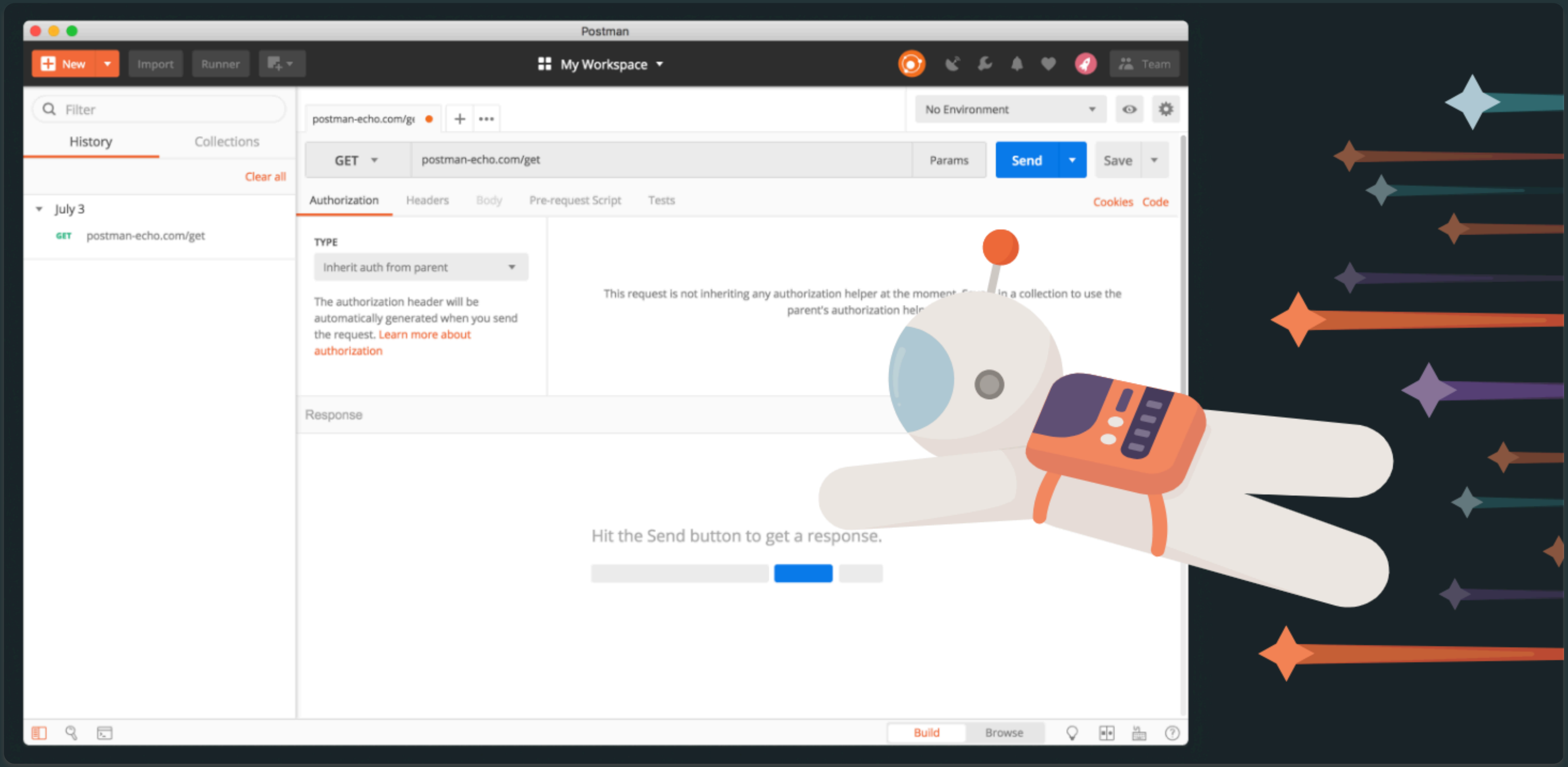
POSTMAN ON STEROIDS

SARA TORNINCASA @ CODERMINE

GITHUB.COM/SARASEWARD/POSTMAN-ON-STEROIDS



GET postman-echo.com/get

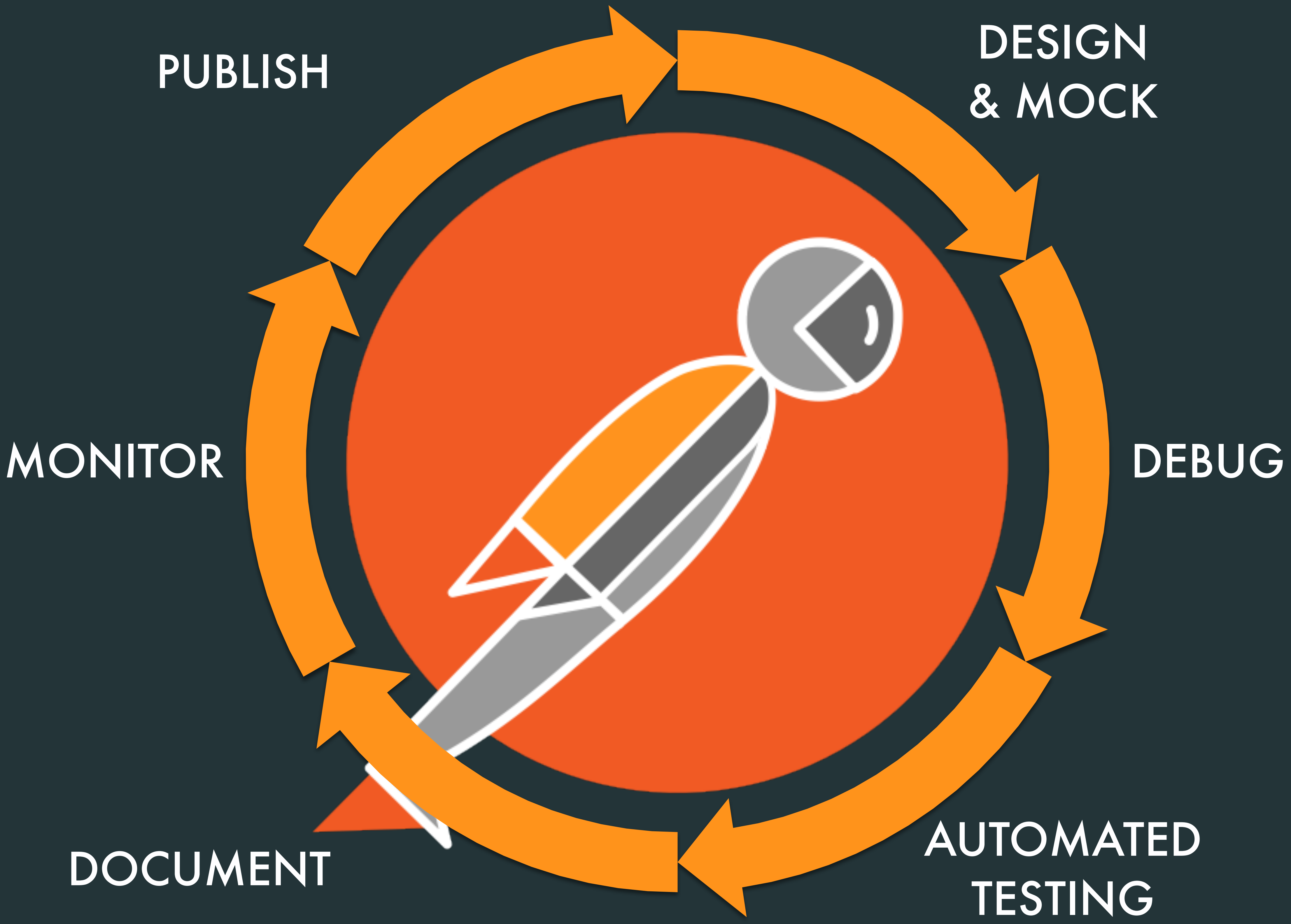
TYPE
Inherit auth from parent

The authorization header will be automatically generated when you send the request. Learn more about authorization

This request is not inheriting any authorization helper at the moment. S… in a collection to use the parent's authorization help…

Hit the Send button to get a response.

HTTP REQUESTS WITH A FRIENDLY UI



PUBLISH

DESIGN & MOCK

DEBUG

AUTOMATED TESTING

DOCUMENT

MONITOR

POSTMAN FUNDAMENTALS

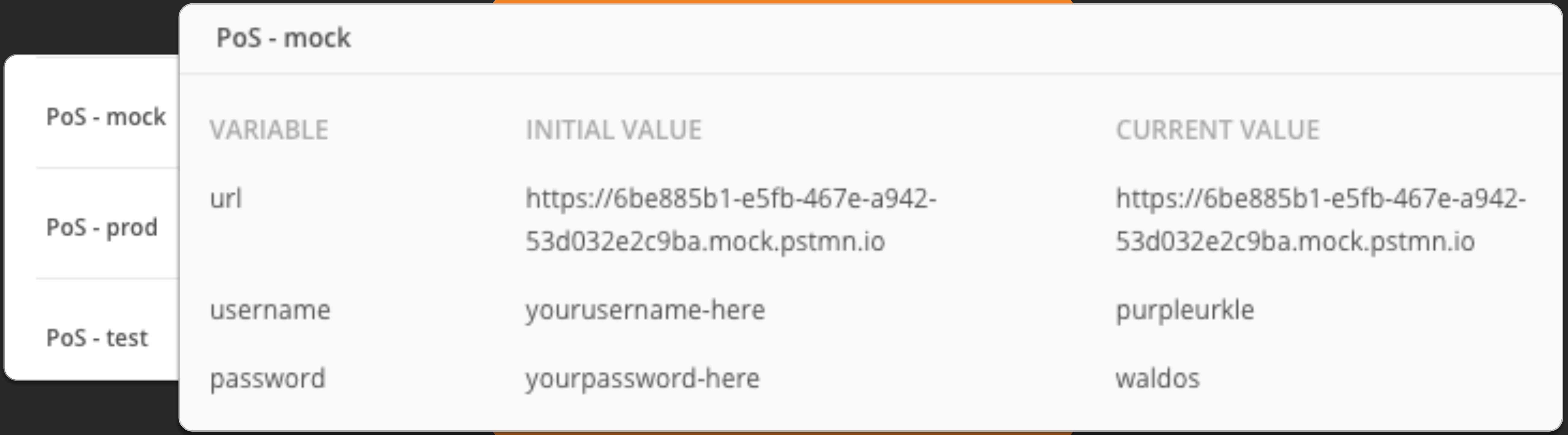
ENVIRONMENTS

VARIABLES

COLLECTIONS

WORKSPACES

ENVIRONMENTS



PoS - mock

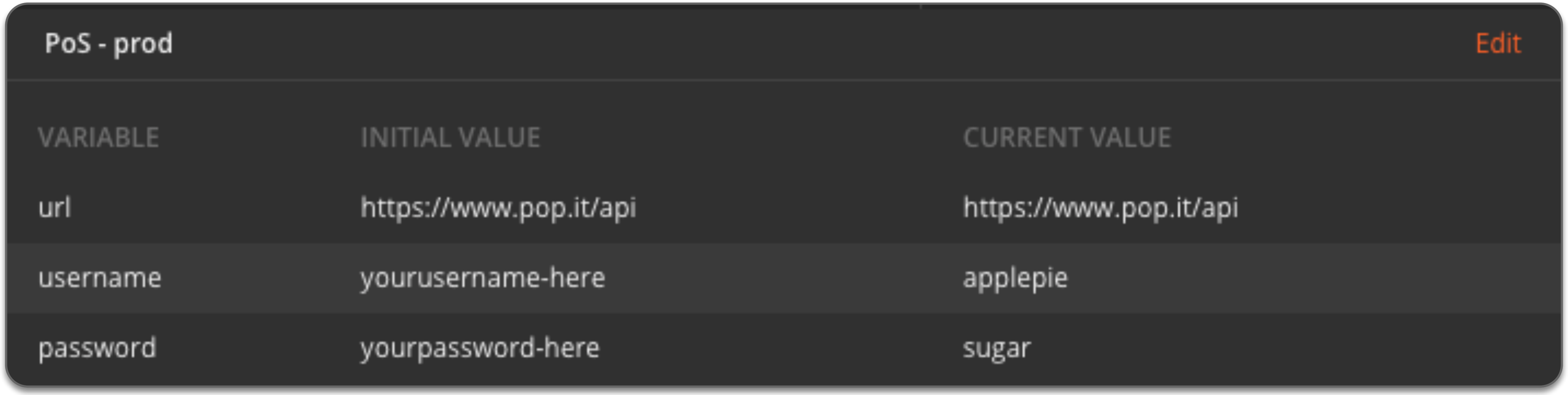
PoS - prod

PoS - test

PoS - mock

VARIABLE	INITIAL VALUE	CURRENT VALUE
url	https://6be885b1-e5fb-467e-a942-53d032e2c9ba.mock.pstmn.io	https://6be885b1-e5fb-467e-a942-53d032e2c9ba.mock.pstmn.io
username	yourusername-here	purpleurkle
password	yourpassword-here	waldos

