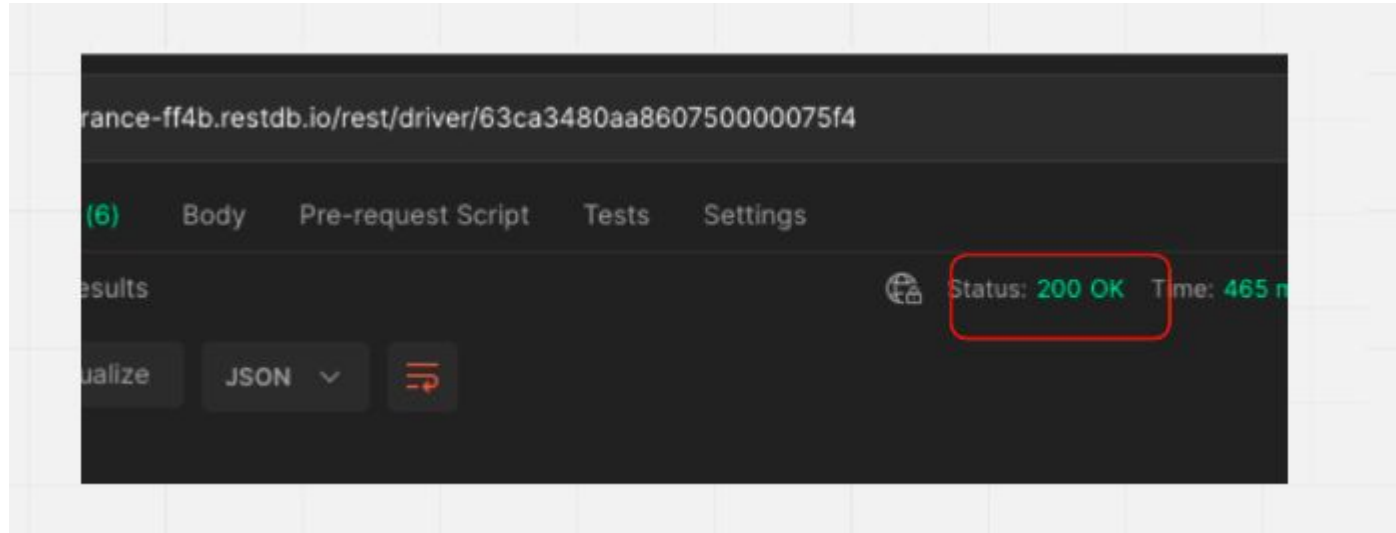
When we send an API request, API responds with a response which we call API response. It would be an error message, valid data, success message based on the request and executed code. See below

a response example



API status codes

API can response with many different status codes based on the response and error message such as 200, 201, 401, 500 etc. See below a response of a successful API request.



Some API status codes

200 – OK

201 – Created

202 – Accepted

400 – Bad request

401 – Unauthorized

403 – Forbidden

404 – Not found: this is a famous one

405 – Method not allowed

500 – Internal Server Error

502 – Bad Gateway

503 – Service Unavailable