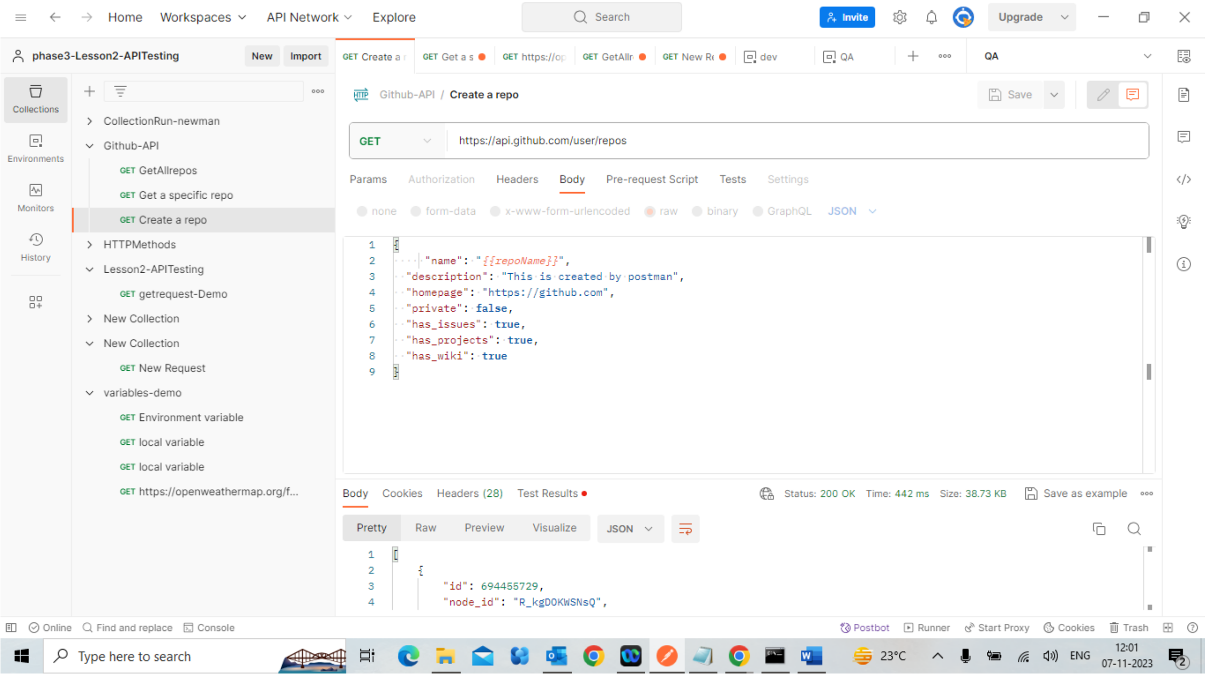
Test scripts are written in Postman:

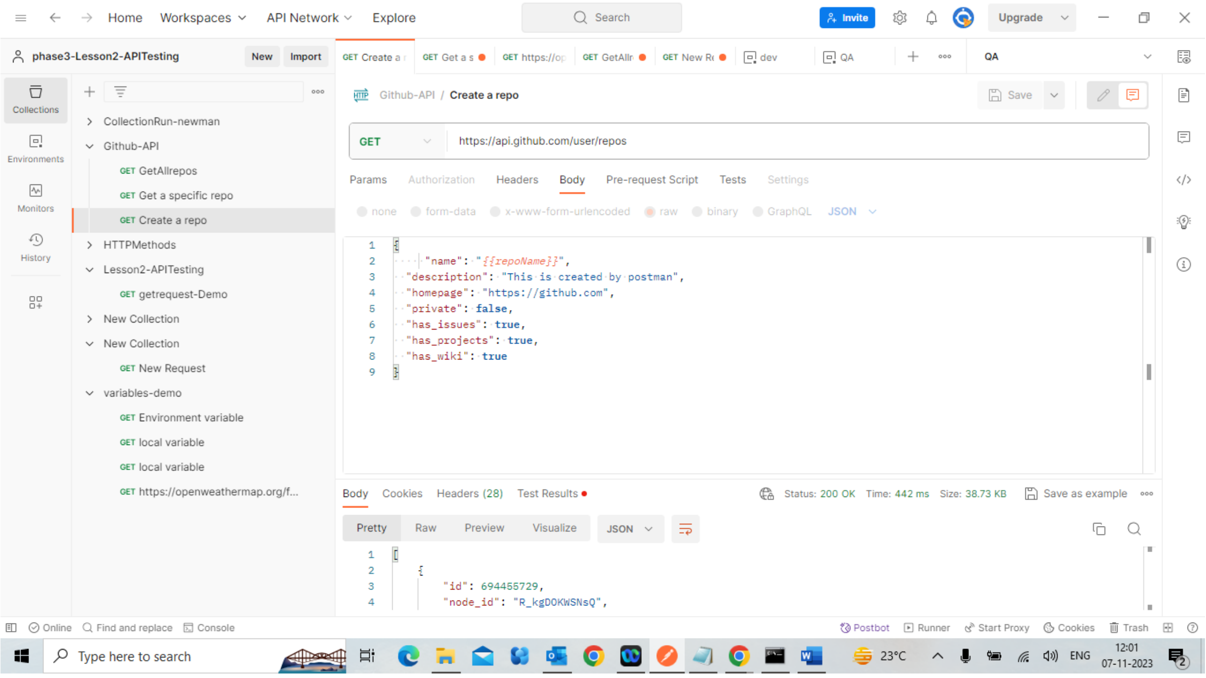


GET https://api.github.com/user/repos

```
{
    "name": "{{repoName}}",
  "description": "This is created by postman",
  "homepage": "https://github.com",
  "private": false,
  "has_issues": true,
  "has_projects": true,
  "has_wiki": true
}
```

Status: 200 OK Time: 442 ms Size: 38.73 KB

```
[
    {
        "id": 694455729,
        "node_id": "R_kgDOKWSNsQ",
```



Github-API / Create a repo

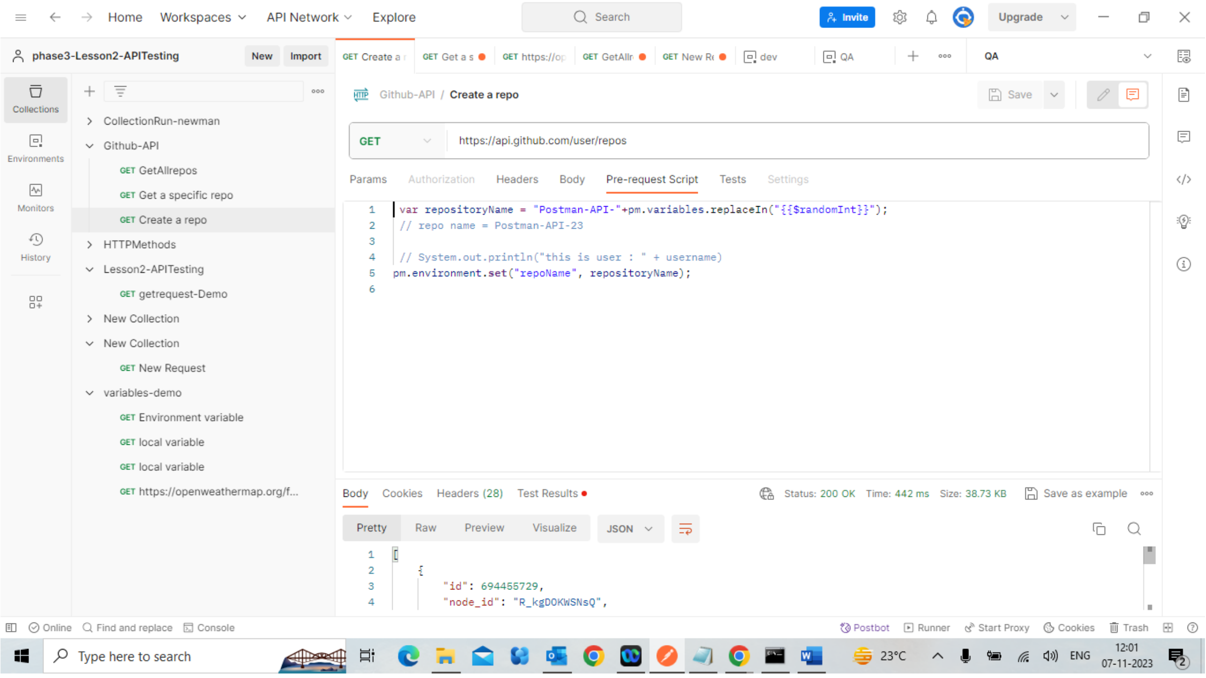
GET https://api.github.com/user/repos

Body: ○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL JSON

```
{
    "name": "{{repoName}}",
  "description": "This is created by postman",
  "homepage": "https://github.com",
  "private": false,
  "has_issues": true,
  "has_projects": true,
  "has_wiki": true
}
```