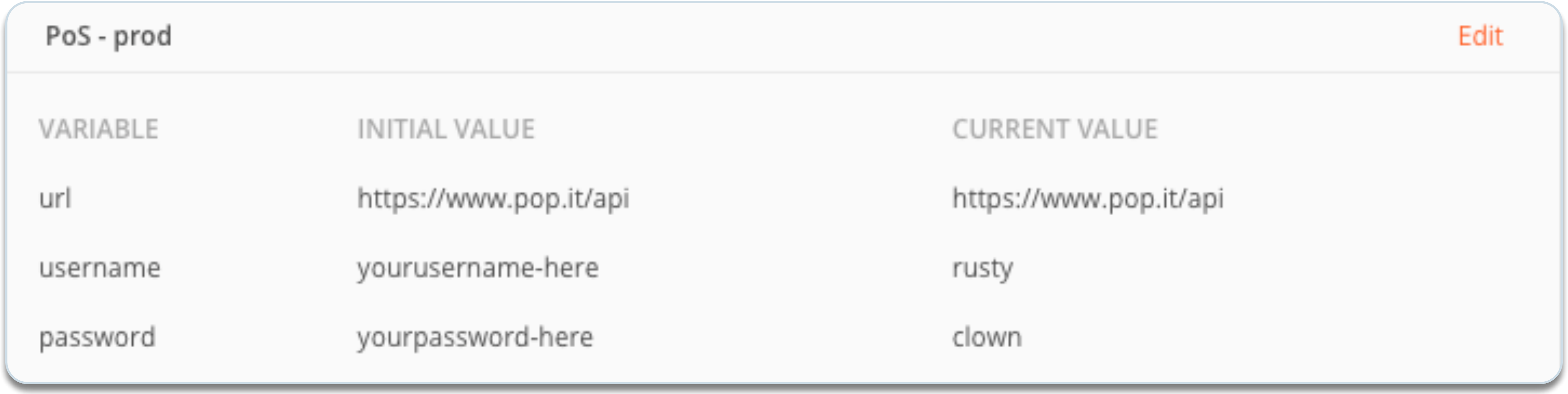
SESSION VALUES: HANDLE SENSITIVE VALUES



PoS - prod

Edit

VARIABLE	INITIAL VALUE	CURRENT VALUE
url	https://www.pop.it/api	https://www.pop.it/api
username	yourusername-here	applepie
password	yourpassword-here	sugar

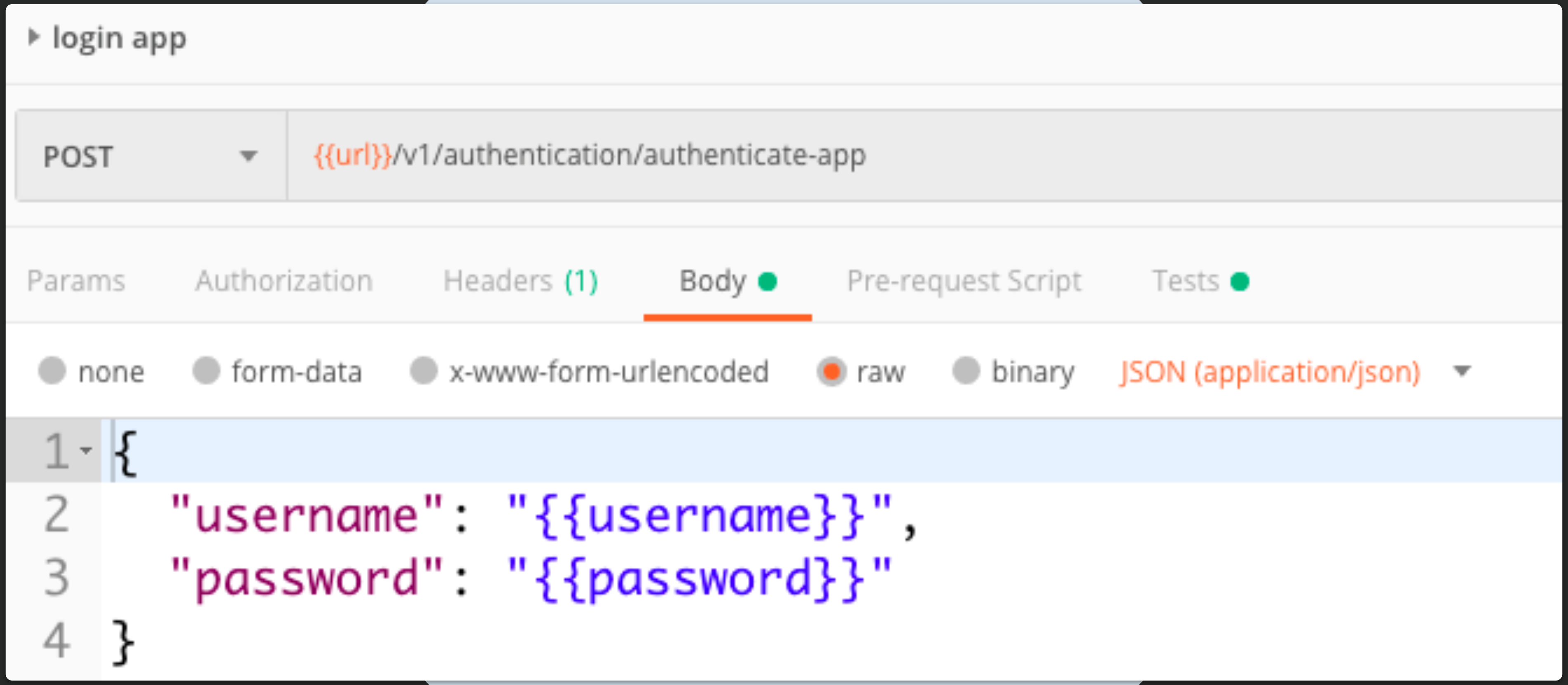


PoS - prod

Edit

VARIABLE	INITIAL VALUE	CURRENT VALUE
url	https://www.pop.it/api	https://www.pop.it/api
username	yourusername-here	rusty
password	yourpassword-here	clown

VARIABLES

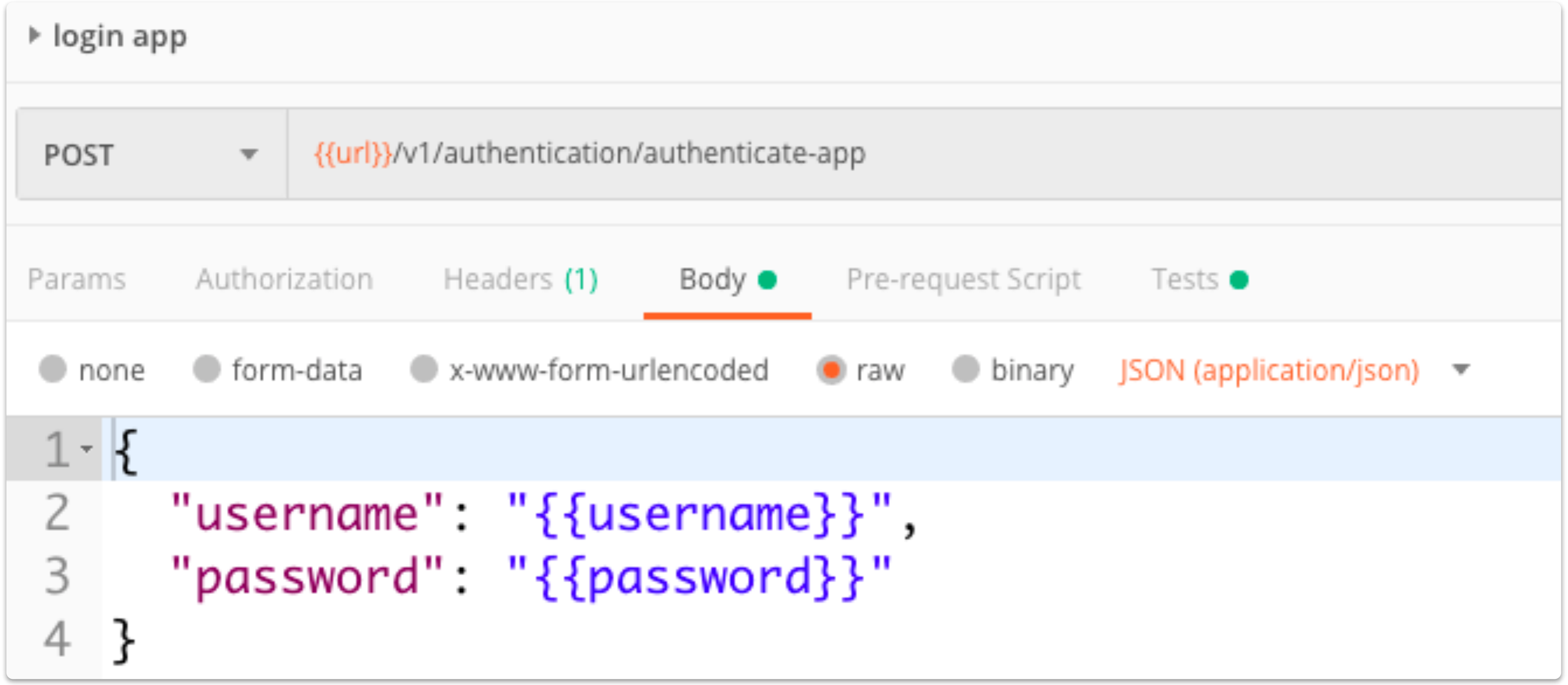


POST {{url}}/v1/authentication/authenticate-app

○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary JSON (application/json)

```
{
  "username": "{{username}}",
  "password": "{{password}}"
}
```

VARIABLES



POST {{url}}/v1/authentication/authenticate-app

raw JSON (application/json)

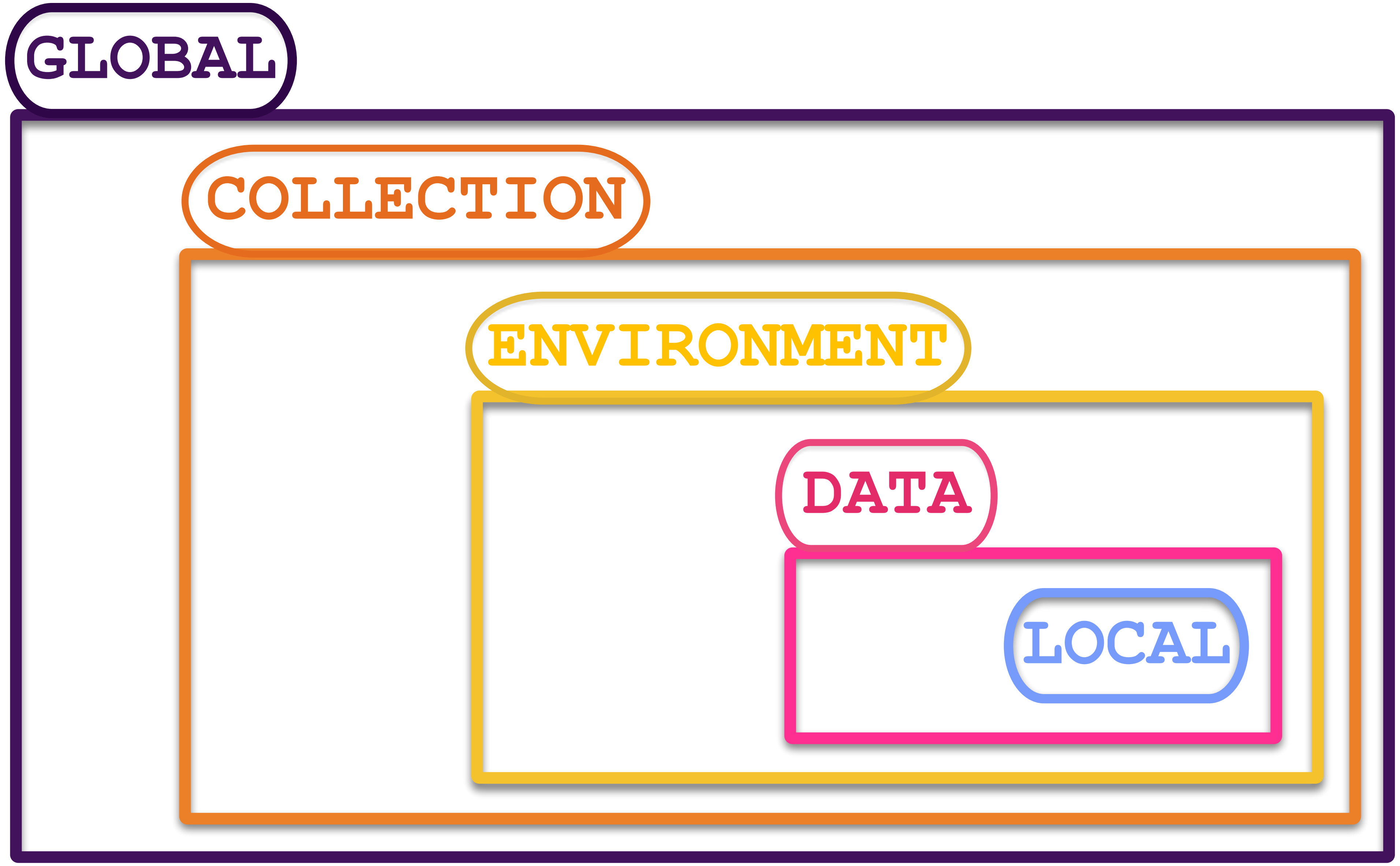
```
{
   "username": "{{username}}",
   "password": "{{password}}"
}
```

