MOBILE SOLUTIONS DEVELOPMENT

ASSIGNMENT 4

Software QA Techniques

CONESTOGA

Connect Life and Learning

SUBMITTED BY:

NIXIT AHIR(8748790)

SUBMITTED TO:

Prof.Sharifi Lotfabad, F.,

Conestoga College Institute of Technology and Advanced Learning

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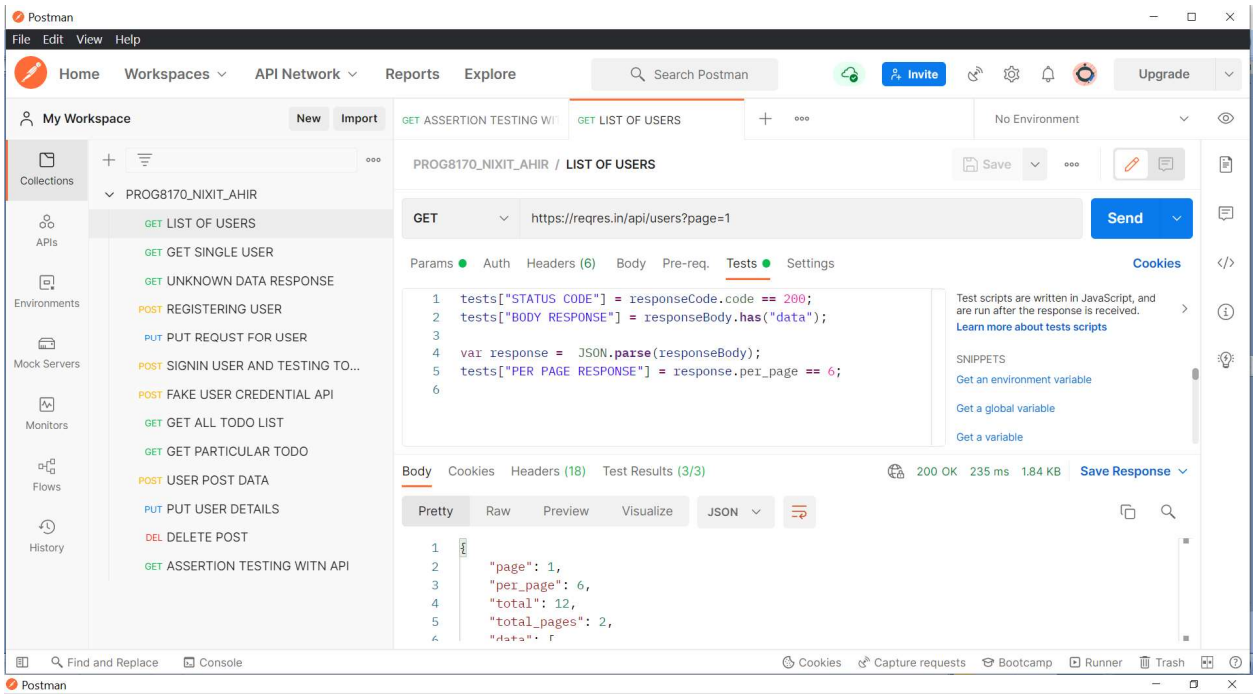
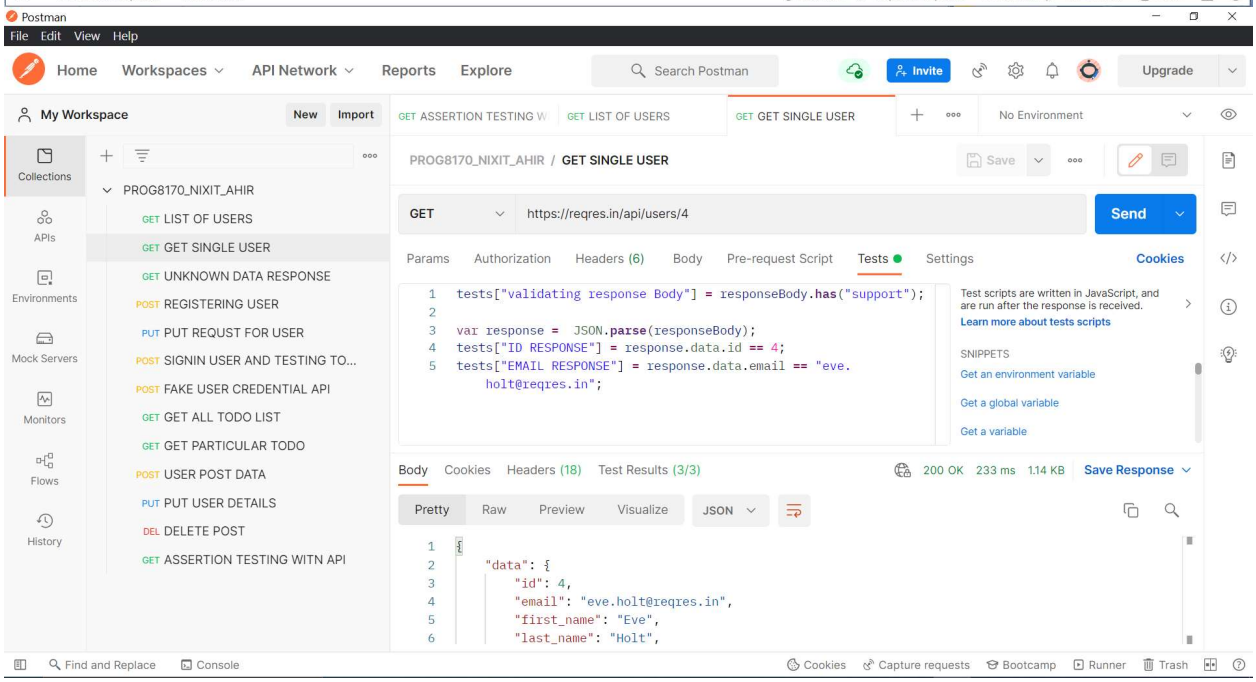
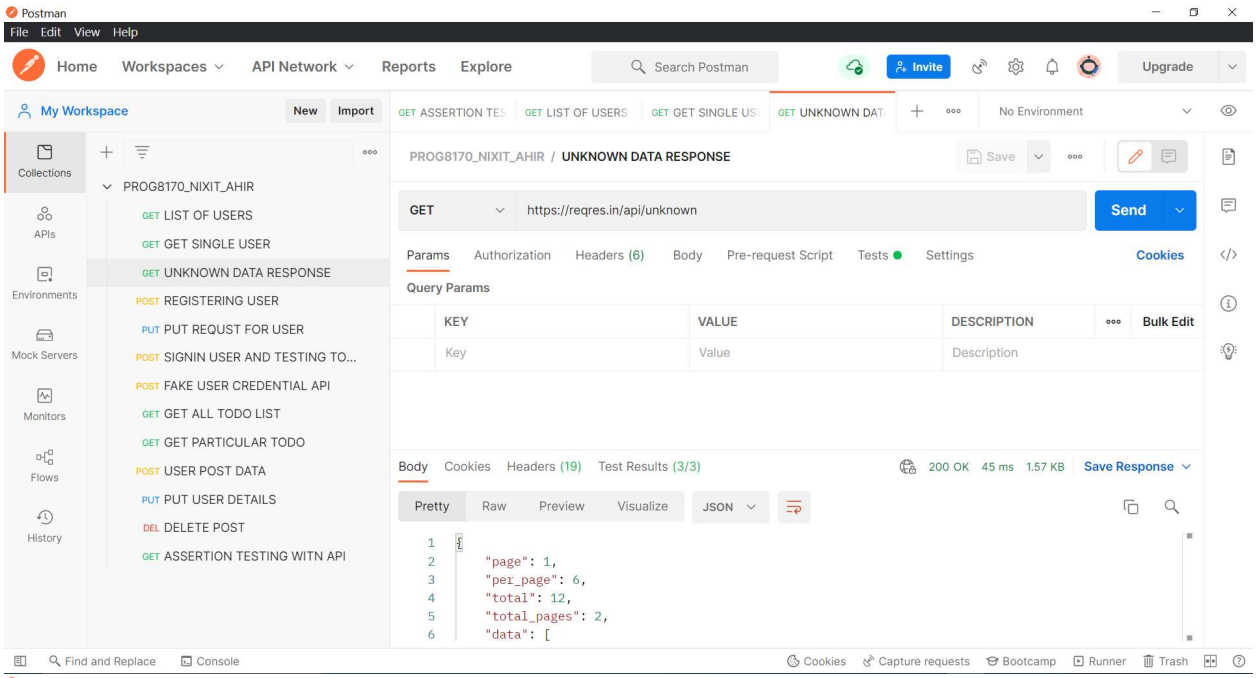
TEN UNIQUE API CALLS

Output:






