

# Phase3-Practice Project: Assisted Practice

## Postman:

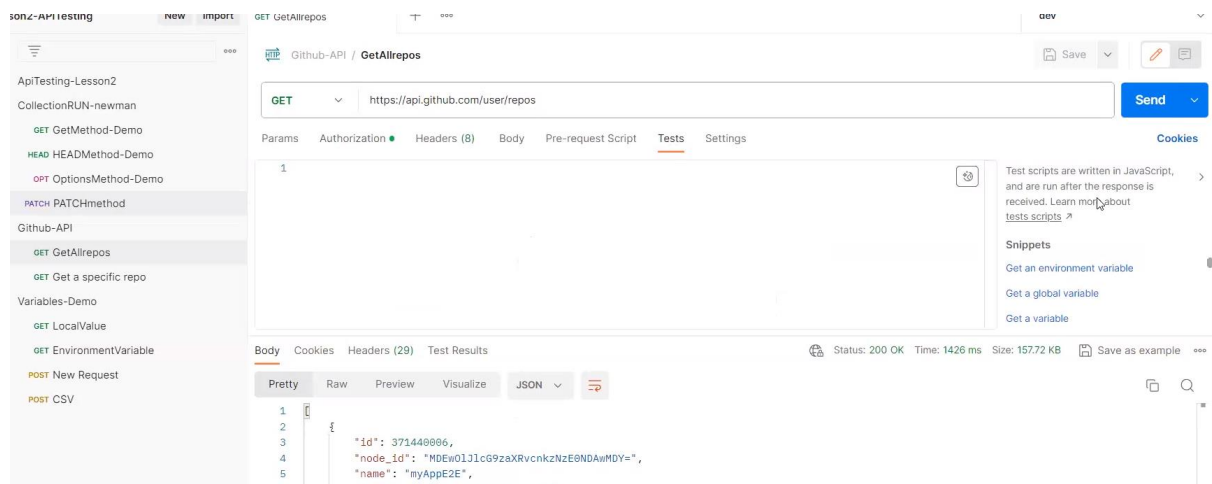
Demonstrate how test scripts are written in Postman.

Demonstrate API Chaining and REST in Postman.

Demonstrate how monitors are used.