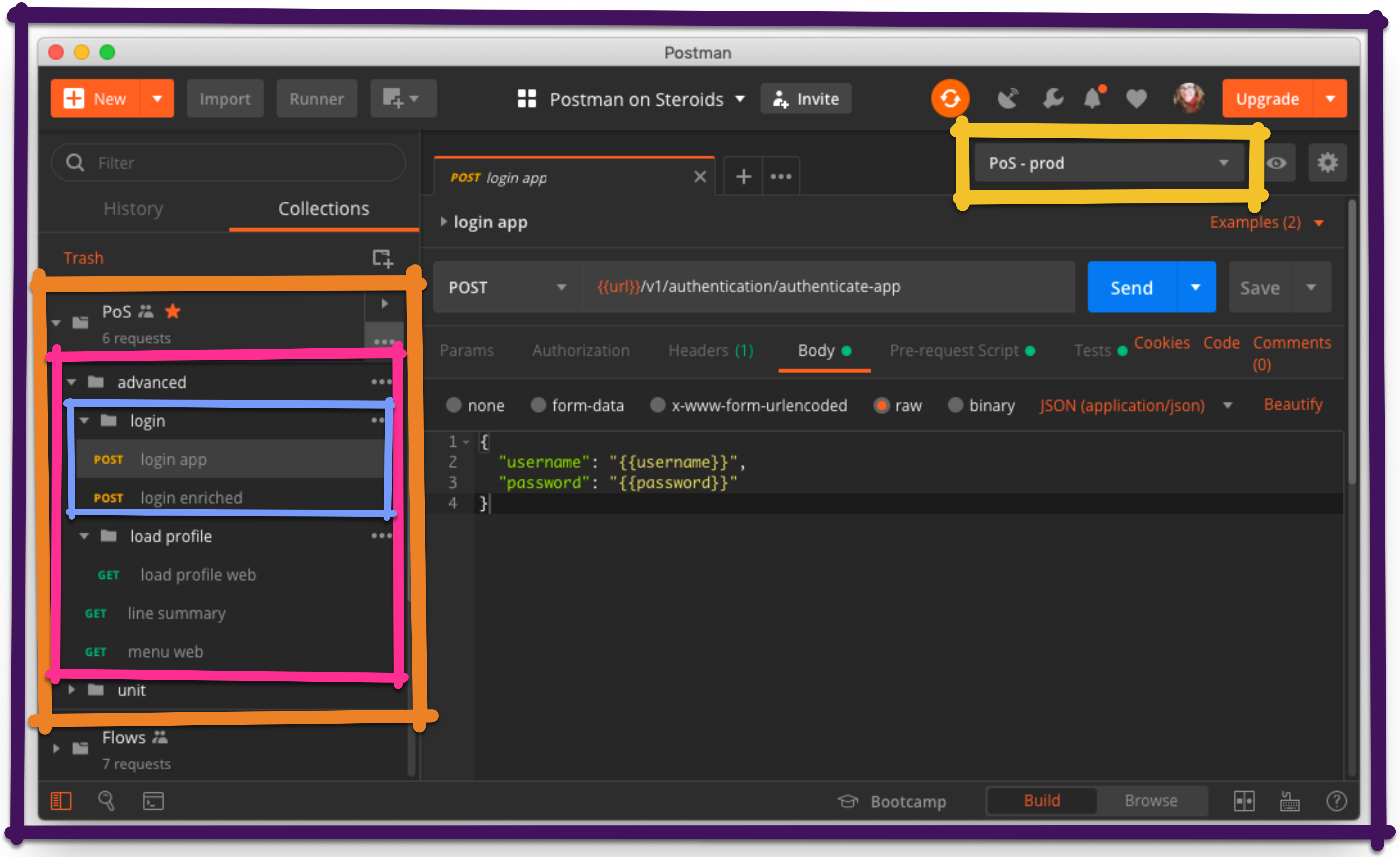
DYNAMIC VARIABLES IN THE REQUEST URL / HEADERS / BODY:

`{{$guid}}` | `{{$timestamp}}` | `{{$randomInt}}`

READ MORE

VARIABLE SCOPES

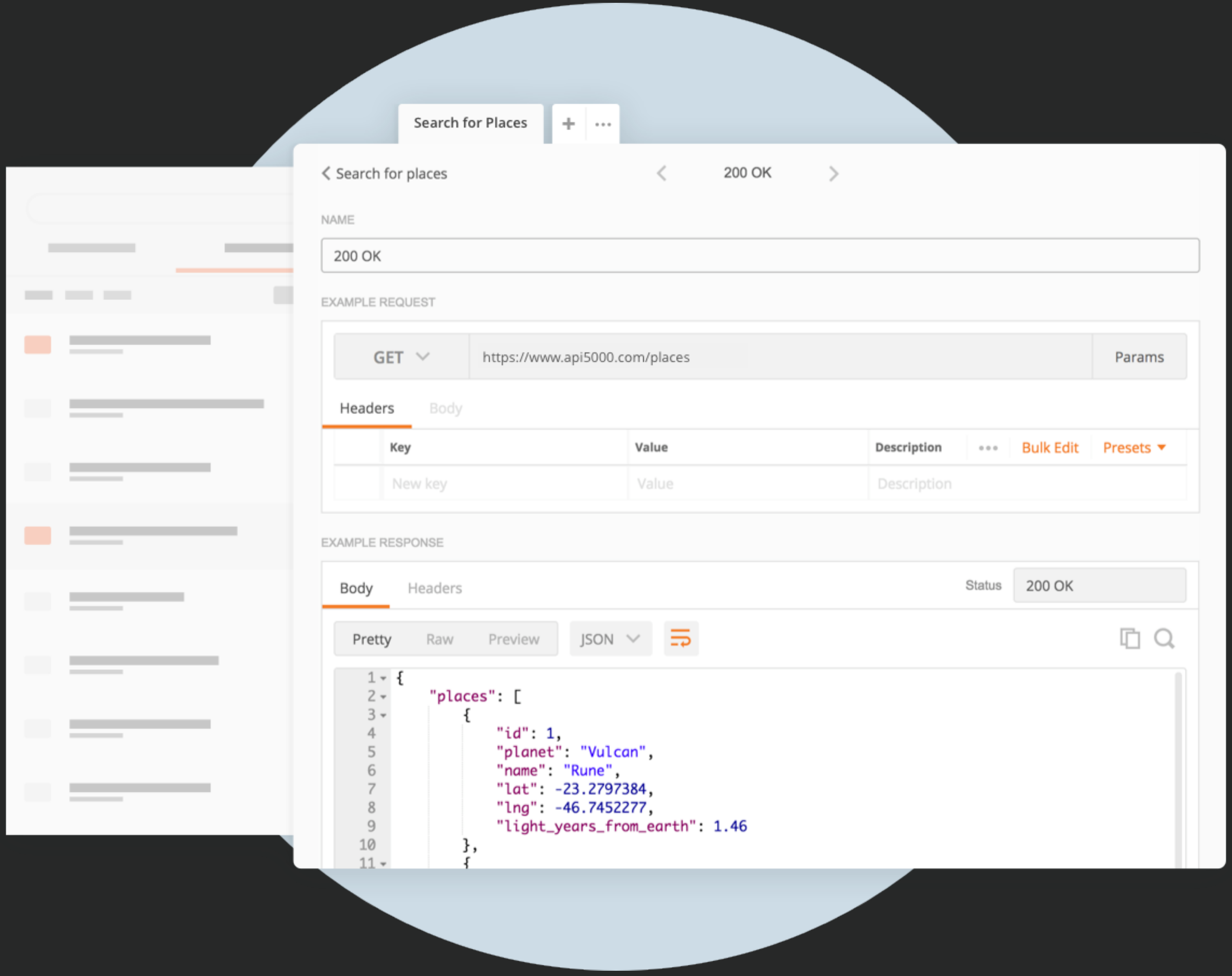




```
POST    {{url}}/v1/authentication/authenticate-app
```

```
{
  "username": "{{username}}",
  "password": "{{password}}"
}
```

COLLECTIONS & EXAMPLES



< Search for places

200 OK

NAME

200 OK

EXAMPLE REQUEST

GET https://www.api5000.com/places

Key	Value	Description
New key	Value	Description

EXAMPLE RESPONSE

Status: 200 OK

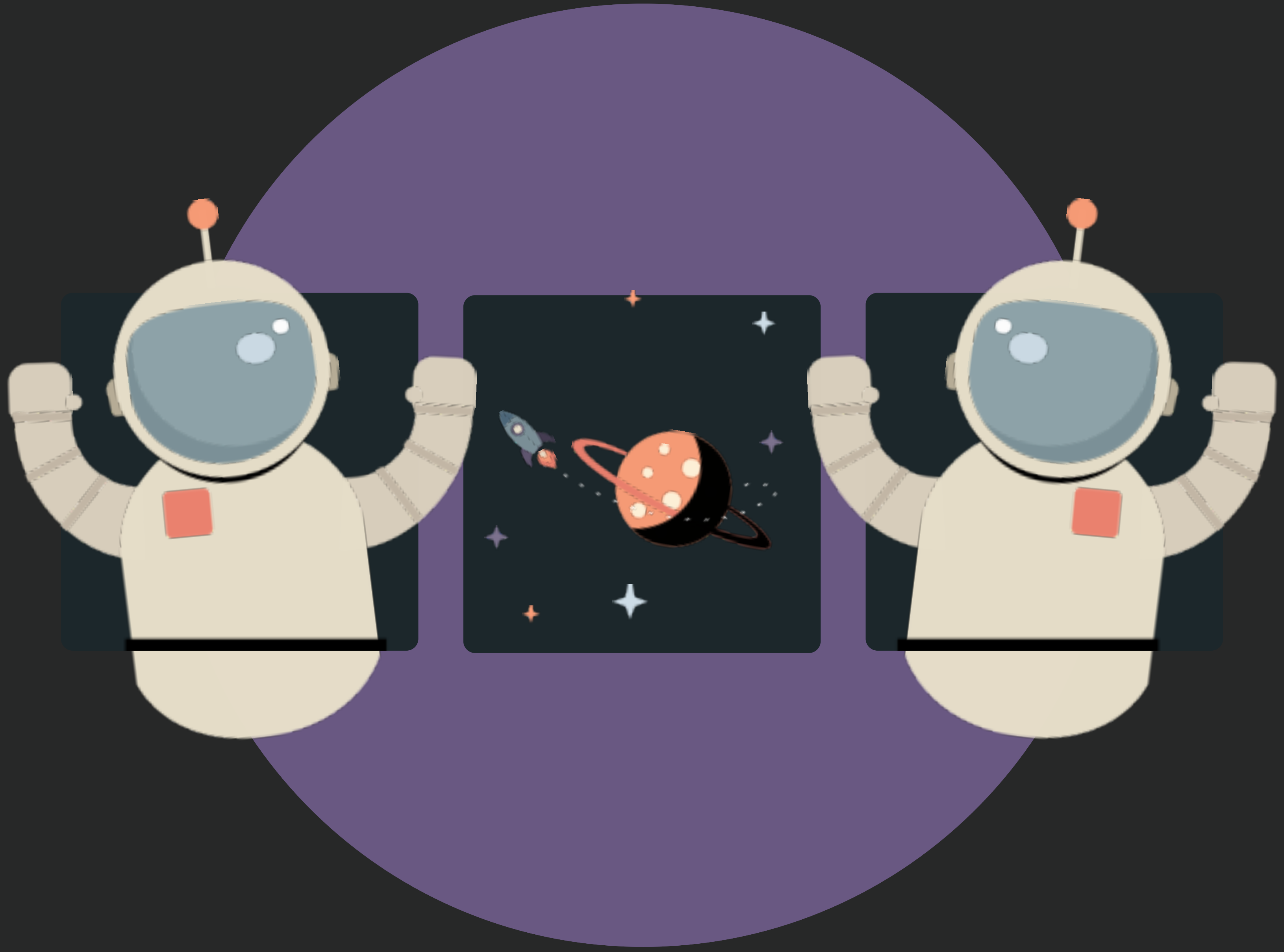
```
{
    "places": [
        {
            "id": 1,
            "planet": "Vulcan",
            "name": "Rune",
            "lat": -23.2797384,
            "lng": -46.7452277,
            "light_years_from_earth": 1.46
        },
        {
```