Postman
File Edit View Help
Home Workspaces API Network Reports Explore
Search Postman
Invite
Upgrade
My Workspace
New Import
No Environment
Collections
APIs
Environments
Mock Servers
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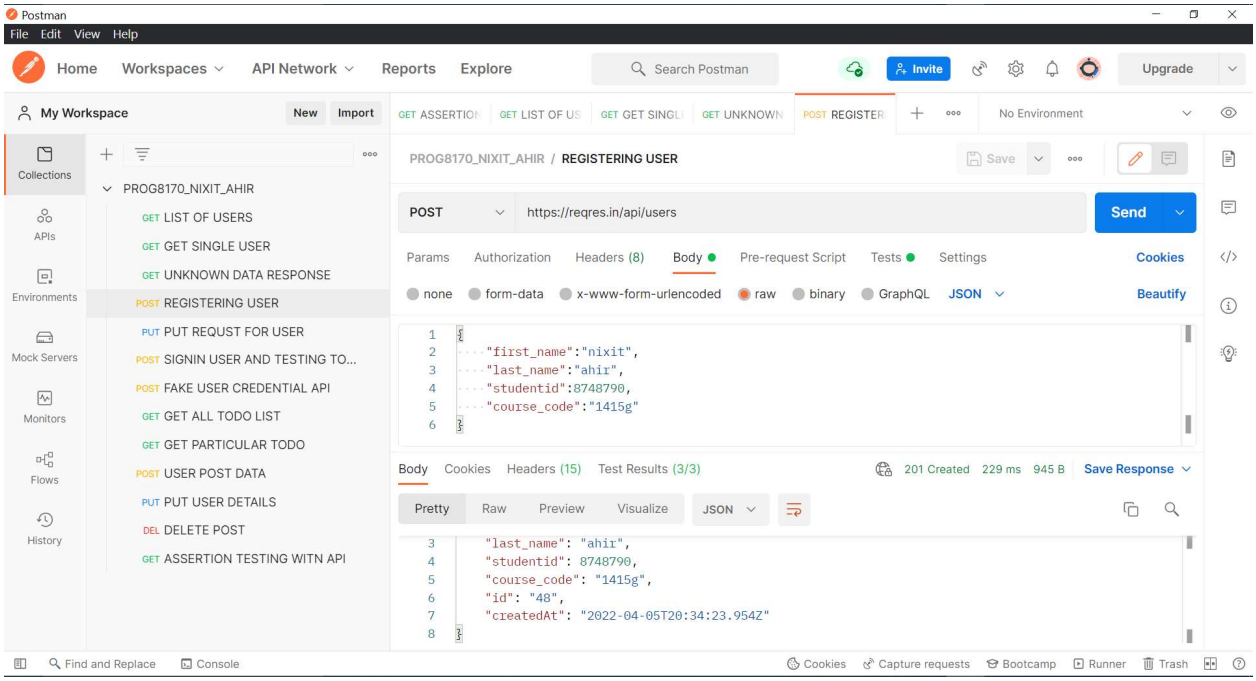
History
PROG8170_NIXIT_AHIR
GET LIST OF USERS
GET GET SINGLE USER
GET UNKNOWN DATA RESPONSE
POST REGISTERING USER
PUT PUT REQUST FOR USER
POST SIGNIN USER AND TESTING TO...
POST FAKE USER CREDENTIAL API
GET GET ALL TODO LIST
GET GET PARTICULAR TODO
POST USER POST DATA
PUT PUT USER DETAILS
DEL DELETE POST
GET ASSERTION TESTING WITN API
PROG8170_NIXIT_AHIR / UNKNOWN DATA RESPONSE
Save
GET
https://reqres.in/api/unknown
Send
Params Authorization Headers (6) Body Pre-request Script Tests Settings
Cookies
Query Params
KEY VALUE DESCRIPTION Bulk Edit
Key Value Description
Body Cookies Headers (19) Test Results (3/3)
200 OK 45 ms 1.57 KB
Save Response
Pretty Raw Preview Visualize JSON
{
"page": 1,
"per_page": 6,
"total": 12,
"total_pages": 2,
"data": [
Find and Replace Console
Cookies Capture requests Bootcamp Runner Trash


Postman
File Edit View Help
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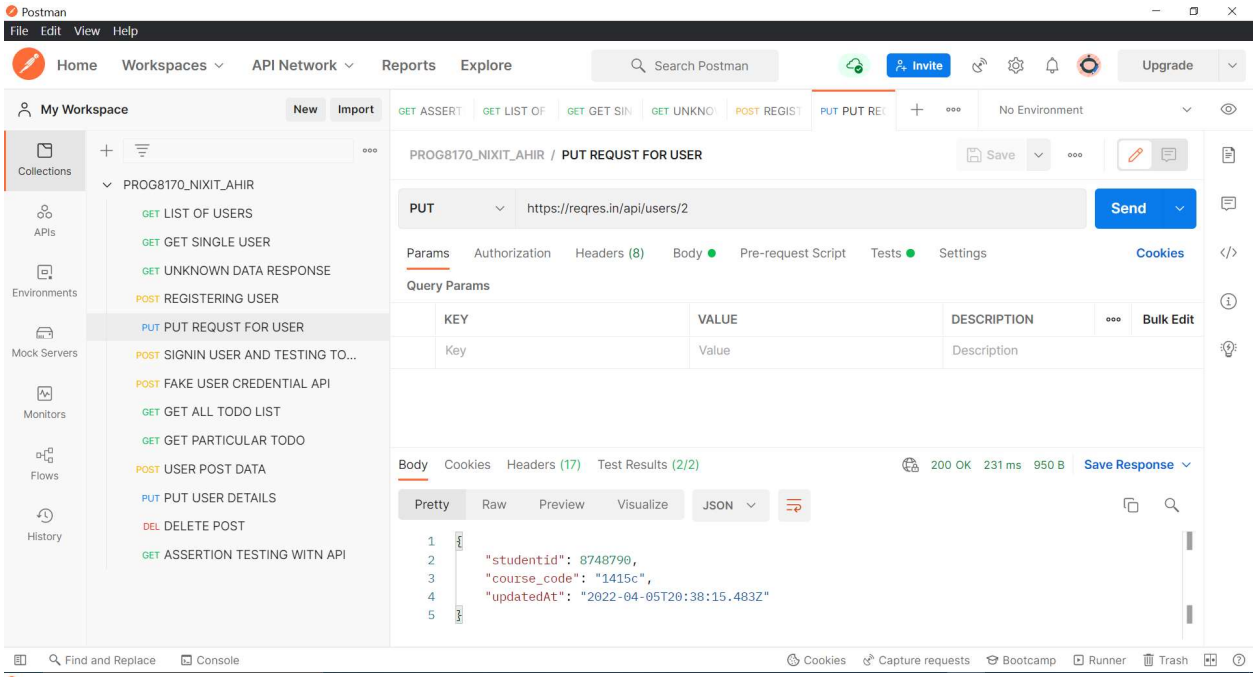
GET GET ALL TODO LIST
GET GET PARTICULAR TODO
POST USER POST DATA
PUT PUT USER DETAILS
DEL DELETE POST
GET ASSERTION TESTING WITN API
PROG8170_NIXIT_AHIR / REGISTERING USER
Save
POST
https://reqres.in/api/users
Send
Params Authorization Headers (8) Body Pre-request Script Tests Settings
Cookies
none form-data x-www-form-urlencoded raw binary GraphQL JSON
Beautify
{
"first_name":"nixit",
"last_name":"ahir",
"studentid":8748790,
"course_code":"1415g"
}
Body Cookies Headers (15) Test Results (3/3)
201 Created 229 ms 945 B
Save Response
Pretty Raw Preview Visualize JSON
"last_name": "ahir",
"studentid": 8748790,
"course_code": "1415g",
"id": "48",
"createdAt": "2022-04-05T20:34:23.954Z"
}
Find and Replace Console
Cookies Capture requests Bootcamp Runner Trash