Body Cookies Headers (28) Test Results ● Status: 200 OK Time: 442 ms Size: 38.73 KB

```
[
    {
        "id": 694455729,
        "node_id": "R_kgDOKWSNsQ",
```



Github-API / Create a repo

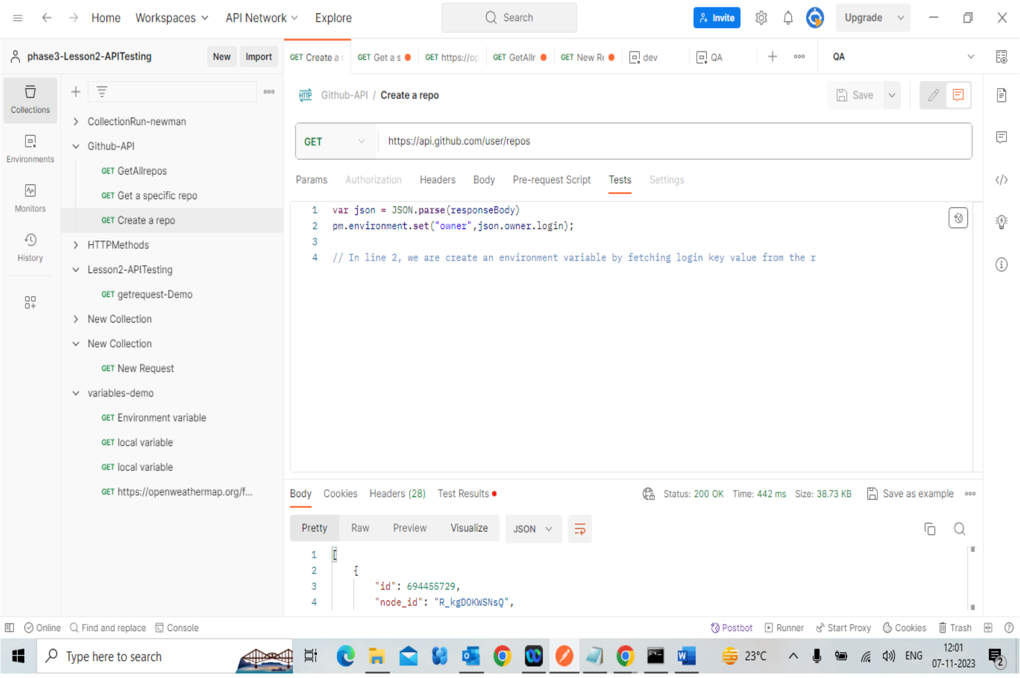
GET https://api.github.com/user/repos

Pre-request Script

```
var repositoryName = "Postman-API-"+pm.variables.replaceIn("{{$randomInt}}");
// repo name = Postman-API-23

// System.out.println("this is user : " + username)
pm.environment.set("repoName", repositoryName);

```

Body Cookies Headers (28) Test Results ● Status: 200 OK Time: 442 ms Size: 38.73 KB

```
[
    {
        "id": 694455729,
        "node_id": "R_kgDOKWSNsQ",
```



Github-API / Create a repo

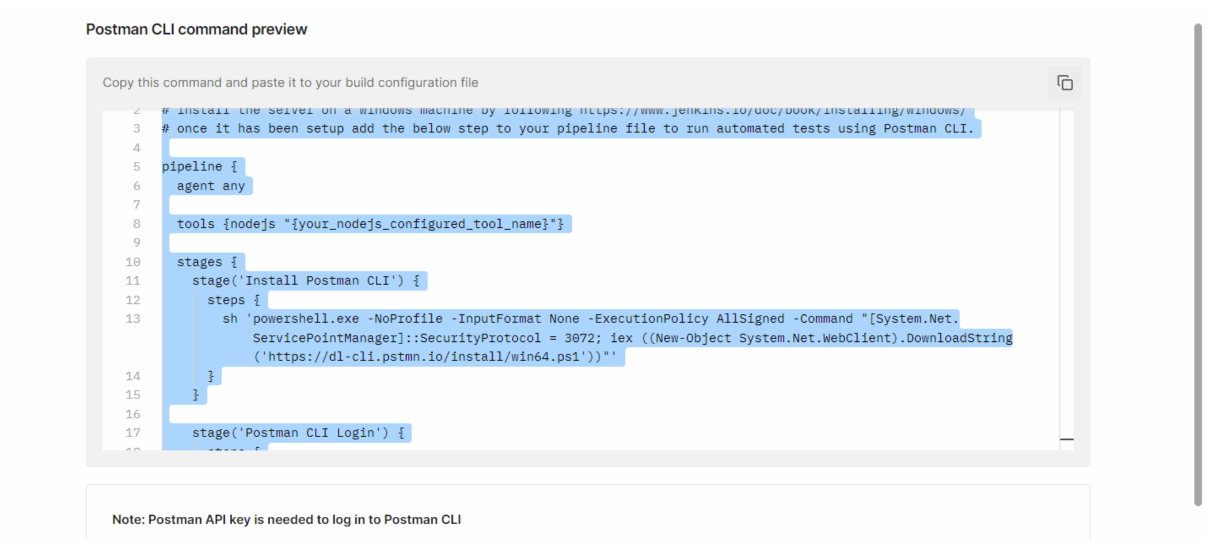
GET https://api.github.com/user/repos

```
1  var json = JSON.parse(responseBody)
2  pm.environment.set("owner",json.owner.login);
3
4  // In line 2, we are create an environment variable by fetching login key value from the r
```