COLLECTIONS

COLLECTIONS ARE **GROUPS OF REQUESTS THAT CAN BE RUN TOGETHER AS A SERIES OF REQUESTS, AGAINST A CORRESPONDING ENVIRONMENT.**

- **AUTOMATE API TESTING**
- **MAKE BETTER USE OF SCRIPTS: PASS DATA BETWEEN REQUESTS...**
- **...OR BUILD WORKFLOWS THAT MIRROR YOUR APIS' USE CASE.**

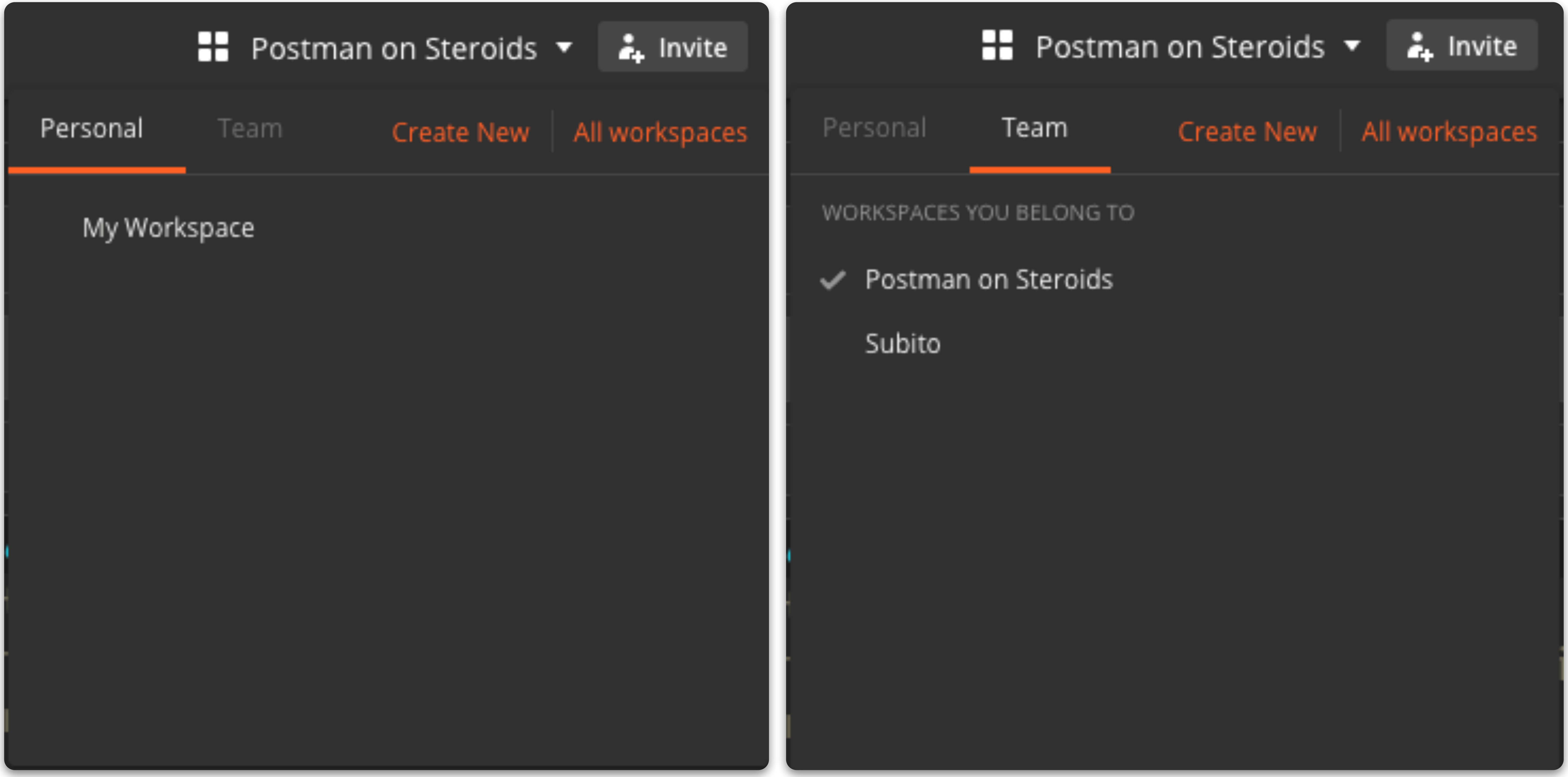
WORKSPACES



WORKSPACES

A WORKSPACE IS **A VIEW OF ALL THE POSTMAN THINGS YOU'VE COME TO USE: COLLECTIONS, ENVIRONMENTS, …**

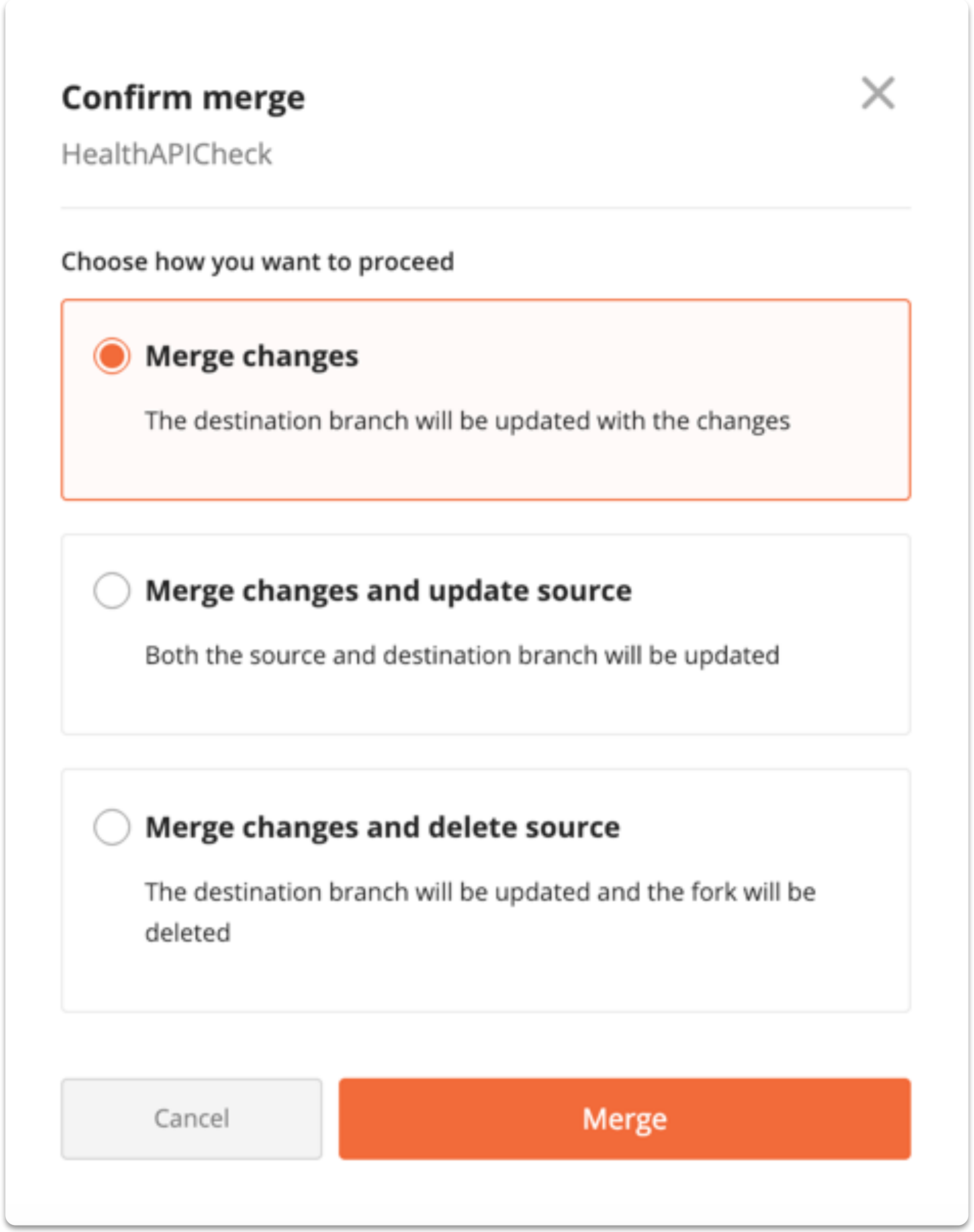
- INDIVIDUALS **CAN ORGANIZE THEIR WORK IN PERSONAL WORKSPACES**
- TEAMS **CAN COLLABORATE IN TEAM WORKSPACES.**
- **YOU CAN SHARE ELEMENTS IN MULTIPLE WORKSPACES AT THE SAME TIME.**


Postman on Steroids
Invite
Personal
Team
Create New
All workspaces
My Workspace
Postman on Steroids
Invite
Personal
Team
Create New
All workspaces
WORKSPACES YOU BELONG TO
✓ Postman on Steroids
Subito

ROLES

COLLECTIONS	TEAMS	WORKSPACES
Collection Editor	Team Admin	Workspace Admin
Collection Viewer	Team Billing	Workspace Collaborator
	Team Developer	