Postman
File Edit View Help
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My Workspace
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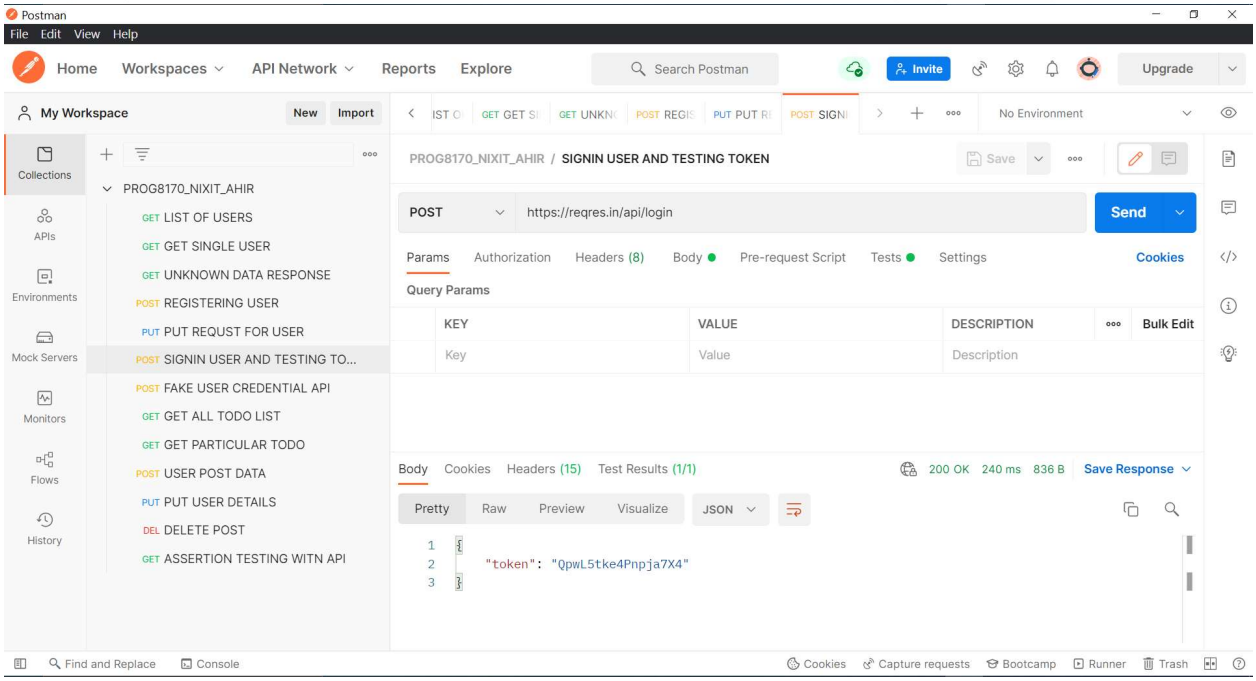
PROG8170_NIXIT_AHIR
GET LIST OF USERS
GET GET SINGLE USER
GET UNKNOWN DATA RESPONSE
POST REGISTERING USER
PUT PUT REQUST FOR USER
POST SIGNIN USER AND TESTING TO...
POST FAKE USER CREDENTIAL API
GET GET ALL TODO LIST
GET GET PARTICULAR TODO
POST USER POST DATA
PUT PUT USER DETAILS
DEL DELETE POST
GET ASSERTION TESTING WITN API
PROG8170_NIXIT_AHIR / PUT REQUST FOR USER
Save
PUT
https://reqres.in/api/users/2
Send
Params Authorization Headers (8) Body Pre-request Script Tests Settings
Cookies
Query Params
KEY VALUE DESCRIPTION Bulk Edit
Key Value Description
Body Cookies Headers (17) Test Results (2/2)
200 OK 231 ms 950 B
Save Response
Pretty Raw Preview Visualize JSON
{
"studentid": 8748790,
"course_code": "1415c",
"updatedAt": "2022-04-05T20:38:15.483Z"
}
Find and Replace Console
Cookies Capture requests Bootcamp Runner Trash


Postman
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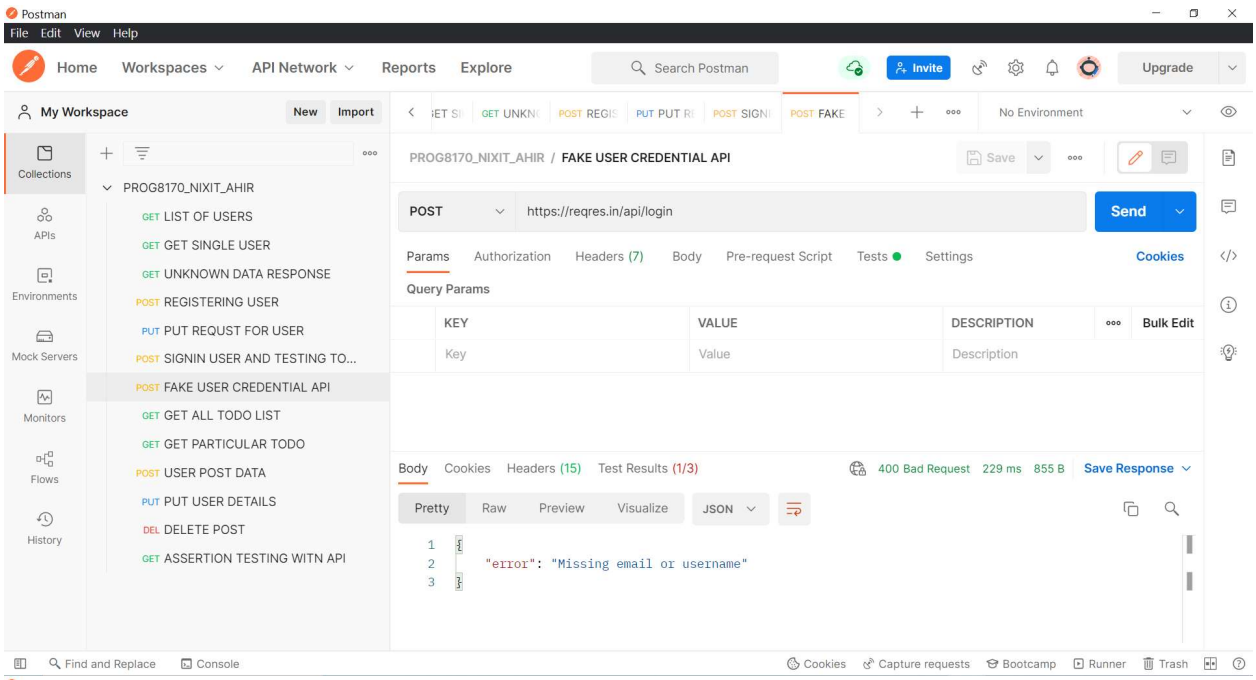
POST REGISTERING USER
PUT PUT REQUST FOR USER
POST SIGNIN USER AND TESTING TO...
POST FAKE USER CREDENTIAL API
GET GET ALL TODO LIST
GET GET PARTICULAR TODO
POST USER POST DATA
PUT PUT USER DETAILS
DEL DELETE POST
GET ASSERTION TESTING WITN API
PROG8170_NIXIT_AHIR / SIGNIN USER AND TESTING TOKEN
Save
POST
https://reqres.in/api/login
Send
Params Authorization Headers (8) Body Pre-request Script Tests Settings
Cookies
Query Params
KEY VALUE DESCRIPTION Bulk Edit
Key Value Description
Body Cookies Headers (15) Test Results (1/1)
200 OK 240 ms 836 B
Save Response
Pretty Raw Preview Visualize JSON
{
"token": "QpwL5tke4Pnpja7X4"
}
Find and Replace Console
Cookies Capture requests Bootcamp Runner Trash


Postman
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POST SIGNIN USER AND TESTING TO...
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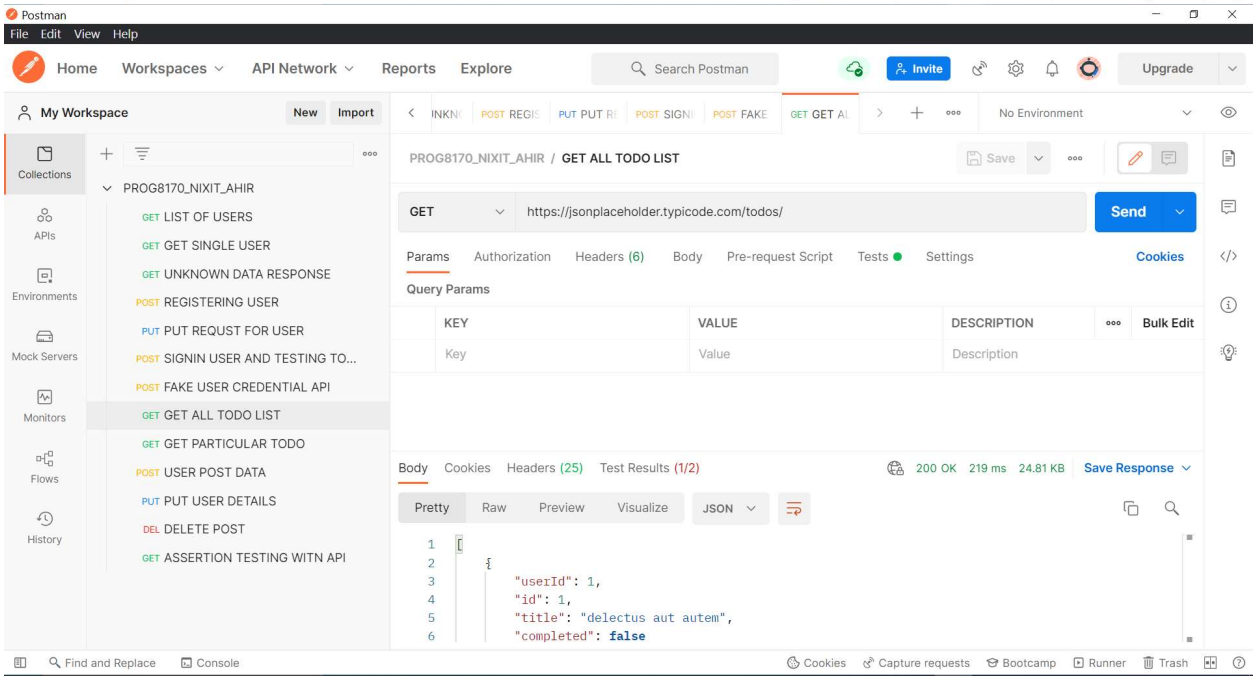
GET GET PARTICULAR TODO
POST USER POST DATA
PUT PUT USER DETAILS
DEL DELETE POST
GET ASSERTION TESTING WITN API
PROG8170_NIXIT_AHIR / FAKE USER CREDENTIAL API
Save
POST
https://reqres.in/api/login
Send
Params Authorization Headers (7) Body Pre-request Script Tests Settings
Cookies
Query Params
KEY VALUE DESCRIPTION Bulk Edit
Key Value Description
Body Cookies Headers (15) Test Results (1/3)
400 Bad Request 229 ms 855 B
Save Response
Pretty Raw Preview Visualize JSON
{
"error": "Missing email or username"
}
Find and Replace Console
Cookies Capture requests Bootcamp Runner Trash


