Serenity VS Karate Workshop

By: Jonathan Vargas 🐢 Ococho

Requests to be considered

From the requests offered in the REQRES API (https://reqres.in) 4 are selected corresponding to CRUD functions for a 'user'.

Where the slug '2' of RUD functions is the user ID, and CU functions need a body containing a JSON with user information, like this.

CR functions will be automated with Serenity, and UD ones with Karate.

Postman tests

Create

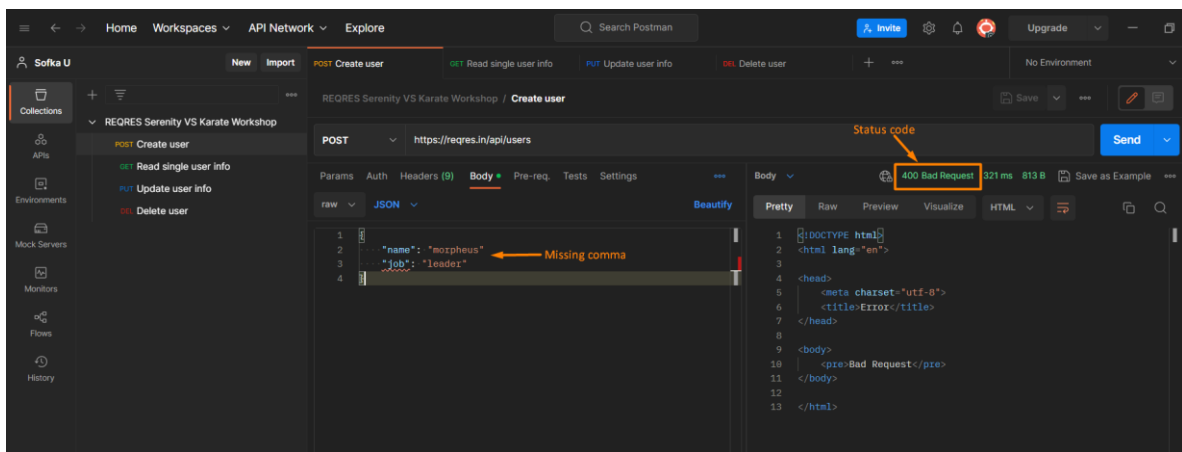There are 2 scenarios, when a valid JSON is sent and when it is not.

In the first, an ID is generated, and the status code corresponds to 201 Created. This is indifferent to the attributes that the JSON may have.

In the other, it returns an HTML file and a status code 400 Bad Request. If a comma is missing, this scenario is generated, for example.
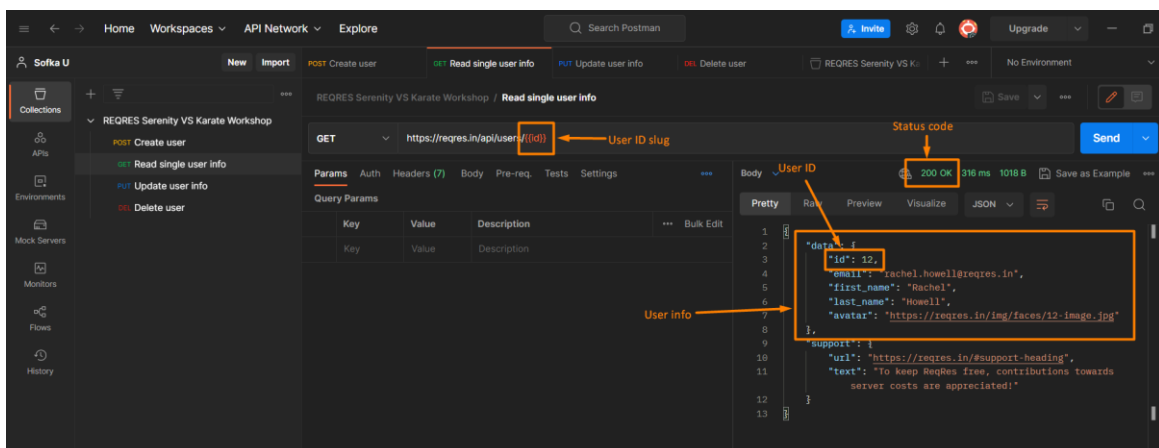
First scenario
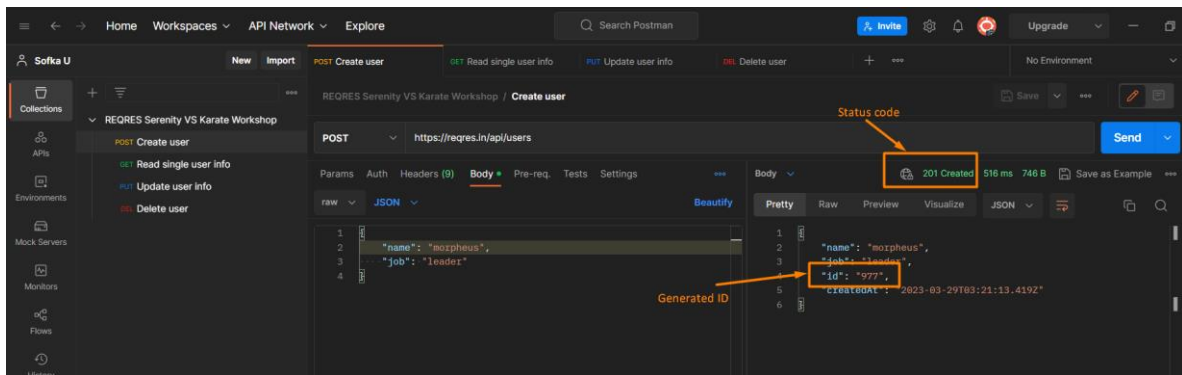
Second scenario