Status: 200 OK Time: 442 ms Size: 38.73 KB

```
[
    {
        "id": 694455729,
        "node_id": "R_kgDOKWSNsQ",
```

Postman is used with Jenkins:



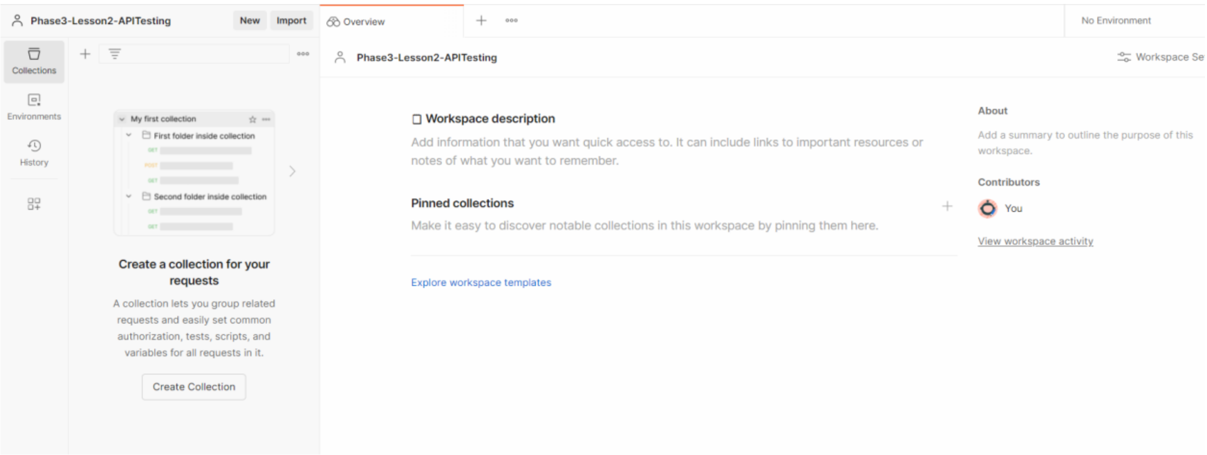
Postman CLI command preview

Copy this command and paste it to your build configuration file

```
# install the server on a windows machine by following https://www.jenkins.io/doc/book/installing/windows/
# once it has been setup add the below step to your pipeline file to run automated tests using Postman CLI.

pipeline {
  agent any

  tools {nodejs "{your_nodejs_configured_tool_name}"}

  stages {
    stage('Install Postman CLI') {
      steps {
        sh 'powershell.exe -NoProfile -InputFormat None -ExecutionPolicy AllSigned -Command "[System.Net.
          ServicePointManager]::SecurityProtocol = 3072; iex ((New-Object System.Net.WebClient).DownloadString
          ('https://dl-cli.pstmn.io/install/win64.ps1'))"'
      }
    }

    stage('Postman CLI Login') {
      steps {
```

Note: Postman API key is needed to log in to Postman CLI

Workspaces in Postman :



Phase3-Lesson2-APITesting
New
Import
Overview
No Environment
Collections
Environments
History
Phase3-Lesson2-APITesting
Workspace Se
My first collection
First folder inside collection
Second folder inside collection

Workspace description

Add information that you want quick access to. It can include links to important resources or notes of what you want to remember.

Pinned collections

Make it easy to discover notable collections in this workspace by pinning them here.

Explore workspace templates

About

Add a summary to outline the purpose of this workspace.