## Test scripts:

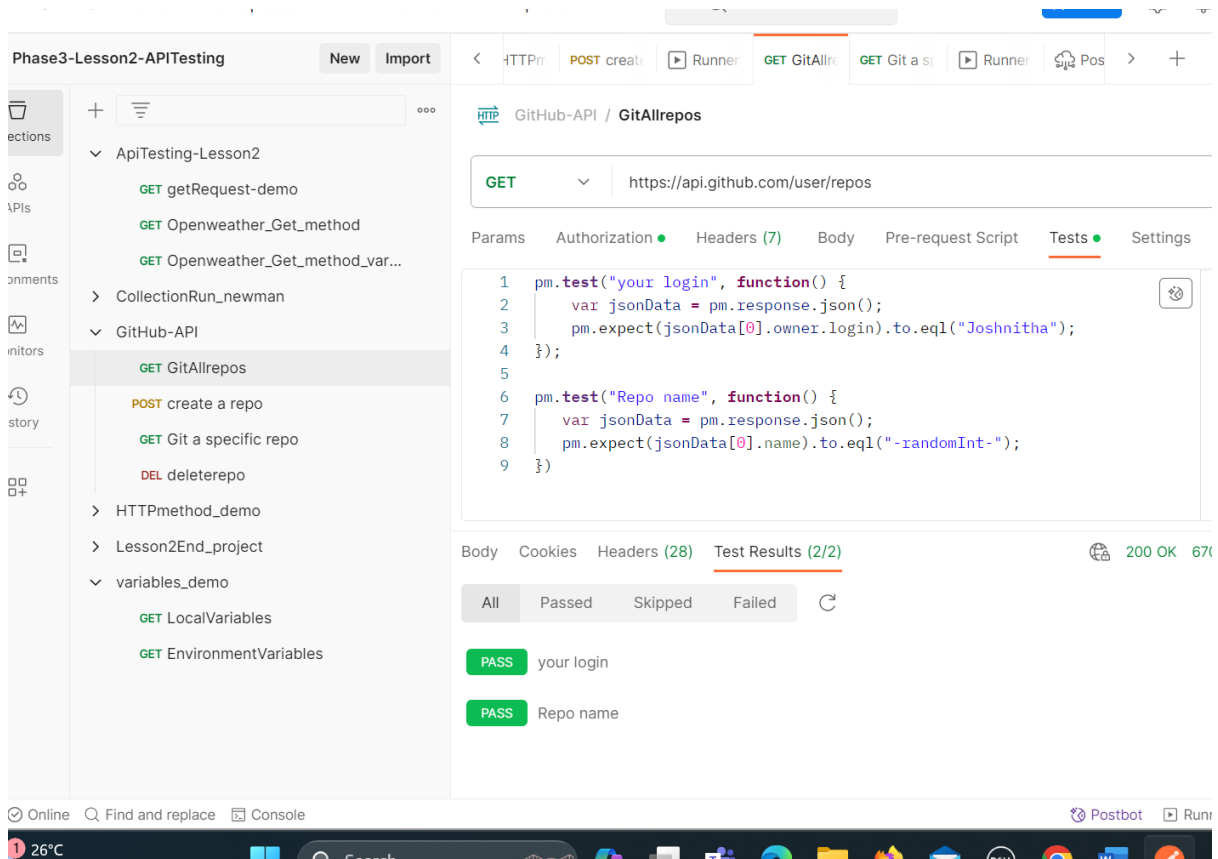
Create a collection → request



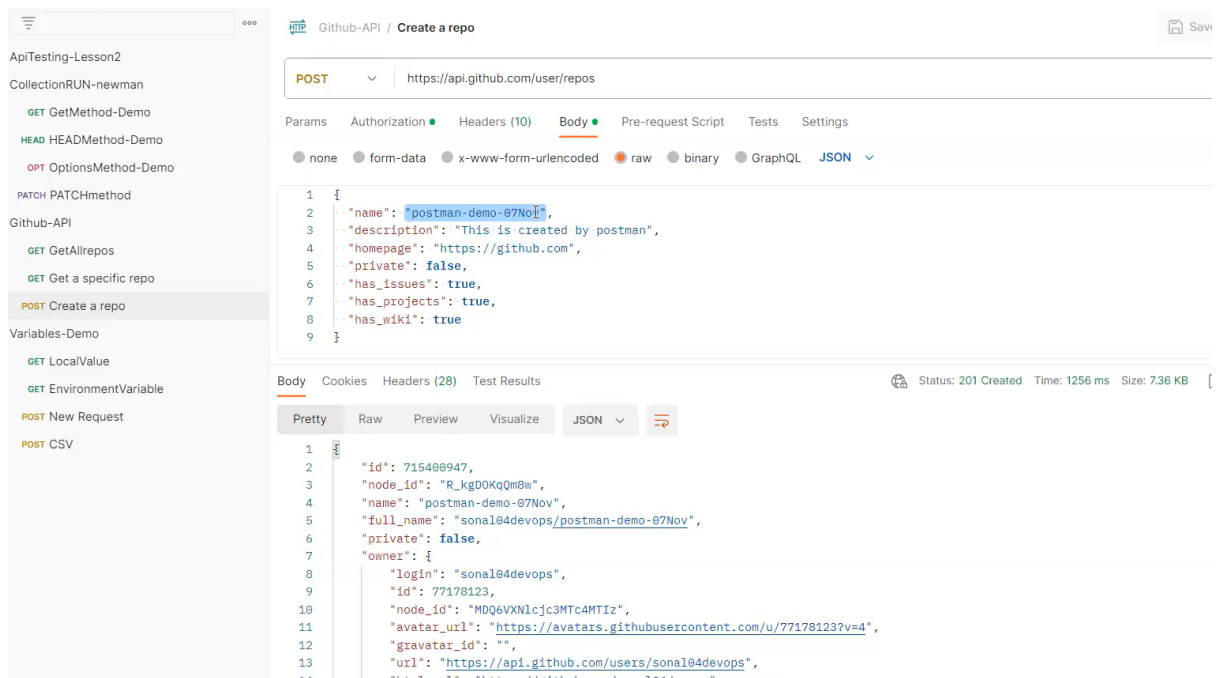
Write a test script in tests section.



Click on Save and send



First create a repo using postman.



Changing the repo name and giving random name to repo

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ApiTesting-Lesson2

GET getRequest-demo

GET Openweather\_Get\_method

GET Openweather\_Get\_method\_var...