ROLES EXTENDED | ALL ROLES



Confirm merge

HealthAPICheck

Choose how you want to proceed

● **Merge changes**

The destination branch will be updated with the changes

○ **Merge changes and update source**

Both the source and destination branch will be updated

○ **Merge changes and delete source**

The destination branch will be updated and the fork will be deleted

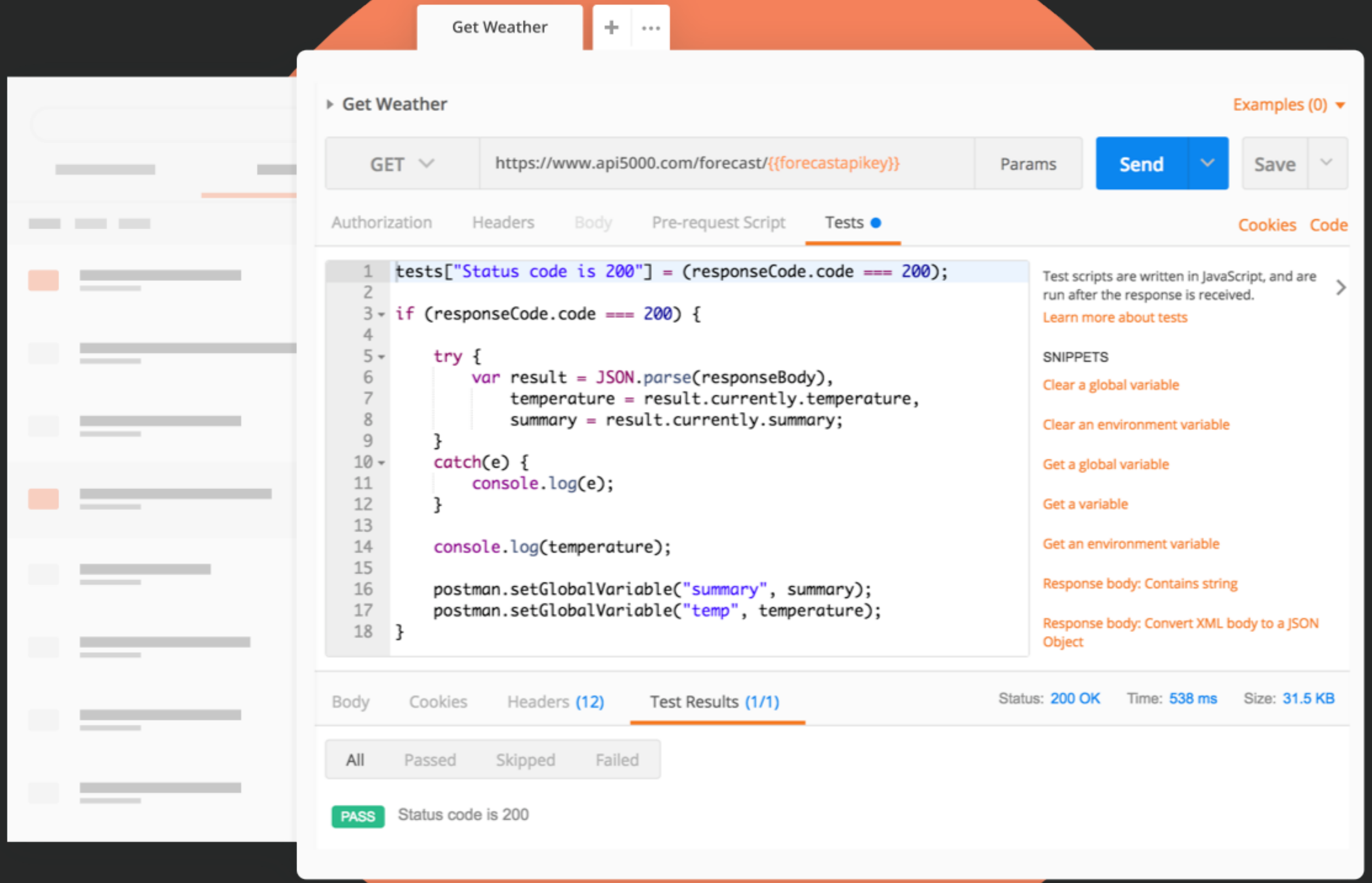
VERSION CONTROL

- FORK A COLLECTION
- MERGE BETWEEN FORKS
- PULL BETWEEN FORKS

READ MORE

SCRIPTS
TESTING

PRE REQUEST SCRIPTS & TESTS



Get Weather

GET https://www.api5000.com/forecast/{{forecastapikey}}

```
tests["Status code is 200"] = (responseCode.code === 200);

if (responseCode.code === 200) {

    try {
        var result = JSON.parse(responseBody),
            temperature = result.currently.temperature,
            summary = result.currently.summary;
    }
    catch(e) {
        console.log(e);
    }

    console.log(temperature);

    postman.setGlobalVariable("summary", summary);
    postman.setGlobalVariable("temp", temperature);
}
```

Test scripts are written in JavaScript, and are run after the response is received.
Learn more about tests

SNIPPETS

- Clear a global variable
- Clear an environment variable
- Get a global variable
- Get a variable
- Get an environment variable
- Response body: Contains string
- Response body: Convert XML body to a JSON Object

Status: 200 OK Time: 538 ms Size: 31.5 KB

PASS Status code is 200

BEFORE:

PRE REQUEST SCRIPTS

ARE SNIPPETS OF JAVASCRIPT CODE EXECUTED BEFORE THE REQUEST IS SENT.

AFTER:

TESTS

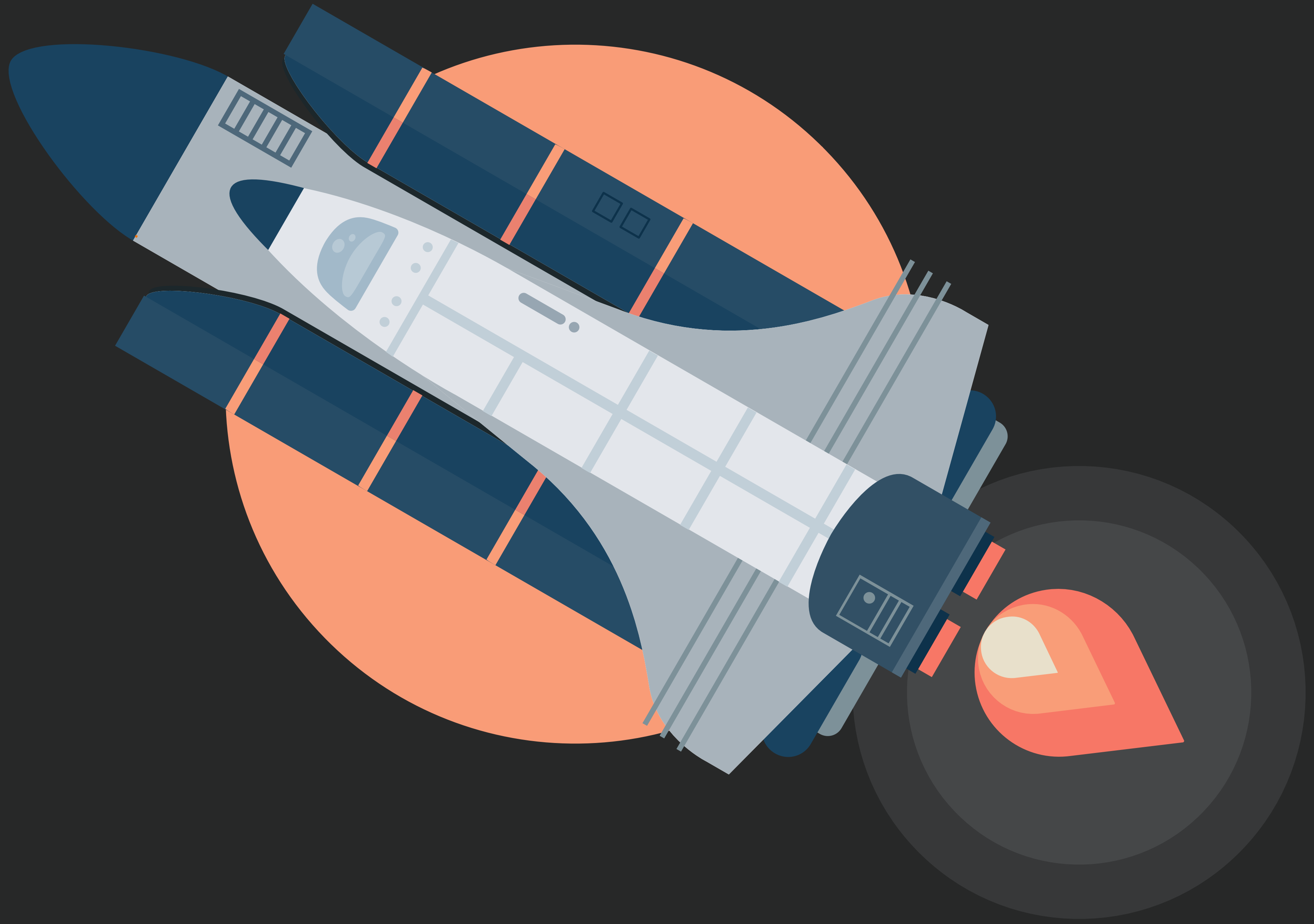
ARE SNIPPETS OF JAVASCRIPT CODE EXECUTED AFTER THE REQUEST IS SENT.

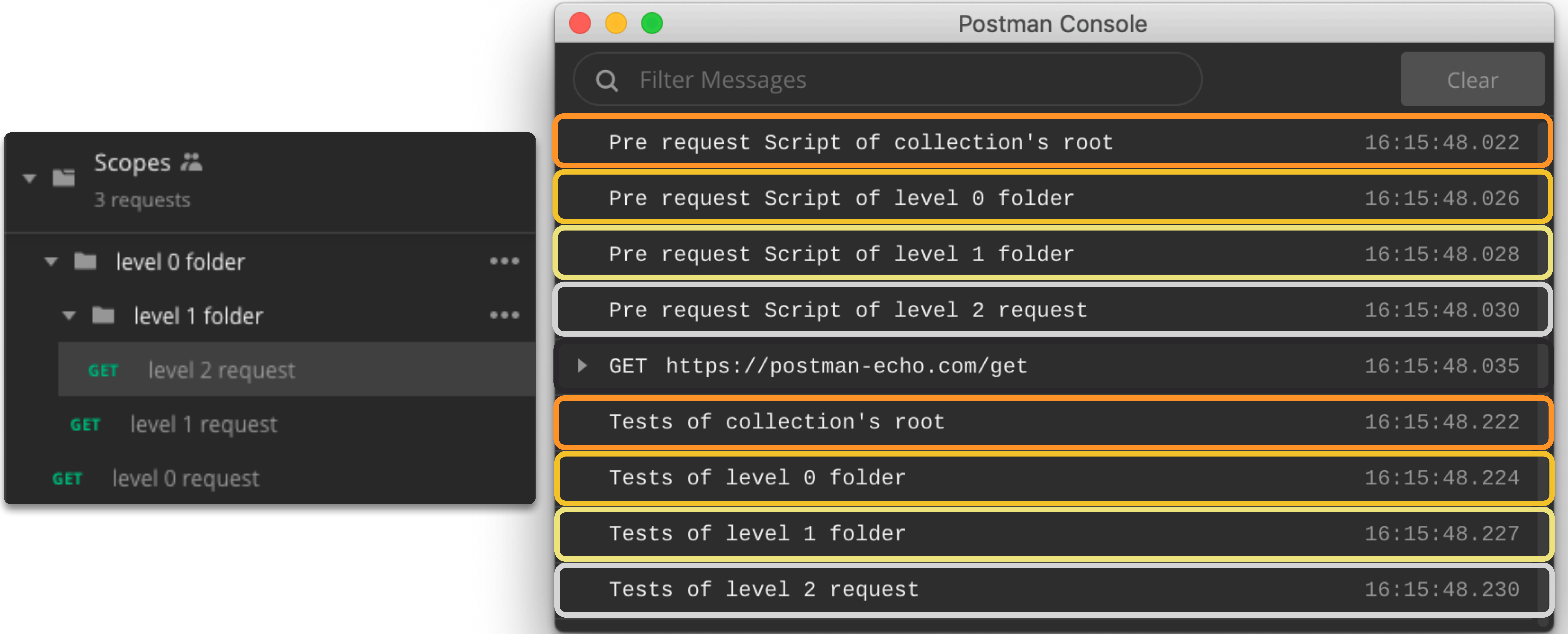
TEST EXAMPLES

```
pm.test("Response is ok", function () {
    //ok, success, redirection, clientError, serverError
    pm.response.to.be.ok;
});

pm.test("Response can be processed by clients", function () {
    pm.response.to.be.json;
    pm.response.to.not.have.jsonBody("error");
});
```

```
pm.test('There is at least one contract', function(){
    var data = pm.response.json();
    pm.expect(data.contracts.length).to.be.above(0);
})

pm.test('All contracts have one line', function(){
    var data = pm.response.json();
    for (i = 0; i < data.contracts.length; i++){
        contract =  data.contracts[i];
        pm.expect(contract.lines.length).to.eql(1);
    }
})
```