Contributors

You

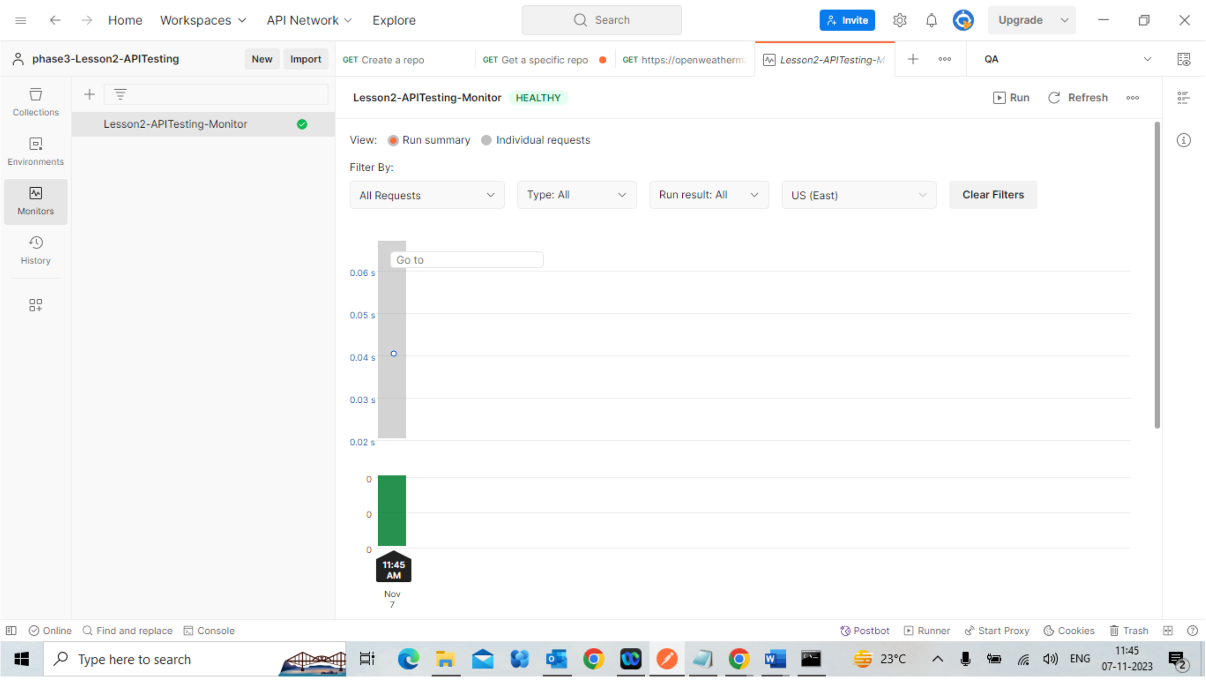
View workspace activity

Create a collection for your requests

A collection lets you group related requests and easily set common authorization, tests, scripts, and variables for all requests in it.

Create Collection

Monitors in postman:



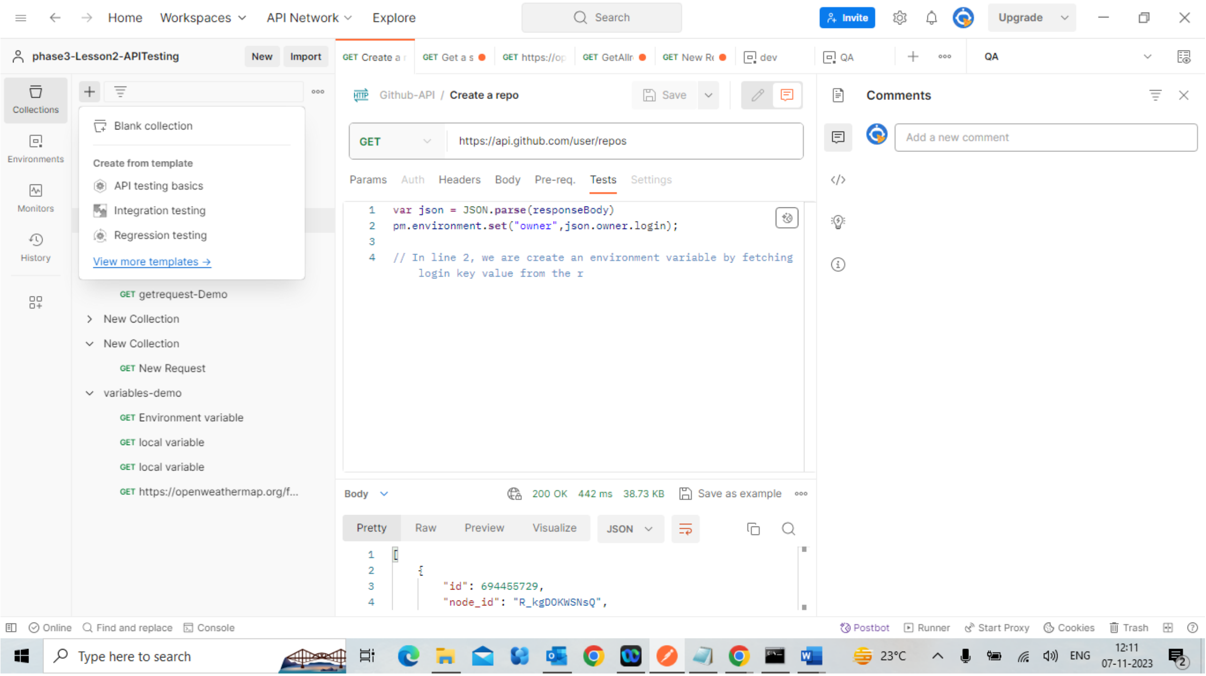
Lesson2-APITesting-Monitor HEALTHY

View: ● Run summary ○ Individual requests

Filter By:

All Requests | Type: All | Run result: All | US (East) | Clear Filters

API documentation:

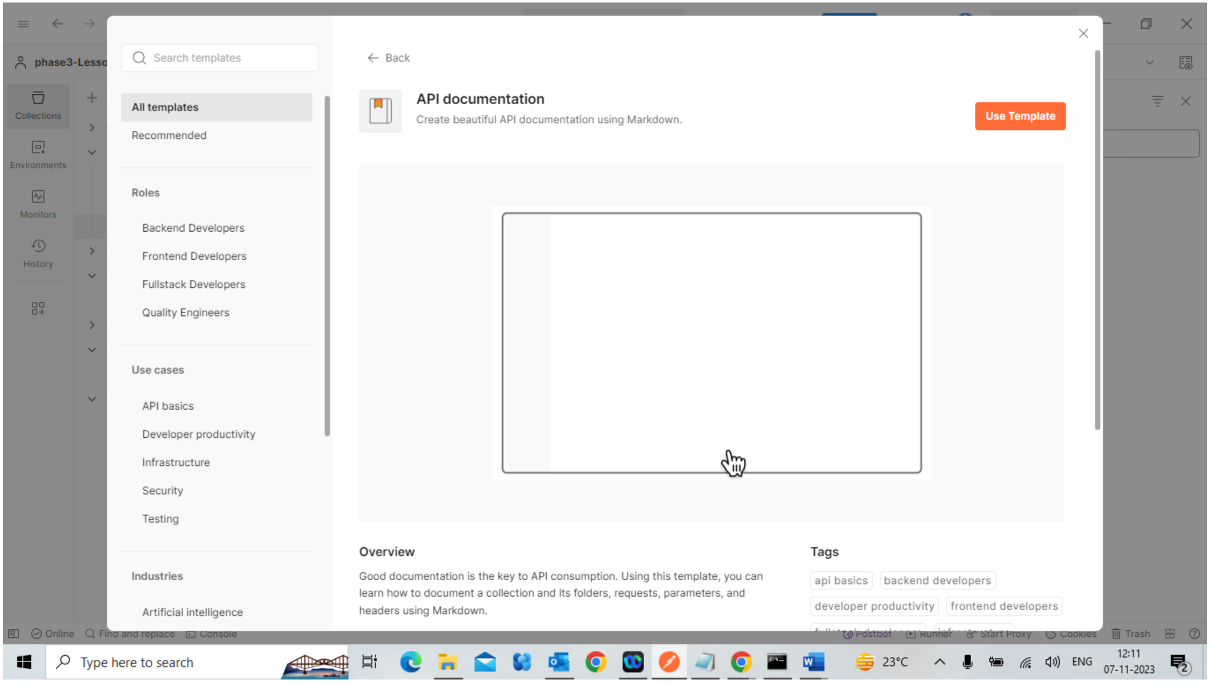


GET https://api.github.com/user/repos

```
1  var json = JSON.parse(responseBody)
2  pm.environment.set("owner",json.owner.login);
3
4  // In line 2, we are create an environment variable by fetching
       login key value from the r
```