> CollectionRun\_newman

✓ GitHub-API

GET GitAllrepos

POST create a repo

GET Git a specific repo

DEL deleterepo

> HTTPmethod\_demo

> Lesson2End\_project

✓ variables\_demo

GET LocalVariables

GET EnvironmentVariables

GitHub-API / create a repo

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

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

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

```

1 {
2   "name": "{{repoName}}",
3   "description": "This is created by postman",
4   "homepage": "https://github.com",
5   "private": false,
6   "has_issues": true,
7   "has_projects": true,
8   "has_wiki": true
9 }

```

Response

GitHub-API / Create a repo

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

Params Authorization Headers (10) Body Pre-request Script Tests Settings

```

1 var repositoryName = "Postman-Api-" + pm.variables.replaceIn('{{$randomInt}}');
2 // repo name = Postman-Api-23
3 // System.out.println("this is user : " + username)
4
5 pm.environment.set("repoName", repositoryName);

```

Pre-request scripts JavaScript, and are request is sent. Let pre-request scripts

Snippets

Get an environmen

Get a global vari

Get a variable

Get a collection vai

Body Cookies Headers (28) Test Results

Status: 201 Created Time: 1256 ms Size: 7.36 KB

Click on save and send

A random repo got create

☰

...

ApiTesting-Lesson2

CollectionRUN-newman

GET GetMethod-Demo

HEAD HEADMethod-Demo

OPT OptionsMethod-Demo

PATCH PATCHMethod

GitHub-API

GET GetAllrepos

GET Get a specific repo

POST Create a repo

Variables-Demo

GET LocalValue

GET EnvironmentVariable

POST New Request

GitHub-API / Create a repo

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

Params Authorization Headers (10) Body Pre-request Script Tests Settings

```

1 var repositoryName = "Postman-Api-" + pm.variables.replaceIn('{{$randomInt}}');
2 // repo name = Postman-Api-23
3 // System.out.println("this is user : " + username)
4
5 pm.environment.set("repoName", repositoryName);

```

Body Cookies Headers (28) Test Results

Status: 201 Created Time: 1003 ms Siz

Pretty Raw Preview Visualize JSON

```

1 {
2   "id": "715405264",
3   "node_id": "R_kgD0KqQ38A",
4   "name": "Postman-Api-179",

```

## Create an environment variable using postman

The screenshot shows the Postman interface for a POST request to `https://api.github.com/user/repos`. The request is titled "Create a repo". The "Tests" tab is active, displaying a JavaScript test script:

```
1 pm.test("create owner variable", function() {
2   var json = JSON.parse(responseBody)
3   pm.environment.set("owner", json.owner.login);
4
5 });
6
7 // in line 2, we are create an environment variable by fetching login key value from the r
8
```

On the right side, under "Snippets", there are links for "Get an environment variable", "Get a global variable", and "Get a variable". The "Test Results" section at the bottom shows a "PASS" status for the "create owner variable" test.

## API Chaining:

The screenshot shows the Postman interface for a POST request to `https://api.github.com/user/repos`. The request is titled "create a repo". The "Body" tab is active, displaying a JSON body:

```
1 {
2   "name": "{{repoName}}",
3   "description": "This is created by postman",
4   "homepage": "https://github.com",
5   "private": false,
6   "has_issues": true,
7   "has_projects": true,
8   "has_wiki": true
9 }
```

On the left side, a collection named "ApiTesting-Lesson2" is expanded, showing a list of API tests including "POST create a repo". Below the "Response" section, there is a cartoon illustration of an astronaut holding a rocket.

ting-Lesson2

getRequest-demo

Openweather\_Get\_method

Openweather\_Get\_method\_var...

ionRun\_newman

r-API

GitAllrepos

create a repo

Git a specific repo

deleterepo

ethod\_demo

i2End\_project

es\_demo

LocalVariables

EnvironmentVariables

GitHub-API / Git a specific repo

Save

GET

https://api.github.com/repos/owner:/repos

Send

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Cookies

Key	Value	Description	Bulk Edit
Key	Value	Description	

Path Variables

Key	Value	Description	Bulk Edit
owner	Joshnitha		
repos	gitrepo	Description	

Response

+

ApiTesting-Lesson2

GET getRequest-demo

GET Openweather\_Get\_method

GET Openweather\_Get\_method\_var...