Postman
File Edit View Help
Home Workspaces API Network Reports Explore
Search Postman
Invite
Upgrade
My Workspace
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No Environment
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PROG8170_NIXIT_AHIR
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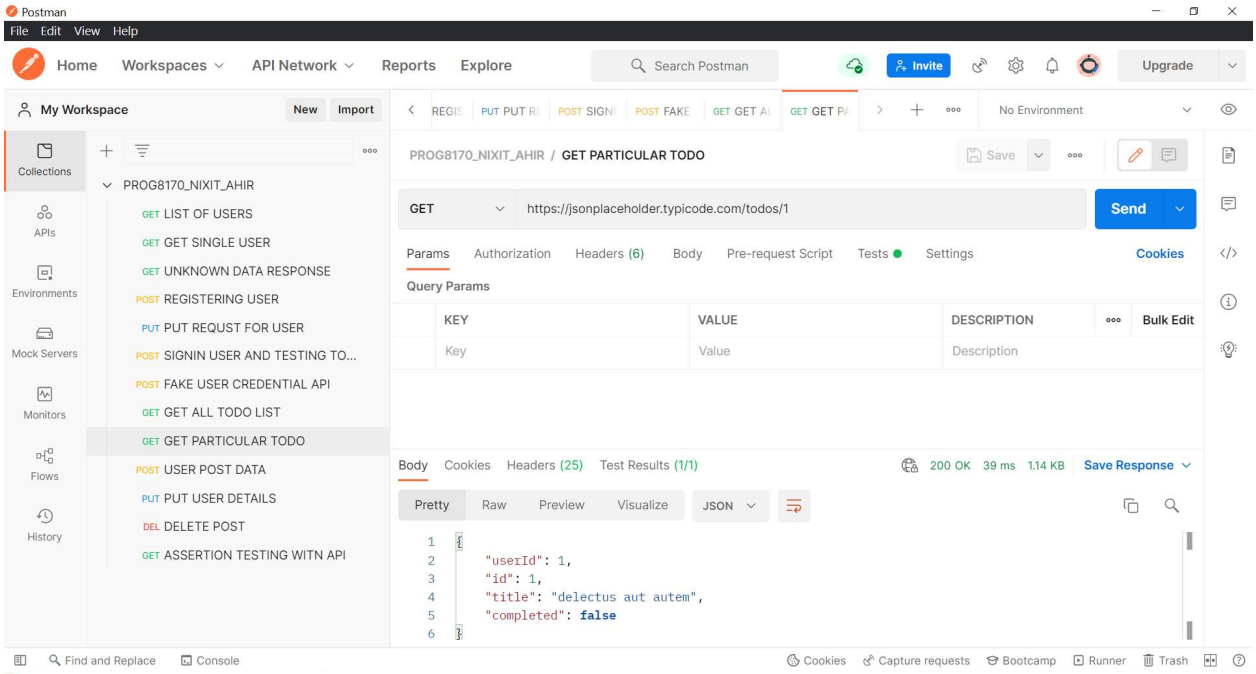
GET GET SINGLE USER
GET UNKNOWN DATA RESPONSE
POST REGISTERING USER
PUT PUT REQUST FOR USER
POST SIGNIN USER AND TESTING TO...
POST FAKE USER CREDENTIAL API
GET GET ALL TODO LIST
GET GET PARTICULAR TODO
POST USER POST DATA
PUT PUT USER DETAILS
DEL DELETE POST
GET ASSERTION TESTING WITN API
PROG8170_NIXIT_AHIR / GET ALL TODO LIST
Save
GET
https://jsonplaceholder.typicode.com/todos/
Send
Params Authorization Headers (6) Body Pre-request Script Tests Settings
Cookies
Query Params
KEY VALUE DESCRIPTION Bulk Edit
Key Value Description
Body Cookies Headers (25) Test Results (1/2)
200 OK 219 ms 24.81 KB
Save Response
Pretty Raw Preview Visualize JSON
[
{
"userId": 1,
"id": 1,
"title": "delectus aut autem",
"completed": false
Find and Replace Console
Cookies Capture requests Bootcamp Runner Trash


Postman
File Edit View Help
Home Workspaces API Network Reports Explore
Search Postman
Invite
Upgrade
My Workspace
New
Import
No Environment
Collections
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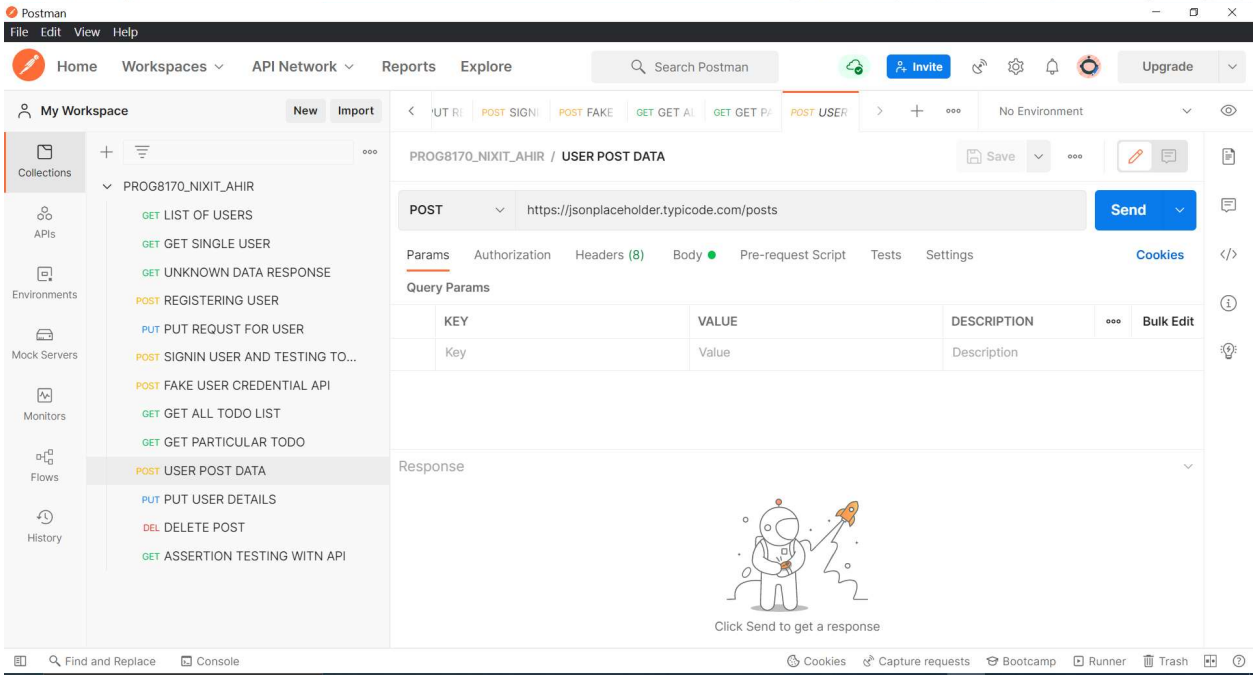
PROG8170_NIXIT_AHIR
GET LIST OF USERS
GET GET SINGLE USER
GET UNKNOWN DATA RESPONSE
POST REGISTERING USER
PUT PUT REQUST FOR USER
POST SIGNIN USER AND TESTING TO...
POST FAKE USER CREDENTIAL API
GET GET ALL TODO LIST
GET GET PARTICULAR TODO
POST USER POST DATA
PUT PUT USER DETAILS
DEL DELETE POST
GET ASSERTION TESTING WITN API
PROG8170_NIXIT_AHIR / GET PARTICULAR TODO
Save
GET
https://jsonplaceholder.typicode.com/todos/1
Send
Params Authorization Headers (6) Body Pre-request Script Tests Settings
Cookies
Query Params
KEY VALUE DESCRIPTION Bulk Edit
Key Value Description
Body Cookies Headers (25) Test Results (1/1)
200 OK 39 ms 1.14 KB Save Response
Pretty Raw Preview Visualize JSON
{
"userId": 1,
"id": 1,
"title": "delectus aut autem",
"completed": false
}
Find and Replace Console
Cookies Capture requests Bootcamp Runner Trash