Body 200 OK 442 ms 38.73 KB Save as example

```
1  [
2      {
3          "id": 694455729,
4          "node_id": "R_kgDOKWSNsQ",
```



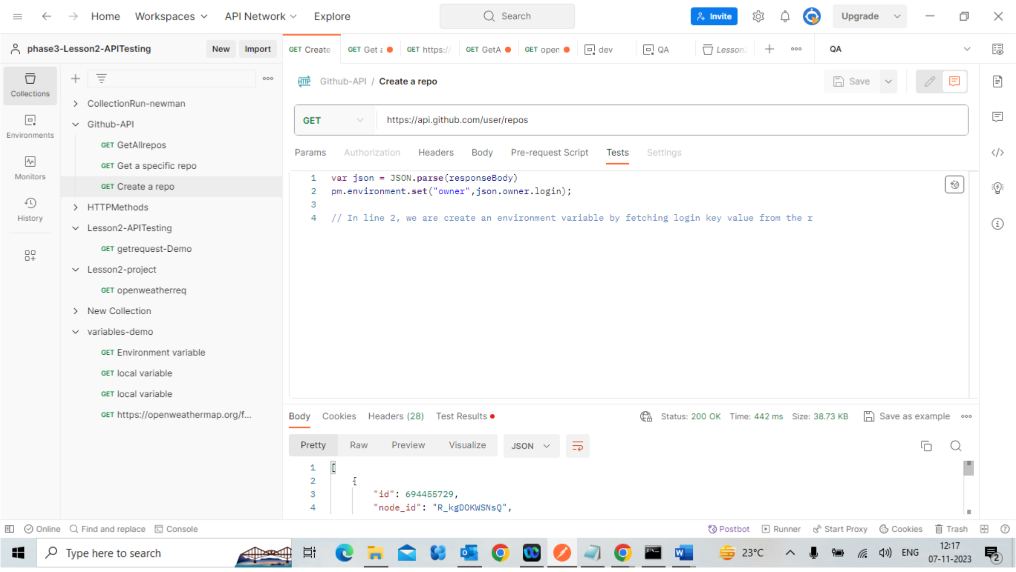
API documentation

Create beautiful API documentation using Markdown.

Overview

Good documentation is the key to API consumption. Using this template, you can learn how to document a collection and its folders, requests, parameters, and headers using Markdown.

Data from CSV and JSON:



Github-API / Create a repo

GET https://api.github.com/user/repos

Params · Authorization · Headers · Body · Pre-request Script · Tests · Settings

```
1  var json = JSON.parse(responseBody)
2  pm.environment.set("owner",json.owner.login);
3
4  // In line 2, we are create an environment variable by fetching login key value from the r
```

Body · Cookies · Headers (28) · Test Results

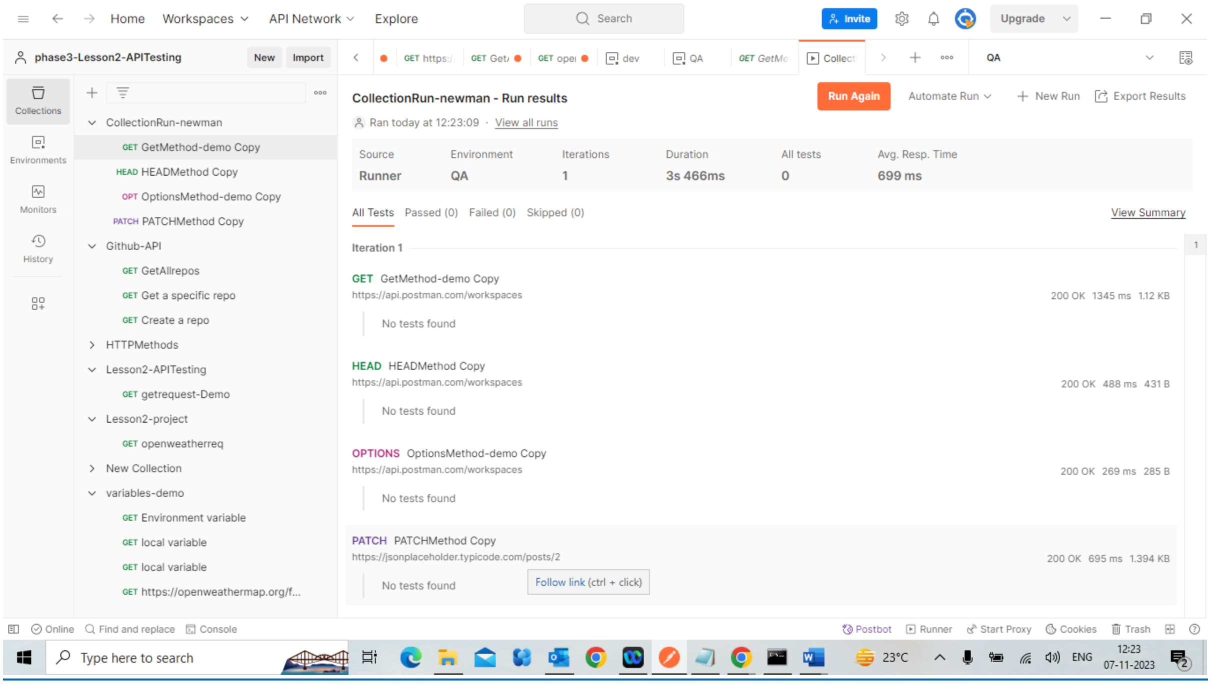
Status: 200 OK Time: 442 ms Size: 38.73 KB Save as example