> CollectionRun\_newman

GitHub-API

GET GitAllrepos

POST create a repo

GET Git a specific repo

DEL deleterepo

> HTTPmethod\_demo

> Lesson2End\_project

variables\_demo

GET LocalVariables

GET EnvironmentVariables

GitHub-API / Git a specific repo

Save

GET

https://api.github.com/repos/owner:/repos

Send

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Co

Key	Value	Description	Bulk Ec
Key	Value	Description	

Path Variables

Key	Value	Description	Bulk Ec
owner	{{owner}}		
repos	{{repoName}}	Description	

Response

Click Send to get a response

Specific repo will take the owner and repoName from the create a repo.

This is chaining

Click on save and send.

Lesson2-APITesting

New Import

GitHub-API / Git a specific repo

GET

https://api.github.com/repos:owner/:repos

Send

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Cookies

```

1 pm.test("Response time is less than 600ms", function () {
2   pm.expect(pm.response.responseTime).to.be.below(600);
3 })
4 pm.test("Status code is 200", function () {
5   pm.response.to.have.status(200);
6 });
7 pm.test("Status code name has OK", function () {
8   pm.response.to.have.status("OK");
9 });
10
11 pm.test("Content-Type is present", function () {

```

Test scripts are written in JavaScript, and are run after the response is received. Learn more about [tests scripts](#)

Snippets

Get an environment variable

Get a global variable

Get a variable

Body

Cookies

Headers (29)

Test Results (4/4)

200 OK

408 ms

7.2 KB

Save as example

Pretty

Raw

Preview

Visualize

JSON

```

1 {
2   "id": 715605805,
3   "node_id": "R_kgDOKqdHLQ",
4   "name": "Postman-Api-697",
5   "full_name": "Joshnitha/Postman-Api-697",
6   "private": false,
7   "owner": {

```

Click on save and send

GET

https://api.github.com/repos:owner/:repos

Params

Authorization

Headers (7)

Body

Pre-request Script

```

1 pm.test("Response time is less than 600ms", function ()
2   pm.expect(pm.response.responseTime).to.be.below(600)
3 })
4 pm.test("Status code is 200", function () {
5   pm.response.to.have.status(200);

```

Body

Cookies

Headers (29)

Test Results (4/4)