SCRIPT SCOPES



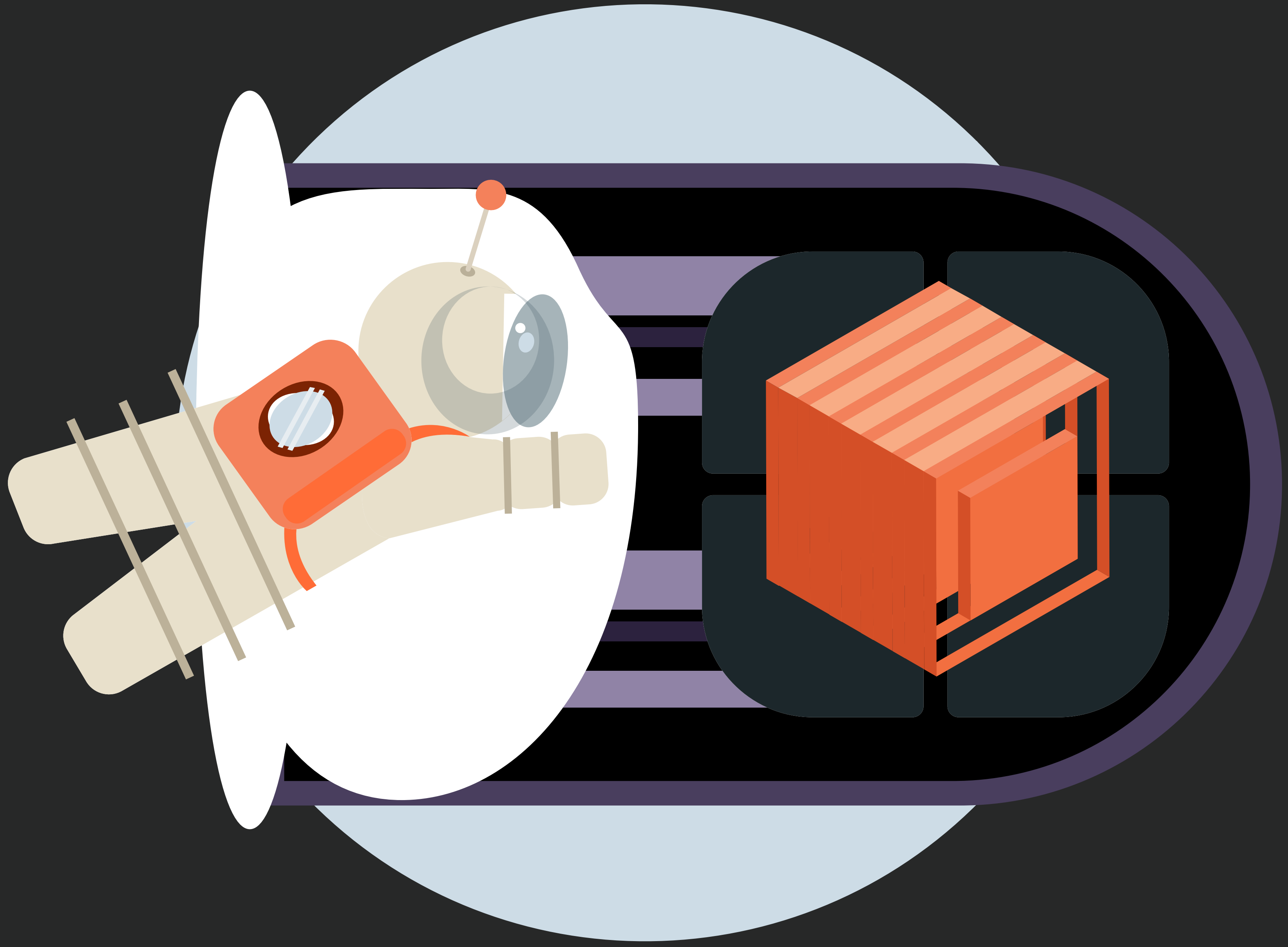


```
Pre request Script of collection's root                16:15:48.022
Pre request Script of level 0 folder                   16:15:48.026
Pre request Script of level 1 folder                   16:15:48.028
Pre request Script of level 2 request                  16:15:48.030
GET  https://postman-echo.com/get                      16:15:48.035
Tests of collection's root                             16:15:48.222
Tests of level 0 folder                                16:15:48.224
Tests of level 1 folder                                16:15:48.227
Tests of level 2 request                               16:15:48.230
```

I LOVE INSERTING DATA MANUALLY

- NOBODY, EVER

PASS DATA BETWEEN REQUESTS



```
pm.test("Response contains customerId and userId", function () {
    pm.response.to.have.jsonBody("customerId");
    pm.response.to.have.jsonBody("userId");
});

//Set global variable
var data = pm.response.json();
pm.environment.set("customerId", data.customerId);
console.log("Env customerId id is " + pm.environment.get("customerId"));

pm.environment.set("userId", data.userId);
console.log("Env userId id is " + pm.environment.get("userId"));
```

PRE REQUEST SCRIPT…

```
schema = {
    "properties": {
        "customerId": {
            "type": "string"
        },
        "jsessionId": {
            "type": "string"
        },
        "userId": {
            "type": "integer"
        }
    },
    "required": [
        "customerId",
        "userId",
    ]
};
```

...TEST

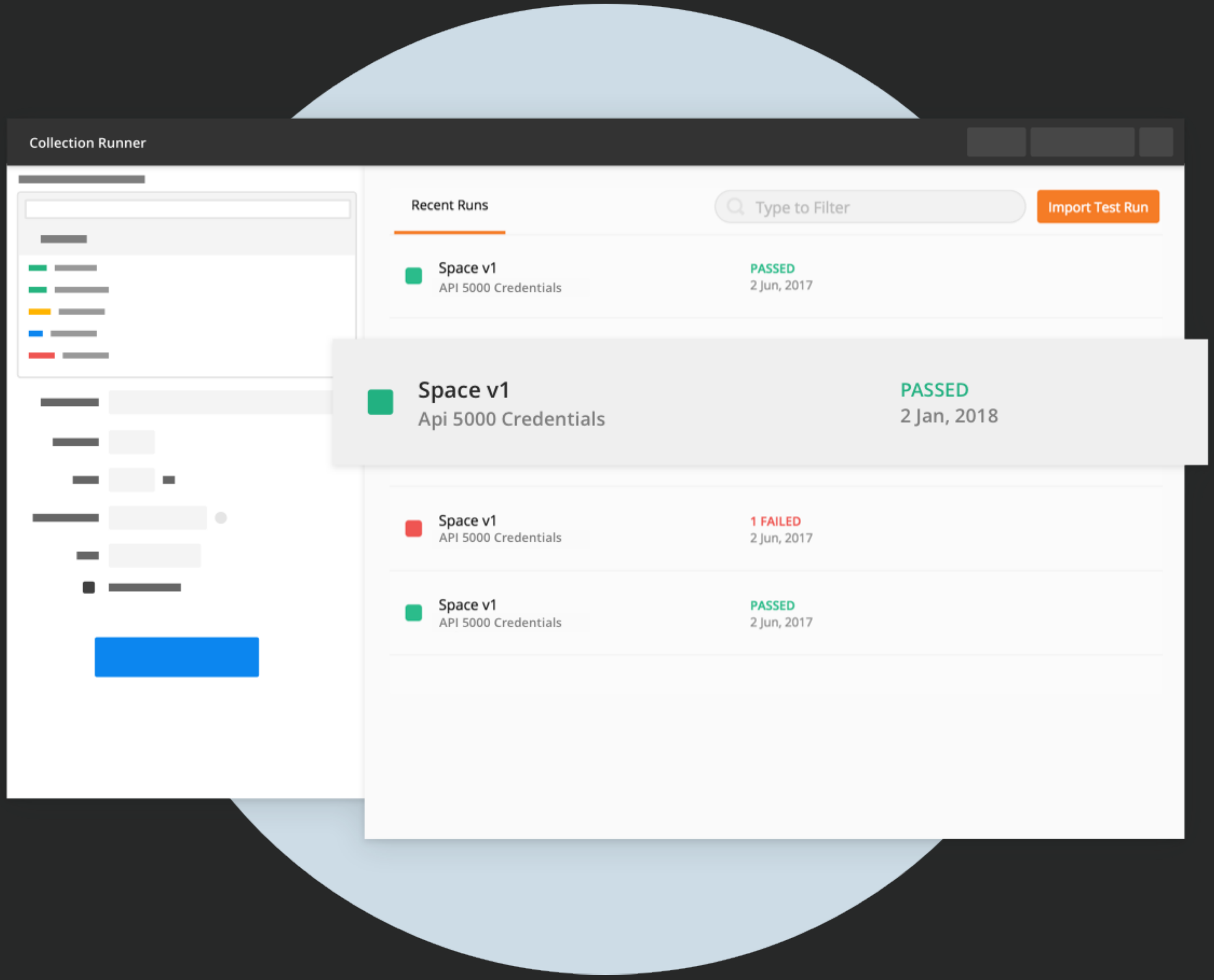
```
// Request MUST define a JSON schema under the name "schema"
// in its pre-requests scripts
pm.test('Schema is valid', function() {
    var result=tv4.validateResult(pm.response.json(), schema);
    if(!result.valid){
        console.log(result);
    }
    pm.expect(result.valid).to.be.true;
});
```

COLLECTION RUNNERS

MONITORS

NEWMAN

COLLECTION RUNNERS



Collection Runner

🟩	Space v1 API 5000 Credentials	PASSED	2 Jun, 2017
🟩	Space v1 Api 5000 Credentials	PASSED	2 Jan, 2018
🟥	Space v1 API 5000 Credentials	1 FAILED	2 Jun, 2017
🟩	Space v1 API 5000 Credentials	PASSED	2 Jun, 2017

COLLECTION RUNNERS

COLLECTION RUNNERS **SEND ALL REQUESTS IN ONE COLLECTION ONE AFTER ANOTHER, WITH A SPECIFIC:**

- **ENVIRONMENT**
- **NUMBER OF ITERATIONS**
- **DELAY BETWEEN REQUESTS**
- **LOG LEVEL**
- **DATA FILE**

READ DATA FROM FILES

OVERRIDE CURRENT VARIABLES WITH VALUES DEFINED IN A .JSON OR .CSV FILE.

```
[
    {
        "username":"purpleurkle",
        "password":"waldos",
        "lineId": "1234567890",
        "contractId": "1234567890cc",
        "useDataFile": true
    }
]
```

READ MORE

WORKFLOWS

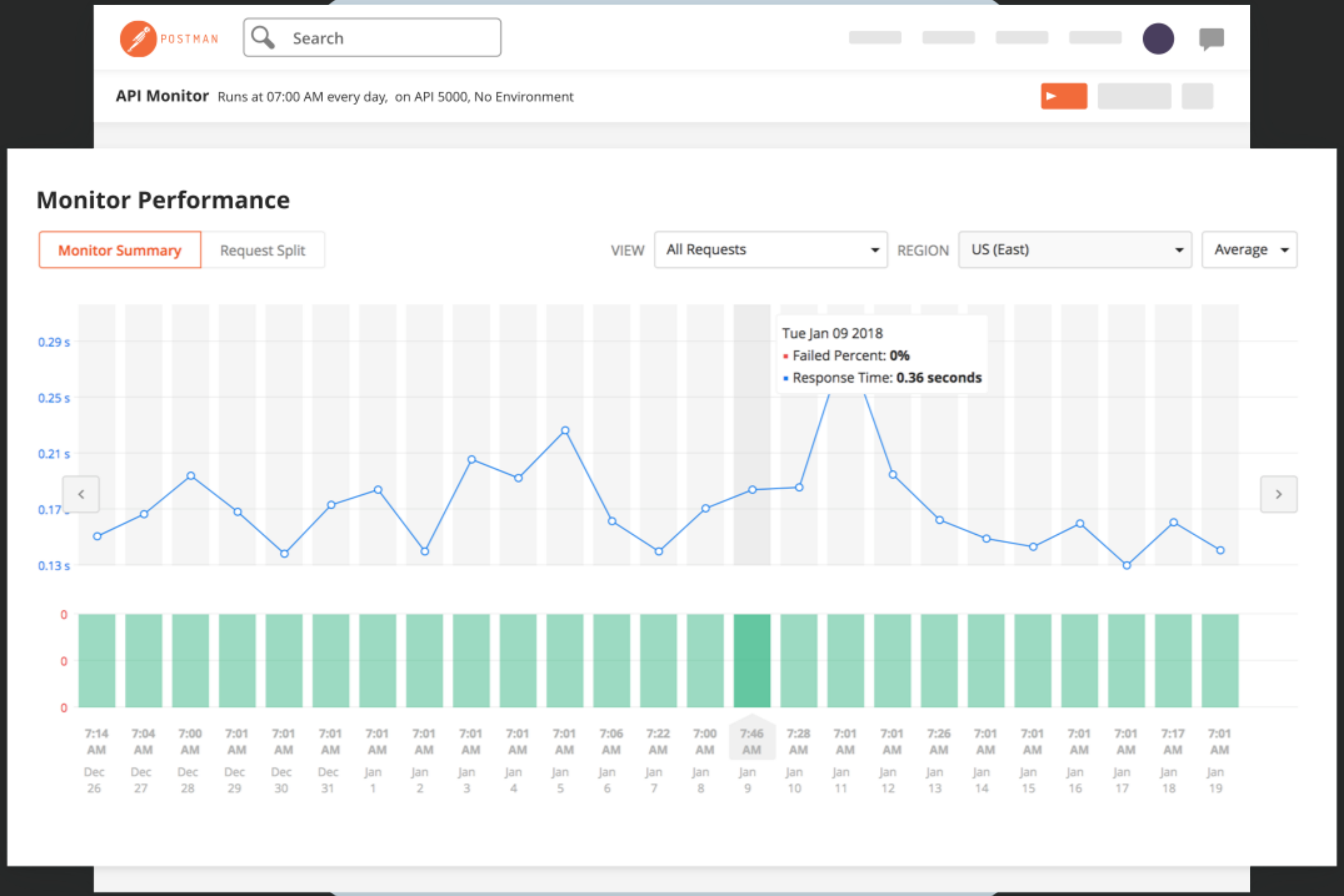
WORKFLOWS

BUILD AND TEST WORKFLOWS THAT MIRROR YOUR ACTUAL USE CASE OF APIS.