Pretty · Raw · Preview · Visualize · JSON

```
[
    {
        "id": 694455729,
        "node_id": "R_kgDOKWSNsQ",
```

23°C ENG 12:17 07-11-2023

Run a collection remotely with URL:



CollectionRun-newman - Run results

Run Again · Automate Run · New Run · Export Results

Ran today at 12:23:09 · View all runs

Source	Environment	Iterations	Duration	All tests	Avg. Resp. Time
Runner	QA	1	3s 466ms	0	699 ms

All Tests · Passed (0) · Failed (0) · Skipped (0) · View Summary

Iteration 1

GET GetMethod-demo Copy
https://api.postman.com/workspaces 200 OK 1345 ms 1.12 KB
No tests found

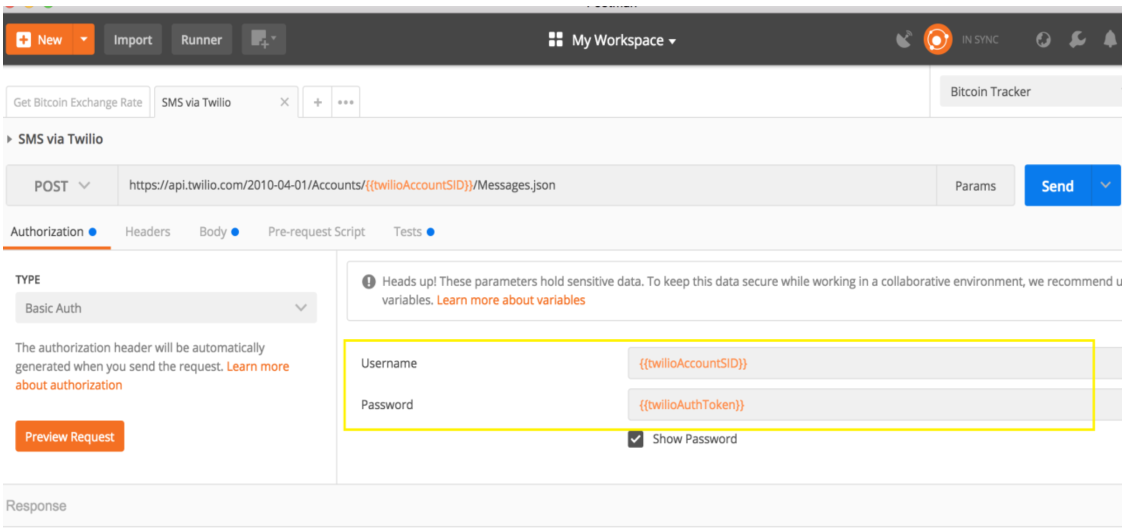
HEAD HEADMethod Copy
https://api.postman.com/workspaces 200 OK 488 ms 431 B
No tests found

OPTIONS OptionsMethod-demo Copy
https://api.postman.com/workspaces 200 OK 269 ms 285 B
No tests found

PATCH PATCHMethod Copy
https://jsonplaceholder.typicode.com/posts/2 200 OK 695 ms 1.394 KB
No tests found Follow link (ctrl + click)

23°C ENG 12:23 07-11-2023

API Chaining and REST in Postman:



POST https://api.twilio.com/2010-04-01/Accounts/{{twilioAccountSID}}/Messages.json

TYPE

Basic Auth

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

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend u variables. Learn more about variables

Username {{twilioAccountSID}}

Password {{twilioAuthToken}}

☑ Show Password