All

Passed

Skipped

Failed

↻

PASS

Response time is less than 600ms

PASS

Status code is 200

PASS

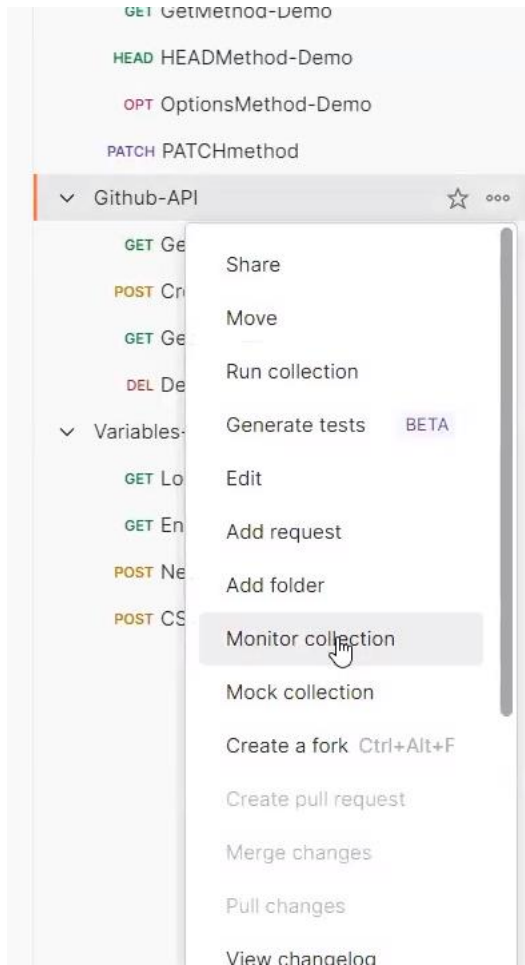
Status code name has OK

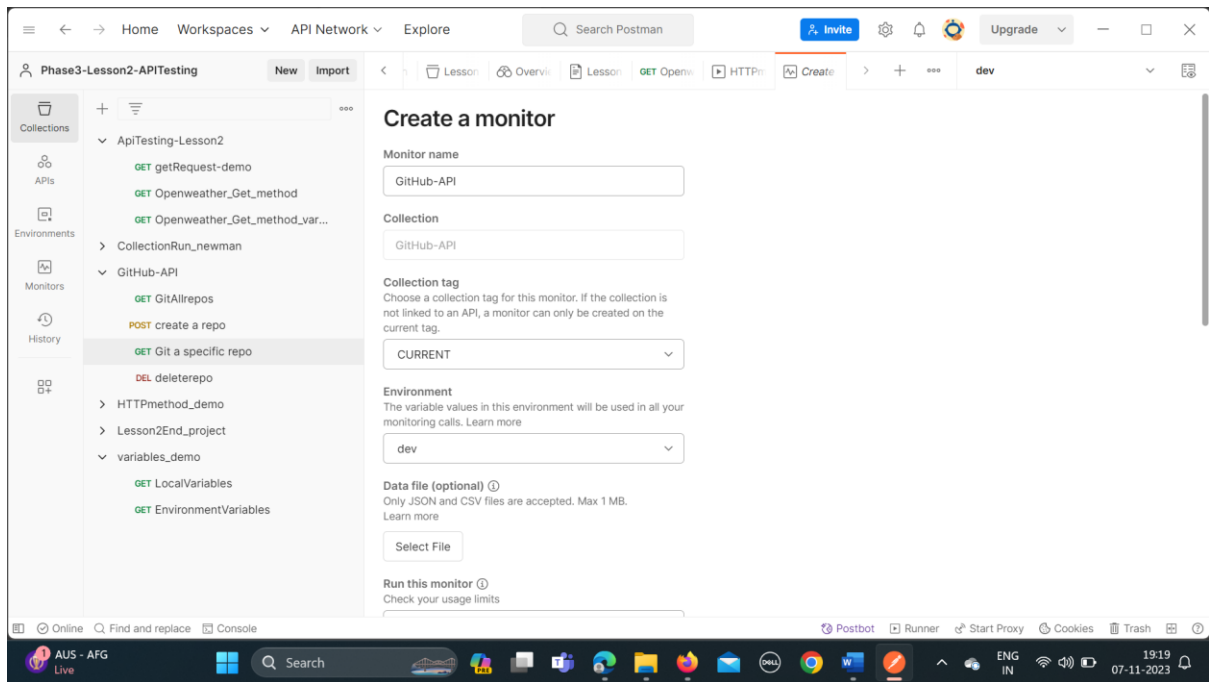
PASS

Content-Type is present

## Monitor:

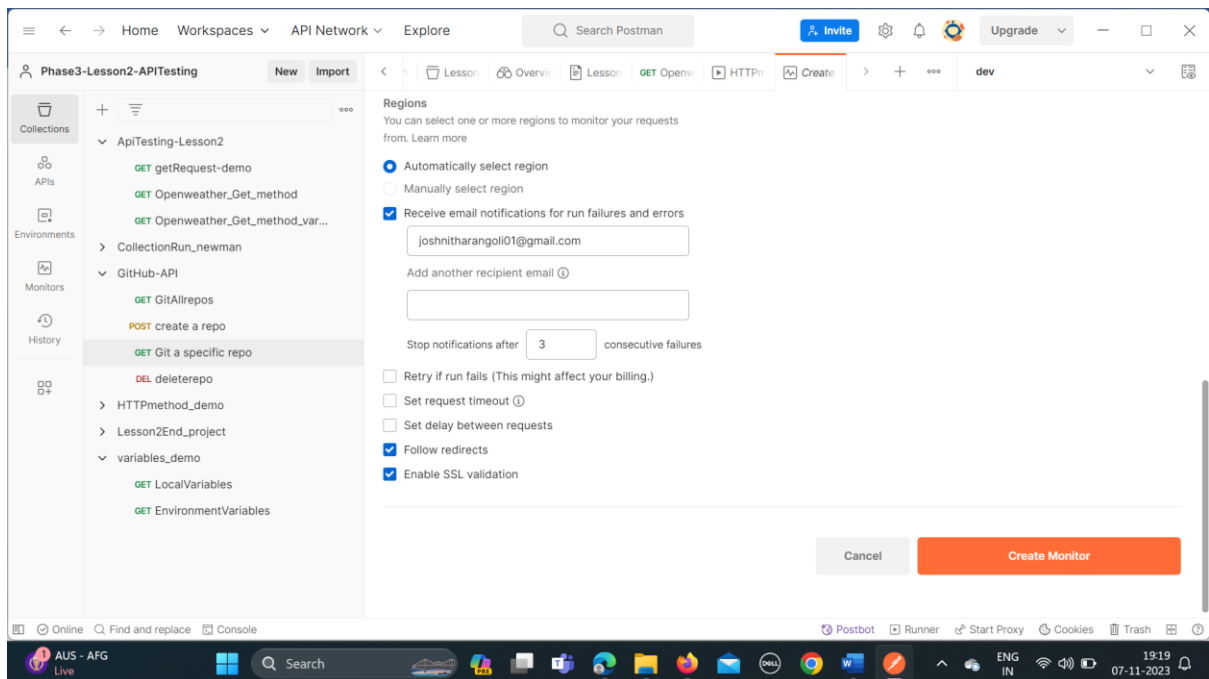
Click on monitor collection



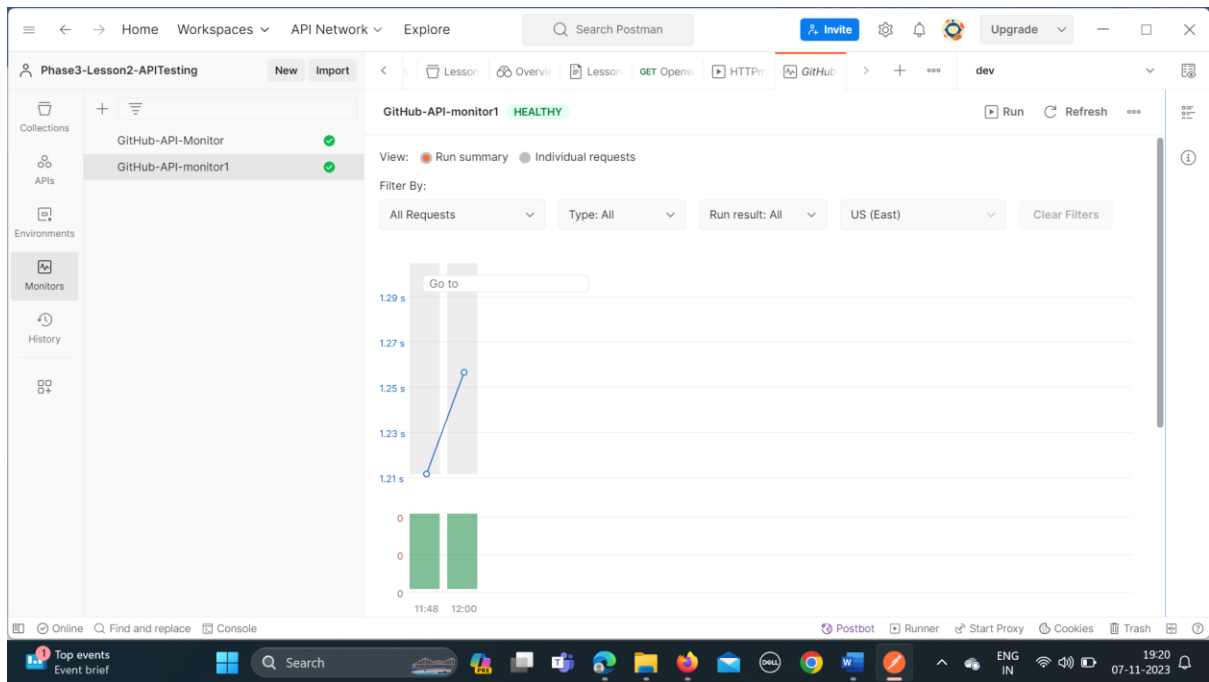


We can set the time also

Click on create monitor







Lesson Overview Lesson GET Open HTTP GitHub dev

GitHub-API-monitor1 HEALTHY Run Refresh

0 failed tests, 0 errors, across 1 region 07:22 PM, 07 Nov 2023 Region US (East)

Test Results Console Log

All Tests Passed Failed

GET	GitAllrepos	https://api.github.com/user/repos	200 OK	205 ms	68.8 kB
✓	PASS	your login			
✓	PASS	Repo name			
POST	create a repo	https://api.github.com/user/repos	201 Created	900 ms	5.7 kB
✓	PASS	create owner variable			
GET	Git a specific repo	https://api.github.com/repos/Joshnitha/Postman-API-178	200 OK	104 ms	5.9 kB
✓	PASS	Response time is less than 600ms			
✓	PASS	Status code is 200			
✓	PASS	Status code name has OK			