READ MORE

```
//Set next request
postman.setNextRequest("menu web (flows)")

//End collection run
postman.setNextRequest(null)
```

MONITORS



API Monitor Runs at 07:00 AM every day, on API 5000, No Environment

Monitor Performance

VIEW All Requests

REGION US (East)

Average

Tue Jan 09 2018
- Failed Percent: **0%**
- Response Time: **0.36 seconds**

MONITORS

MONITORS **RUN A COLLECTION PERIODICALLY, WITH A SPECIFIC:**

- **ENVIRONMENT**
- **RUN FREQUENCY**
- **REGION**
- **REQUEST TIMEOUT/DELAY**
- **EMAIL NOTIFICATIONS ON FAILURE**

CD/CI INTEGRATION WITH NEWMAN

NEWMAN

NEWMAN IS A COMMAND LINE COLLECTION RUNNER FOR POSTMAN.

YOU CAN CONFIGURE CONTINUOUS INTEGRATION TOOLS TO RESPOND TO NEWMAN'S EXIT STATUS CODES AND CORRESPONDINGLY PASS OR FAIL A BUILD.

READ MORE | NEWMAN DOCS ON GITHUB

```
dl npm @ https://nodejs.org/en/download/package-manager/
or run $ brew install node

$ npm install -g newman
$
$ newman run examples/sample-collection.json
$
$ newman run https://www.getpostman.com/collections/{{id}}
$
$ newman run -h
```

```
→ Status Code Test
  GET https://echo.getpostman.com/status/404 [404 Not Found, 534B, 1551ms]
  1\. response code is 200

┌─────────────────────────┬──────────┬──────────┐
│                         │ executed │   failed │
├─────────────────────────┼──────────┼──────────┤
│              iterations │        1 │        0 │
├─────────────────────────┼──────────┼──────────┤
│                requests │        1 │        0 │
├─────────────────────────┼──────────┼──────────┤
│            test-scripts │        1 │        0 │
├─────────────────────────┼──────────┼──────────┤
│      prerequest-scripts │        0 │        0 │
├─────────────────────────┼──────────┼──────────┤
│              assertions │        1 │        1 │
├─────────────────────────┴──────────┴──────────┤
│ total run duration: 1917ms                    │
├───────────────────────────────────────────────┤
│ total data received: 14B (approx)             │
├───────────────────────────────────────────────┤
│ average response time: 1411ms                 │
└───────────────────────────────────────────────┘

  #  failure        detail

 1\.  AssertionFai…  response code is 200
                    at assertion:1 in test-script
                    inside "Status Code Test" of "Example Collection with
                    Failing Tests"
```

REPORTERS

REPORTERS **ARE NODE MODULES THAT PROVIDE INFORMATION ABOUT THE COLLECTION RUN IN A SPECIFIC FORMAT.**

```
$ newman run examples/sample-collection.json -r cli, json
$ newman run examples/sample-collection.json --reporters json
```

CLI [DEFAULT]

JSON

JUNIT

EXTERNAL (HTML)

CUSTOM (READ MORE)

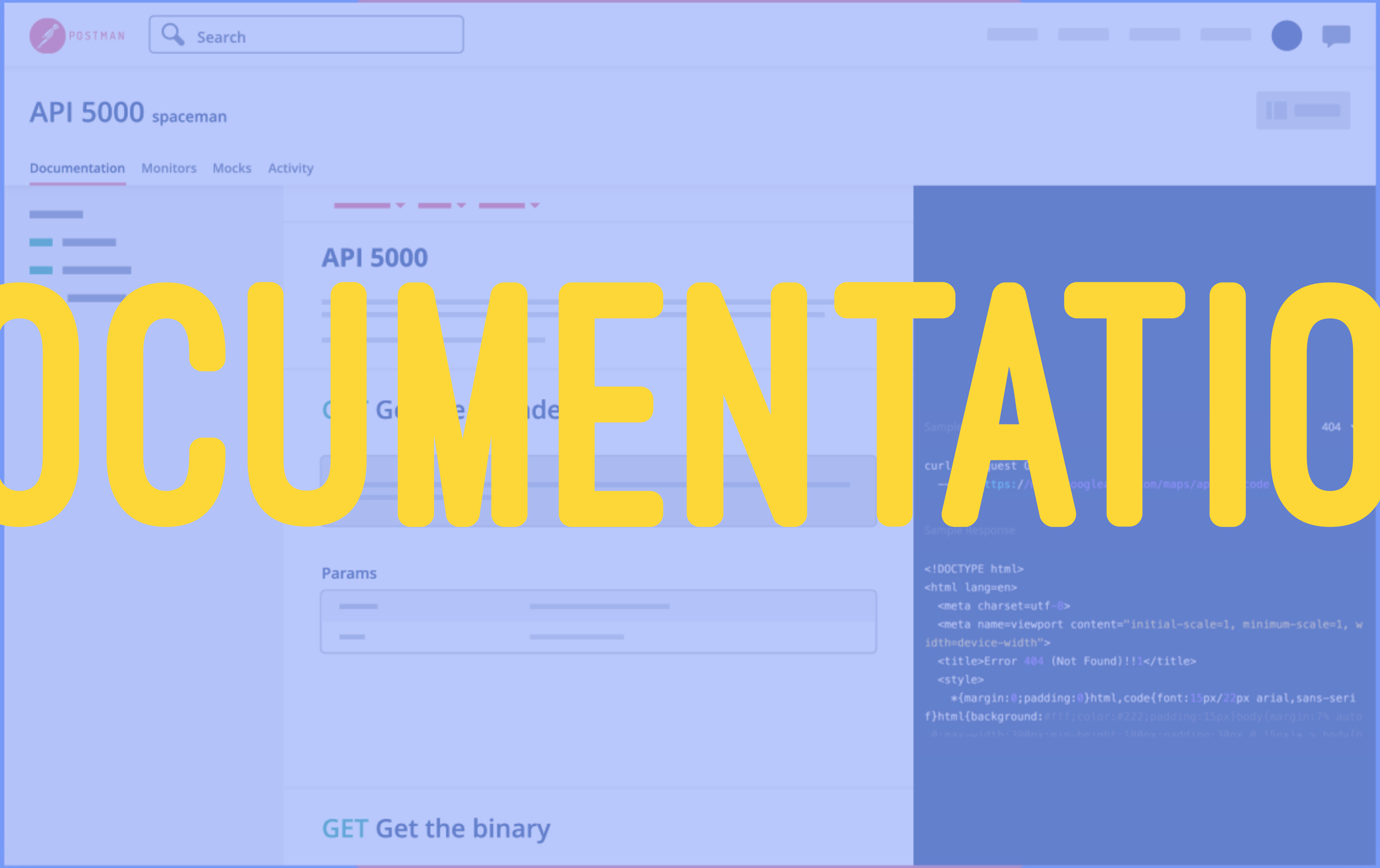
NEWMAN RUN <COLLECTION-FILE-SOURCE> [OPTIONS]

```
$-E <SOURCE>, -ENVIRONMENT<SOURCE>
$-G <SOURCE>, --GLOBALS <SOURCE>
$-D <SOURCE>, --ITERATION-DATA <SOURCE>
$-N <NUMBER>, --ITERATION-COUNT <NUMBER>
$--FOLDER <NAME>
```

...AND MORE

THERE'S MORE!

DOCUMENTATION



POSTMAN Search

API 5000 spaceman

Documentation Monitors Mocks Activity

API 5000

G Ge e de

Params

GET Get the binary

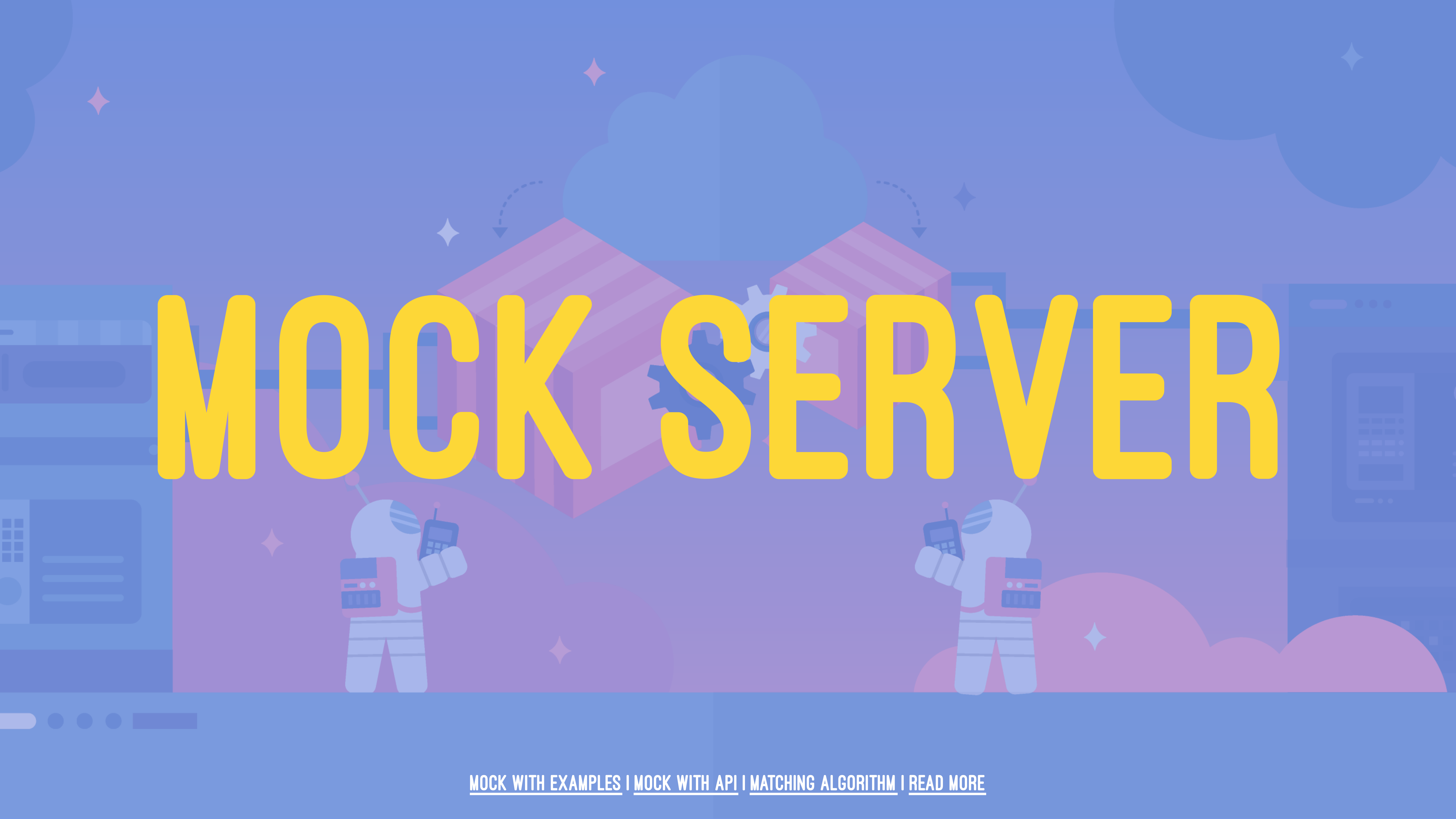
Sample 404

```
curl uest G
  -- ttps:// oogle om/maps/ap code
```