Read

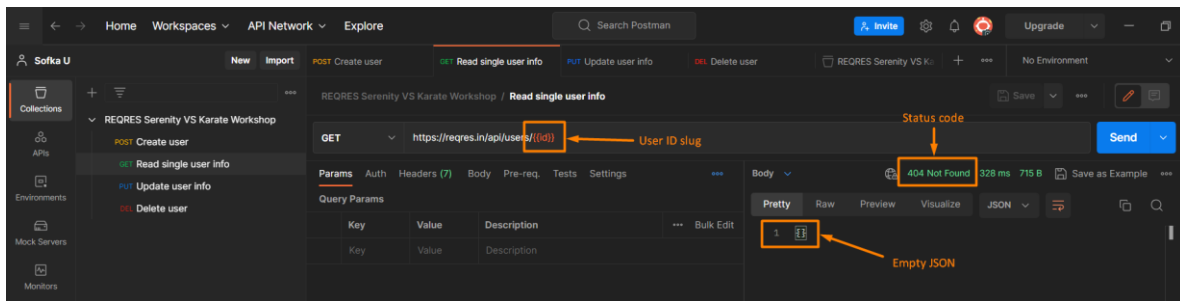There are 2 scenarios, when a user exists and when it doesn't.

The first one returns a JSON with the user information and a 200 OK status code.

In the second scenario, an empty JSON and a status code 400 Not Found is returned.

First scenario

Second scenario

Update

In the same way as in the Create function, the attributes contained in the JSON sent are irrelevant. Therefore, the same 2 scenarios are generated. In addition, the user ID is also indifferent.

First scenario
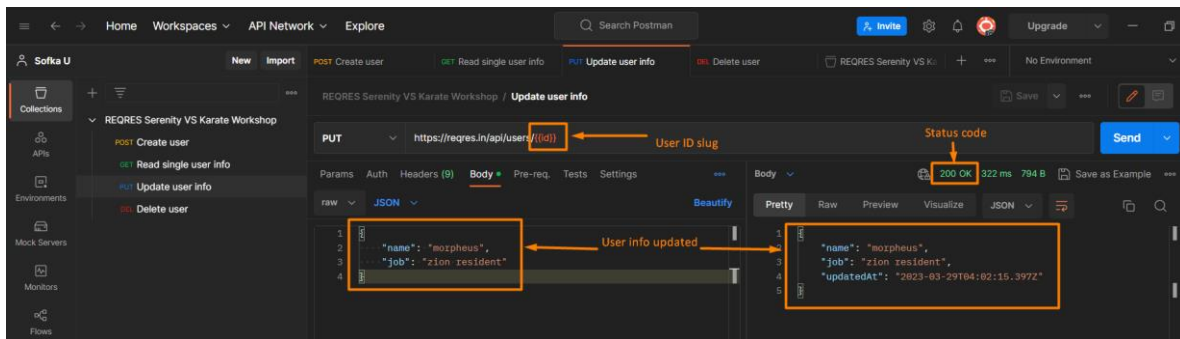
Second scenario
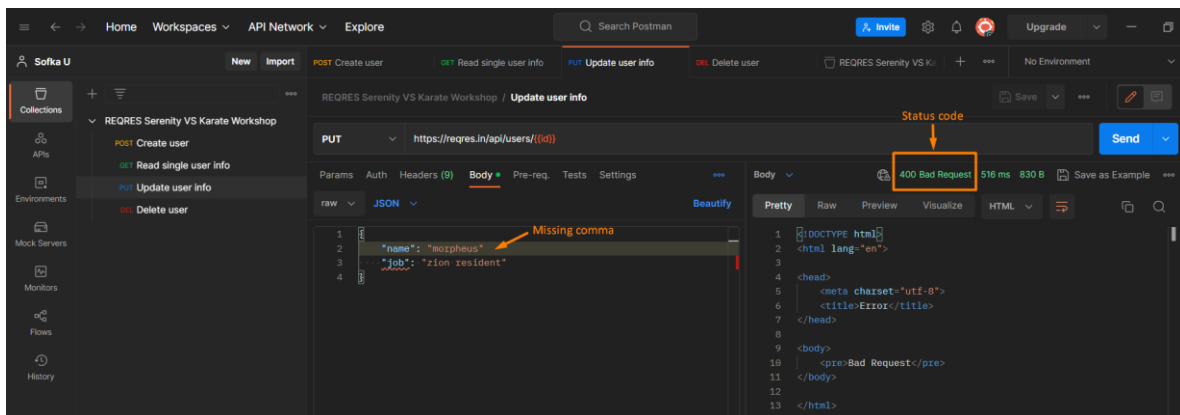
Delete