Postman
File Edit View Help
Home Workspaces API Network Reports Explore
Search Postman
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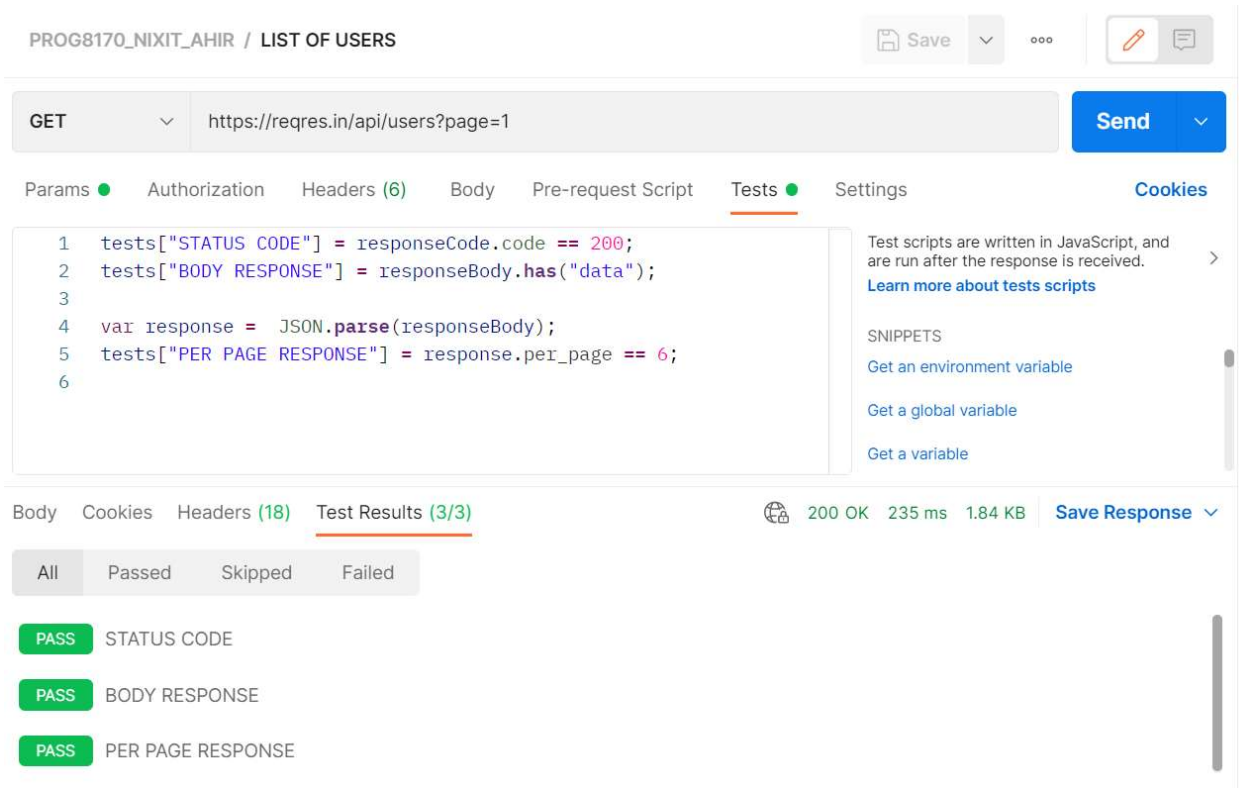
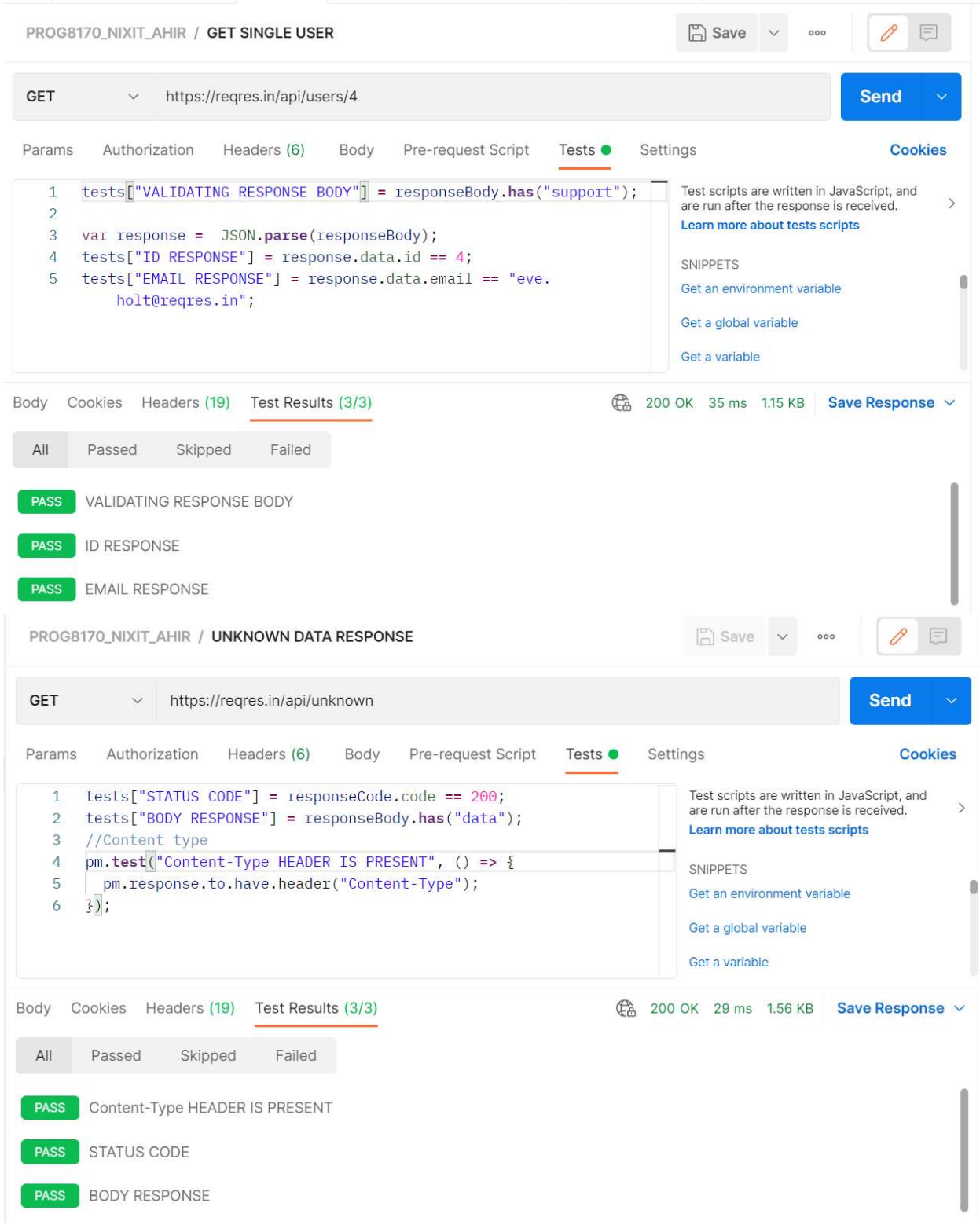
My Workspace
New
Import
No Environment
Collections
APIs
Environments
Mock Servers
Monitors
Flows
History
PROG8170_NIXIT_AHIR
GET LIST OF USERS
GET GET SINGLE USER
GET UNKNOWN DATA RESPONSE
POST REGISTERING USER
PUT PUT REQUST FOR USER
POST SIGNIN USER AND TESTING TO...
POST FAKE USER CREDENTIAL API
GET GET ALL TODO LIST
GET GET PARTICULAR TODO
POST USER POST DATA
PUT PUT USER DETAILS
DEL DELETE POST
GET ASSERTION TESTING WITN API
PROG8170_NIXIT_AHIR / USER POST DATA
Save
POST
https://jsonplaceholder.typicode.com/posts
Send
Params Authorization Headers (8) Body Pre-request Script Tests Settings
Cookies
Query Params
KEY VALUE DESCRIPTION Bulk Edit
Key Value Description
Response
Click Send to get a response
Find and Replace Console
Cookies Capture requests Bootcamp Runner Trash

Create fifteen (15) unique passing tests that assert on at least one element. Again, using a variety of the available routes

Output:




PROG8170_NIXIT_AHIR / GET SINGLE USER
Save
GET
https://reqres.in/api/users/4
Send
Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies
1 tests["VALIDATING RESPONSE BODY"] = responseBody.has("support");
2
3 var response = JSON.parse(responseBody);
4 tests["ID RESPONSE"] = response.data.id == 4;
5 tests["EMAIL RESPONSE"] = response.data.email == "eve.
holt@reqres.in";
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 (19) Test Results (3/3)
200 OK 35 ms 1.15 KB
Save Response
All Passed Skipped Failed
PASS VALIDATING RESPONSE BODY
PASS ID RESPONSE
PASS EMAIL RESPONSE
PROG8170_NIXIT_AHIR / UNKNOWN DATA RESPONSE
Save
GET
https://reqres.in/api/unknown
Send
Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies
1 tests["STATUS CODE"] = responseCode.code == 200;
2 tests["BODY RESPONSE"] = responseBody.has("data");
3 //Content type
4 pm.test("Content-Type HEADER IS PRESENT", () => {
5 pm.response.to.have.header("Content-Type");
6 });
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 (19) Test Results (3/3)
200 OK 29 ms 1.56 KB
Save Response
All Passed Skipped Failed
PASS Content-Type HEADER IS PRESENT
PASS STATUS CODE
PASS BODY RESPONSE

PROG8170_NIXIT_AHIR / REGISTERING USER

Save

POST https://reqres.in/api/users

Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

```
1  tests["STATUS CODE"] = responseCode.code == 201;
2
3  var response =  JSON.parse(responseBody);
4  tests["USER HAS FIRST NAME"] = response.first_name == "nixit";
5  tests["USER HAS LAST NAME"] = response.last_name == "ahir";
6
```