Sample Response

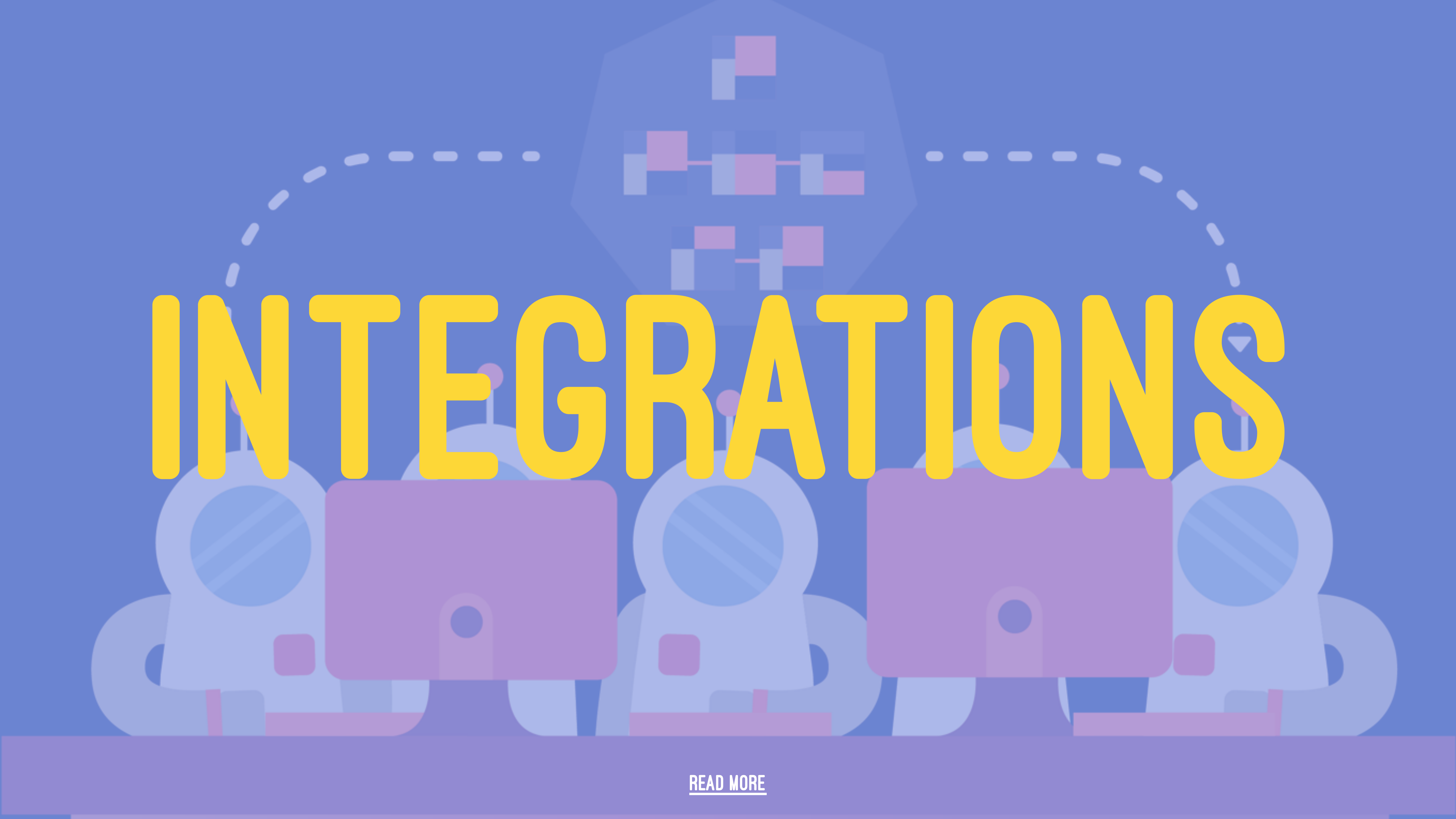
```
<!DOCTYPE html>
<html lang=en>
  <meta charset=utf-8>
  <meta name=viewport content="initial-scale=1, minimum-scale=1, w
idth=device-width">
  <title>Error 404 (Not Found)!!1</title>
  <style>
    *{margin:0;padding:0}html,code{font:15px/22px arial,sans-seri
f}html{background:#fff;color:#222;padding:15px}body{margin:7% auto
 0;max-width:390px;min-height:180px;padding:30px 0 15px}* > body{b
```

READ MORE | POSTMAN ON STEROIDS DOCS



MOCK SERVER

MOCK WITH EXAMPLES | MOCK WITH API | MATCHING ALGORITHM | READ MORE

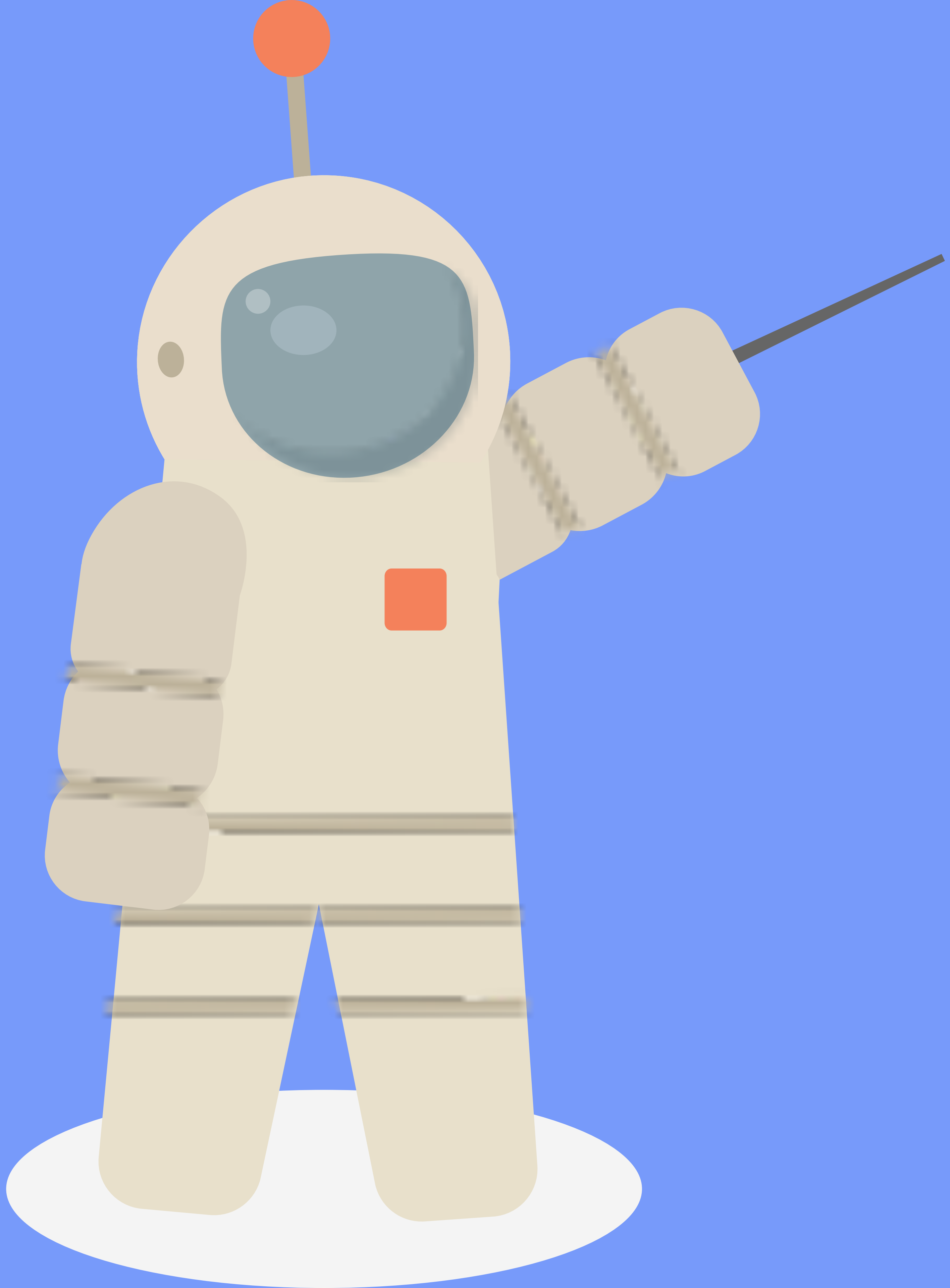


INTEGRATIONS

READ MORE

- USE POSTMAN AS PROXY
- GENERATE CODE SNIPPETS
- ENTERPRISE AUDIT LOGS
- ENTERPRISE SSO

PRICING



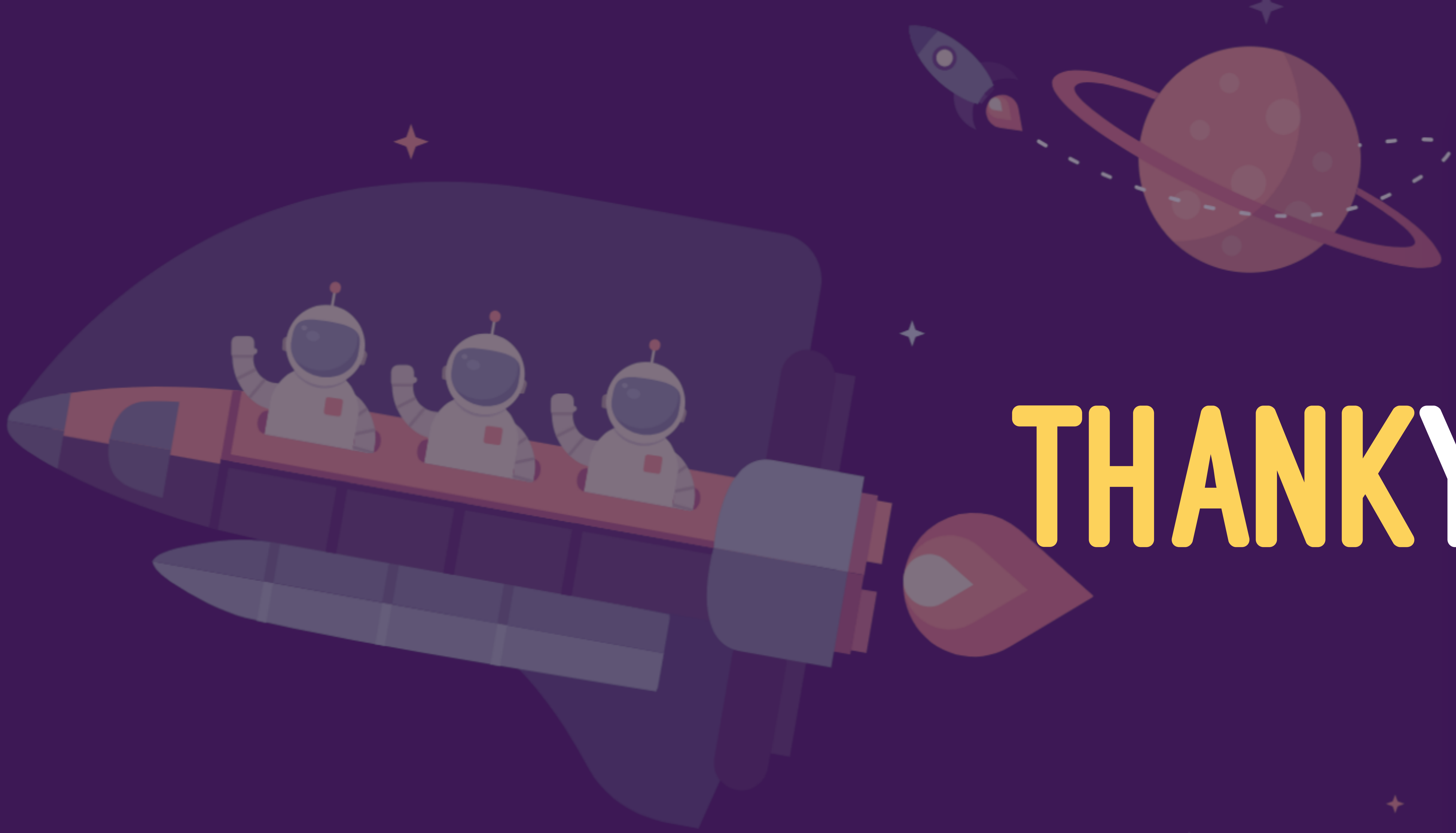
DOCUMENTATION

CONCEPTS

BLOG

YOUTUBE CHANNEL

Run in Postman



THANKYOU

GITHUB.COM/SARASEWARD/POSTMAN-ON-STEROIDS | PICTURES: LEARNING.GETPOSTMAN.COM