For the Delete function there is only one scenario, since the user ID is also indifferent, so always a status code 204 No Content and no content body is received.

Karate and Serenity Reports

Serenity

Overall

Functional Coverage Details

Features

Search: [   ]

Feature	Scenarios	Test Cases	% Pass	Result	Coverage
Create a new user	1	2	100%	✓	
Read user info	1	3	100%	✓	

Tags

🏷 Read 3   🏷 Create 2

Context

🏷 Windows 5

Test Results: All Tests

5 tests

⌂ Summary   ☺ Test Results

⚙ Automated Tests
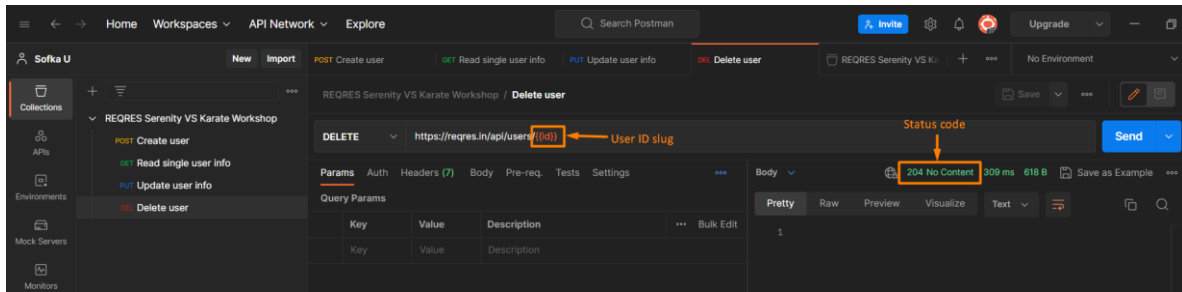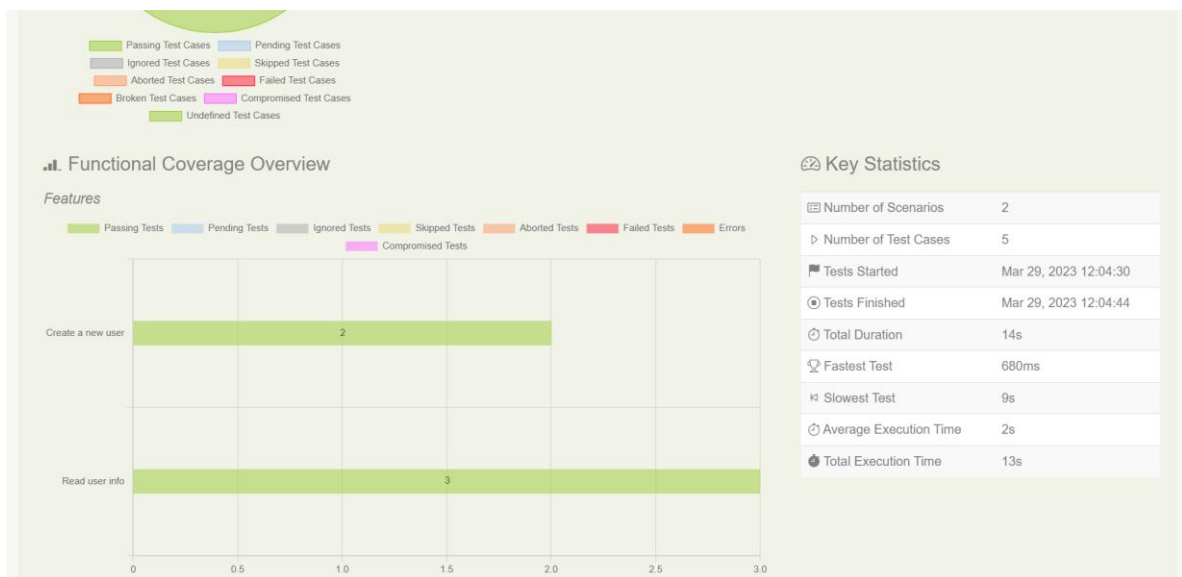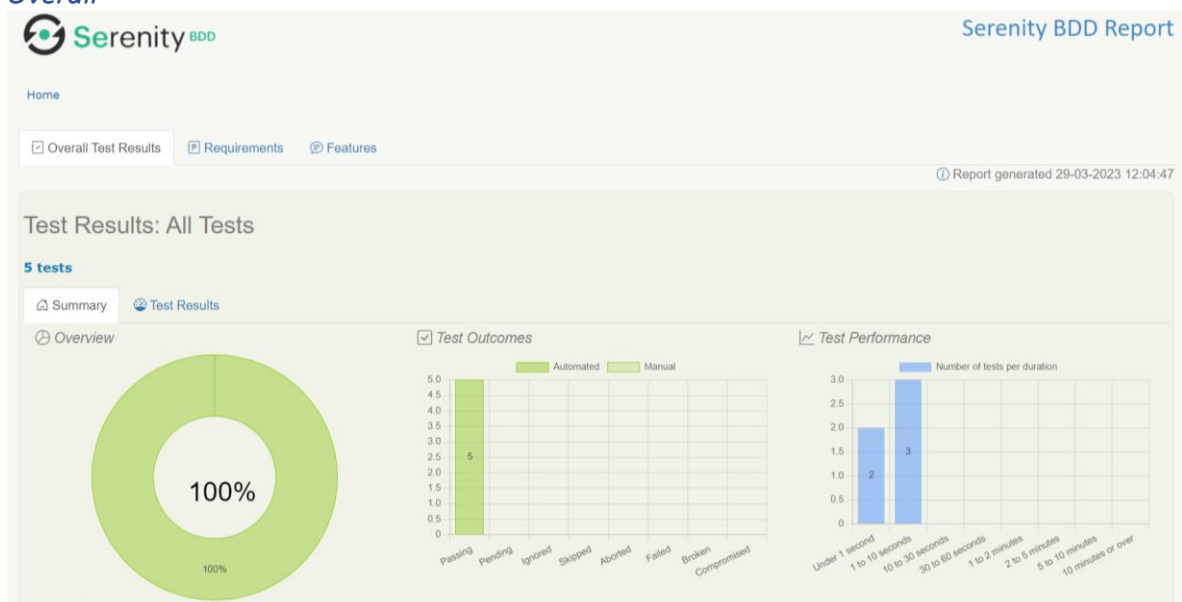
Show [10 ⌄] entries   Filter [   ]

Feature	Scenario	Context	Steps	Started	Total Duration	Result
Create a new user	▦ 1: Create a new user JSON=valid, code=201, ID=not null	⊞	4	12:04:30	9s 125ms	✓
Create a new user	▦ 2: Create a new user JSON=invalid, code=400, ID=null	⊞	4	12:04:40	1s 579ms	✓
Read user info	▦ 1: Read some users info ID=1, code=200, JSON=not empty	⊞	4	12:04:41	1s 264ms	✓
Read user info	▦ 2: Read some users info ID=0, code=404, JSON=empty	⊞	4	12:04:43	789ms	✓
Read user info	▦ 3: Read some users info ID=-1, code=404, JSON=empty	⊞	4	12:04:43	680ms	✓

Showing 1 to 5 of 5 entries   Previous [1] Next

@Create

💬 Create A New User   🏷 Windows 🏷 Create ⊞

✓   **Create a new user**

👥 [Cast]

Scenario Outline

```
Given I have access to REQRES API server
When I try to create a new user with '<JSON>' JSON
Then I will see the status code <code>
And I will receive a user ID '<ID>'
```

Examples:

#	JSON	Code	ID
1	valid	201	not null
2	invalid	400	null

Steps	Outcome	⏱
▼ 1: Create a new user ({JSON=valid, code=201, ID=not null})	SUCCESS	9s 125ms
✔ Given I have access to REQRES API server	SUCCESS	104ms
▼ When I try to create a new user with 'valid' JSON	SUCCESS	6s 573ms
▼ Reqres admin create user	SUCCESS	5s 978ms
▼ REQRES Admin executes a POST on the resource /api/users/	SUCCESS	5s 806ms
✔ POST https://reqres.in/api/users/ REST Query	SUCCESS	001ms
▼ Then I will see the status code 201	SUCCESS	319ms
✔ Status code	SUCCESS	105ms
▼ And I will receive a user ID 'not null'	SUCCESS	1s 964ms
✔ User created	SUCCESS	1s 918ms

Steps	Outcome	⏱
▶ 1: Create a new user ({JSON=valid, code=201, ID=not null})	SUCCESS	9s 125ms
▼ 2: Create a new user ({JSON=invalid, code=400, ID=null})	SUCCESS	1s 579ms
✔ Given I have access to REQRES API server	SUCCESS	021ms
▼ When I try to create a new user with 'invalid' JSON	SUCCESS	1s 244ms
▼ Reqres admin create user	SUCCESS	1s 153ms
▼ REQRES Admin executes a POST on the resource /api/users/	SUCCESS	1s 077ms
✔ POST https://reqres.in/api/users/ REST Query	SUCCESS	
▼ Then I will see the status code 400	SUCCESS	030ms
✔ Status code	SUCCESS	008ms
▼ And I will receive a user ID 'null'	SUCCESS	261ms
✔ User created	SUCCESS	212ms
	SUCCESS	11.12s

@Read

💬 Read User Info   🏷 Read 🏷 Windows ⊞

✔ **Read some users info**

👥 Cast

Scenario Outline

Given I have access to the REQRES API server
When I try to read user '<ID>' info
Then I will see a status code <code>
And I will receive a JSON '<JSON>' with user '<ID>' info

Examples:

#	ID	Code	JSON
1	1	200	not empty
2	0	404	empty
3	-1	404	empty

Steps	Outcome	⏱
▼ 1: Read some users info ({ID=1, code=200, JSON=not empty})	SUCCESS	1s 264ms
✔ Given I have access to the REQRES API server	SUCCESS	026ms
▼ When I try to read user '1' info	SUCCESS	1s 020ms
▼ Reqres admin read info	SUCCESS	908ms
▼ REQRES Admin executes a GET on the resource /api/users/1	SUCCESS	805ms
✔ GET https://reqres.in/api/users/1 `REST Query`	SUCCESS	
▼ Then I will see a status code 200	SUCCESS	061ms
✔ Status code	SUCCESS	016ms
▼ And I will receive a JSON 'not empty' with user '1' info	SUCCESS	123ms
✔ User info	SUCCESS	084ms

Steps	Outcome	⏱
▶ 1: Read some users info ({ID=1, code=200, JSON=not empty})	SUCCESS	1s 264ms
▼ 2: Read some users info ({ID=0, code=404, JSON=empty})	SUCCESS	789ms
✔ Given I have access to the REQRES API server	SUCCESS	059ms
▼ When I try to read user '0' info	SUCCESS	630ms
▼ Reqres admin read info	SUCCESS	587ms
▼ REQRES Admin executes a GET on the resource /api/users/0	SUCCESS	566ms
✔ GET https://reqres.in/api/users/0 `REST Query`	SUCCESS	
▼ Then I will see a status code 404	SUCCESS	036ms
✔ Status code	SUCCESS	014ms
▼ And I will receive a JSON 'empty' with user '0' info	SUCCESS	033ms
✔ User created	SUCCESS	017ms

Steps	Outcome	⏱
▶ 1: Read some users info ({ID=1, code=200, JSON=not empty})	SUCCESS	1s 264ms
▶ 2: Read some users info ({ID=0, code=404, JSON=empty})	SUCCESS	789ms
▼ 3: Read some users info ({ID=-1, code=404, JSON=empty})	SUCCESS	680ms
✔ Given I have access to the REQRES API server	SUCCESS	008ms
▼ When I try to read user '-1' info	SUCCESS	582ms
▼ Reqres admin read info	SUCCESS	562ms
▼ REQRES Admin executes a GET on the resource /api/users/-1	SUCCESS	523ms
✔ GET https://reqres.in/api/users/-1 `REST Query`	SUCCESS	
▼ Then I will see a status code 404	SUCCESS	027ms
✔ Status code	SUCCESS	010ms
▼ And I will receive a JSON 'empty' with user '-1' info	SUCCESS	046ms
✔ User created	SUCCESS	025ms
	SUCCESS	2.86s