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 (15) Test Results (3/3) 201 Created 229 ms 945 B Save Response

All Passed Skipped Failed

PASS STATUS CODE

PASS USER HAS FIRST NAME

PASS USER HAS LAST NAME

PROG8170_NIXIT_AHIR / PUT REQUST FOR USER

Save

PUT https://reqres.in/api/users/2

Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

```
1  pm.test("Status code is 200", function () {
2      pm.response.to.have.status(200);
3  });
4
5  pm.test("Response has course code",() => {
6      pm.expect(pm.response.text()).to.include("course_code");
7  });
```

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

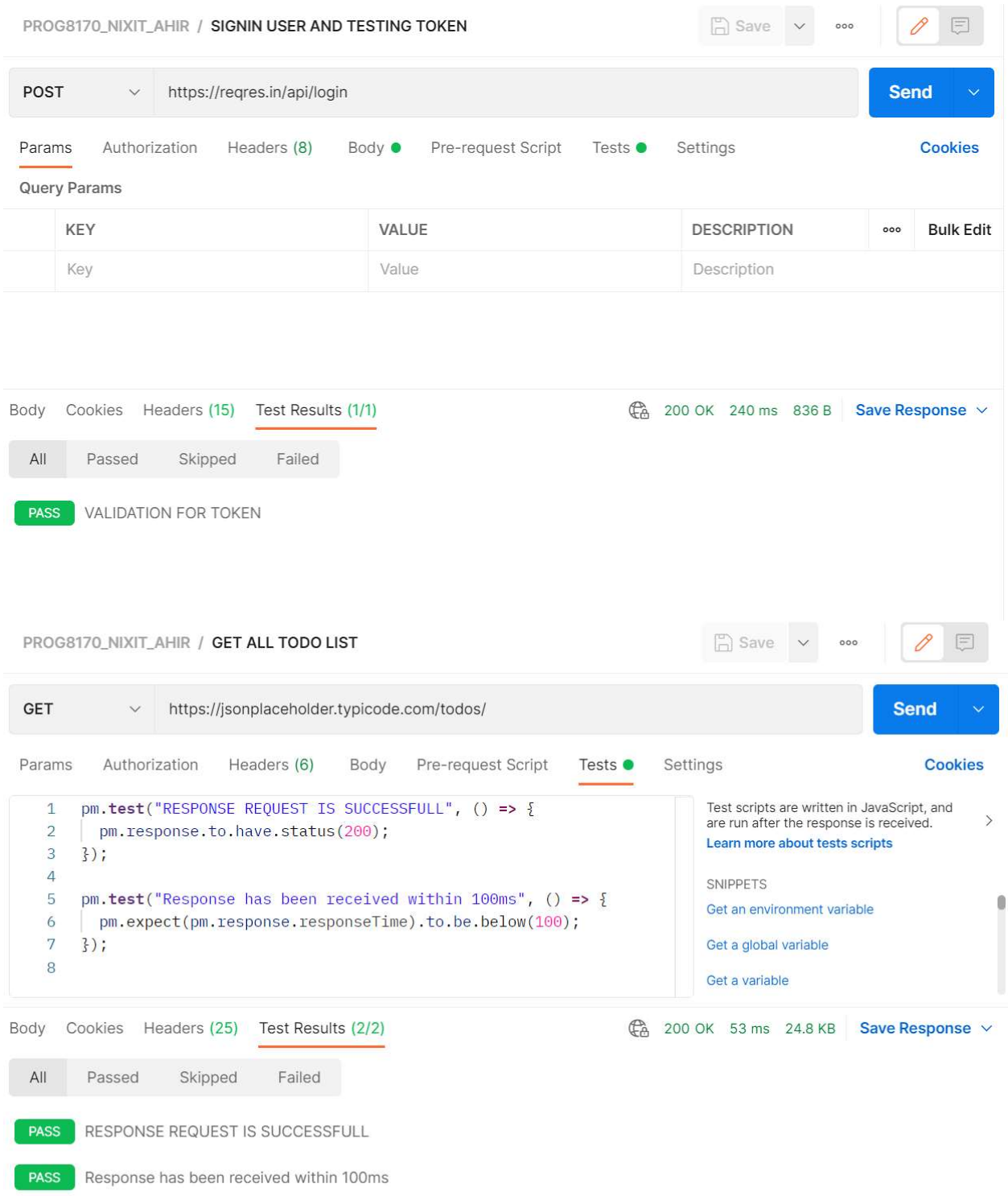
SNIPPETS
Get an environment variable
Get a global variable
Get a variable

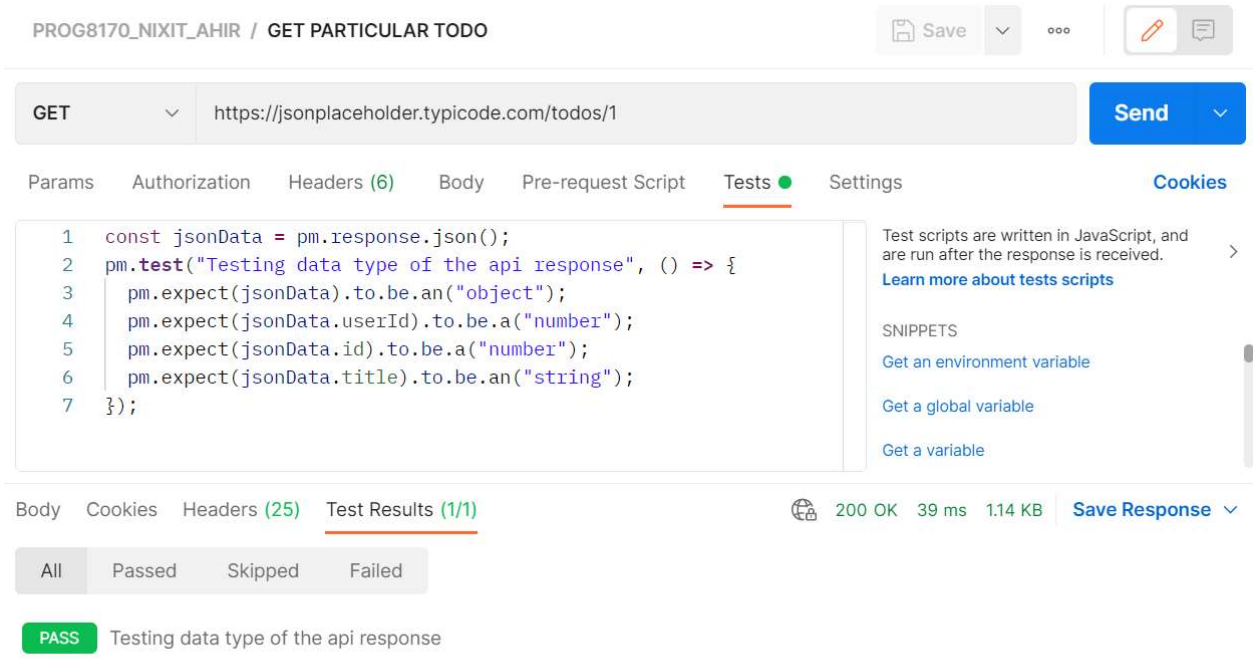
Body Cookies Headers (17) Test Results (2/2) 200 OK 231 ms 950 B Save Response

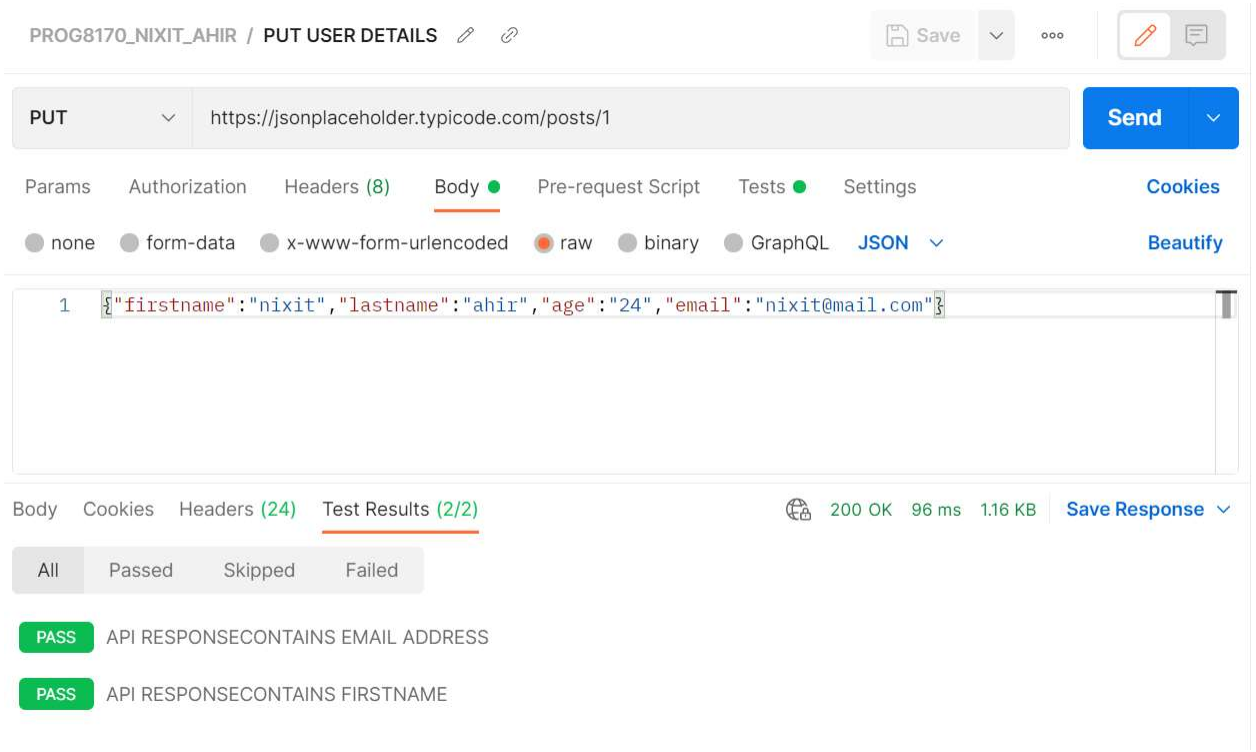
All Passed Skipped Failed

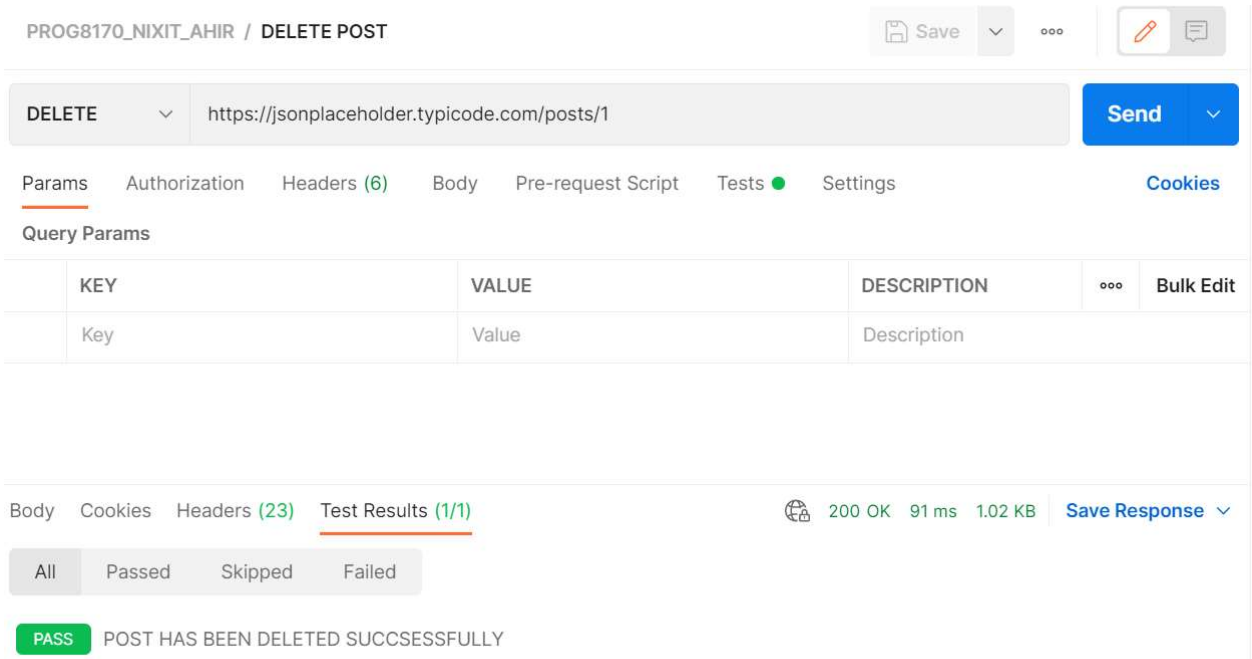
PASS Status code is 200

PASS Response has course code


PROG8170_NIXIT_AHIR / SIGNIN USER AND TESTING TOKEN
Save
POST
https://reqres.in/api/login
Send
Params
Authorization
Headers (8)
Body
Pre-request Script
Tests
Settings
Cookies
Query Params
KEY
VALUE
DESCRIPTION
Bulk Edit
Key
Value
Description
Body
Cookies
Headers (15)
Test Results (1/1)
200 OK
240 ms
836 B
Save Response
All
Passed
Skipped
Failed
PASS
VALIDATION FOR TOKEN
PROG8170_NIXIT_AHIR / GET ALL TODO LIST
Save
GET
https://jsonplaceholder.typicode.com/todos/
Send
Params
Authorization
Headers (6)
Body
Pre-request Script
Tests
Settings
Cookies
1 pm.test("RESPONSE REQUEST IS SUCCESSFULL", () => {
2 pm.response.to.have.status(200);
3 });
4
5 pm.test("Response has been received within 100ms", () => {
6 pm.expect(pm.response.responseTime).to.be.below(100);
7 });
8
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 (25)
Test Results (2/2)
200 OK
53 ms
24.8 KB
Save Response
All
Passed
Skipped
Failed
PASS
RESPONSE REQUEST IS SUCCESSFULL
PASS
Response has been received within 100ms

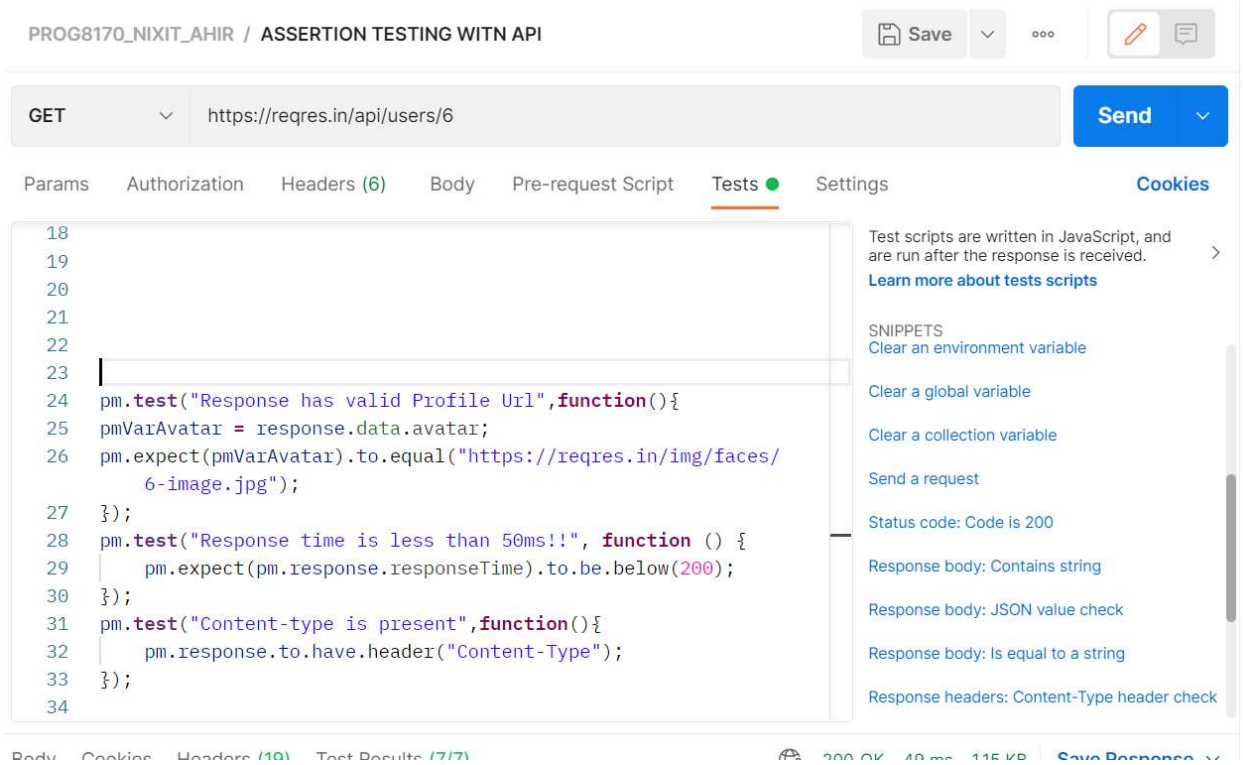

PROG8170_NIXIT_AHIR / GET PARTICULAR TODO
Save
GET
https://jsonplaceholder.typicode.com/todos/1
Send
Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies
1 const jsonData = pm.response.json();
2 pm.test("Testing data type of the api response", () => {
3 pm.expect(jsonData).to.be.an("object");
4 pm.expect(jsonData.userId).to.be.a("number");
5 pm.expect(jsonData.id).to.be.a("number");
6 pm.expect(jsonData.title).to.be.an("string");
7 });
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 (25) Test Results (1/1)
200 OK 39 ms 1.14 KB
Save Response
All Passed Skipped Failed
PASS Testing data type of the api response


PROG8170_NIXIT_AHIR / PUT USER DETAILS
Save
PUT
https://jsonplaceholder.typicode.com/posts/1
Send
Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies
none form-data x-www-form-urlencoded raw binary GraphQL JSON
Beautify
1 {"firstname":"nixit","lastname":"ahir","age":"24","email":"nixit@mail.com"}
Body Cookies Headers (24) Test Results (2/2)
200 OK 96 ms 1.16 KB
Save Response
All Passed Skipped Failed
PASS API RESPONSECONTAINS EMAIL ADDRESS
PASS API RESPONSECONTAINS FIRSTNAME


PROG8170_NIXIT_AHIR / DELETE POST
Save
DELETE
https://jsonplaceholder.typicode.com/posts/1
Send
Params
Authorization
Headers (6)
Body
Pre-request Script
Tests
Settings
Cookies
Query Params
KEY
VALUE
DESCRIPTION
Bulk Edit
Key
Value
Description
Body
Cookies
Headers (23)
Test Results (1/1)
200 OK
91 ms
1.02 KB
Save Response
All
Passed
Skipped
Failed
PASS
POST HAS BEEN DELETED SUCCSESSFULLY

Create five (5) unique passing tests that assert on more than one element

Output:



PROG8170_NIXIT_AHIR / ASSERTION TESTING WITN API

Save

GET https://reqres.in/api/users/6 Send

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

```
var response =  JSON.parse(responseBody);
pm.test("Response has valid Id",function(){
pmVarId = response.data.id;
pm.expect(pmVarId).to.equal(6);
});
pm.test("Response has valid Email",function(){
pmVarEmail = response.data.email;
pm.expect(pmVarEmail).to.equal("tracey.ramos@reqres.in");
});
pm.test("Response has valid first_name",function(){
pmVarfirst_name = response.data.first_name;
pm.expect(pmVarfirst_name).to.equal("Tracey");
});
pm.test("Response has valid last_name",function(){
pmVarlast_name = response.data.last_name;
pm.expect(pmVarlast_name).to.equal("Ramos");
});
```

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

SNIPPETS
Clear an environment variable
Clear a global variable
Clear a collection variable
Send a request
Status code: Code is 200
Response body: Contains string
Response body: JSON value check
Response body: Is equal to a string
Response headers: Content-Type header check

PROG8170_NIXIT_AHIR / ASSERTION TESTING WITN API

Save

GET https://reqres.in/api/users/6 Send

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

Body Cookies Headers (19) Test Results (7/7) 200 OK 49 ms 1.15 KB Save Response

All Passed Skipped Failed

PASS Response has valid Id

PASS Response has valid Email

PASS Response has valid first_name

PASS Response has valid last_name

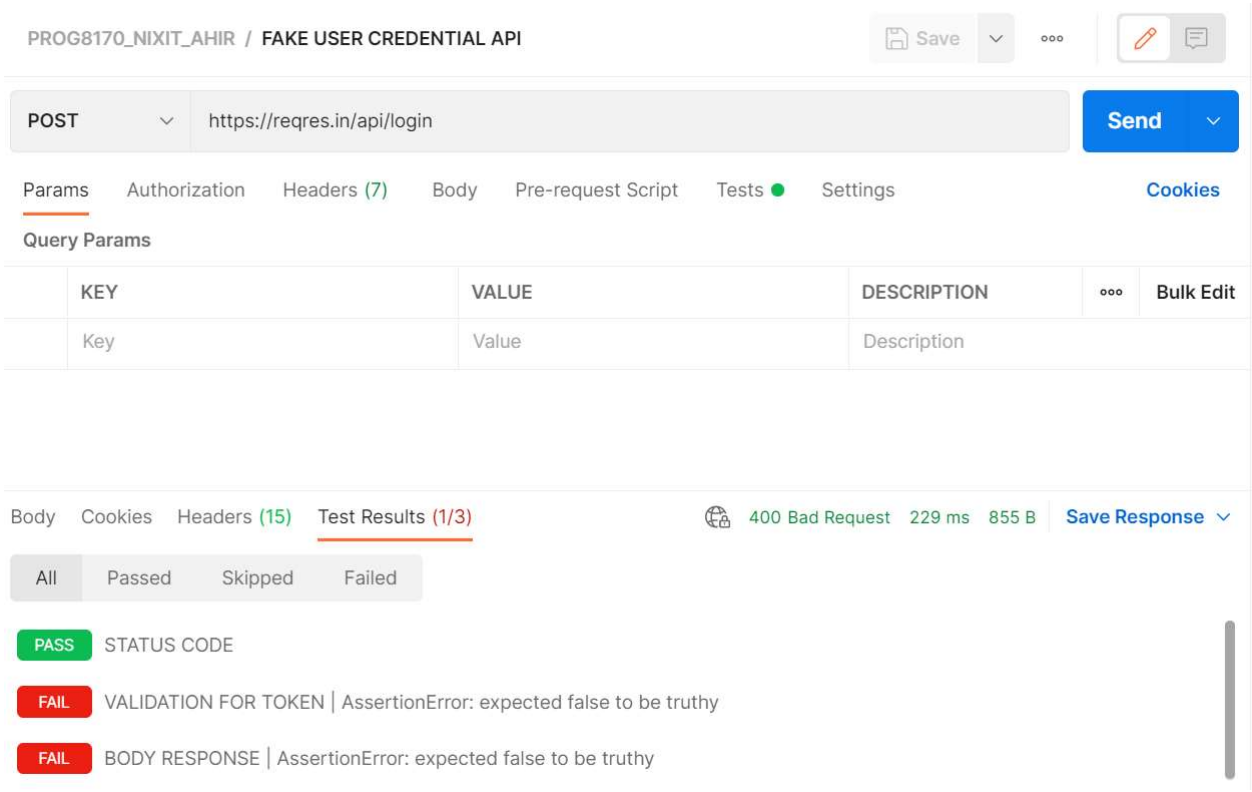
PASS Response has valid Profile Url

PASS Response time is less than 50ms!!

PASS Content-type is present

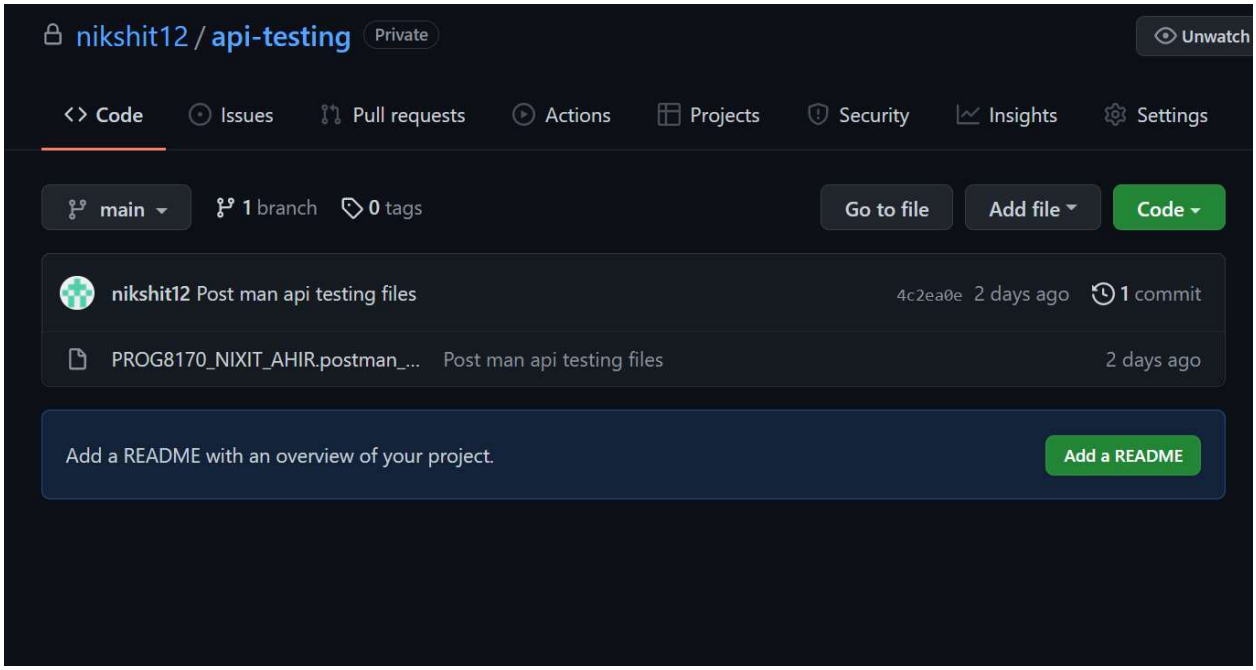
Create at least one (1) failing test

Output:



Github

Output:



References

Writing tests | Postman Learning Center

Writing tests | Postman Learning Center. (2022). Retrieved 5 April 2022, from https://learning.postman.com/docs/writing-scripts/test-scripts/

Writing tests | Postman Learning Center

Writing tests | Postman Learning Center. (2022). Retrieved 5 April 2022, from https://learning.postman.com/docs/writing-scripts/test-scripts/

JSONPlaceholder - Free Fake REST API

JSONPlaceholder - Free Fake REST API. (2022). Retrieved 5 April 2022, from https://jsonplaceholder.typicode.com/

Reqres - A hosted REST-API ready to respond to your AJAX requests

Reqres - A hosted REST-API ready to respond to your AJAX requests . (2022). Retrieved 5 April 2022, from https://reqres.in/