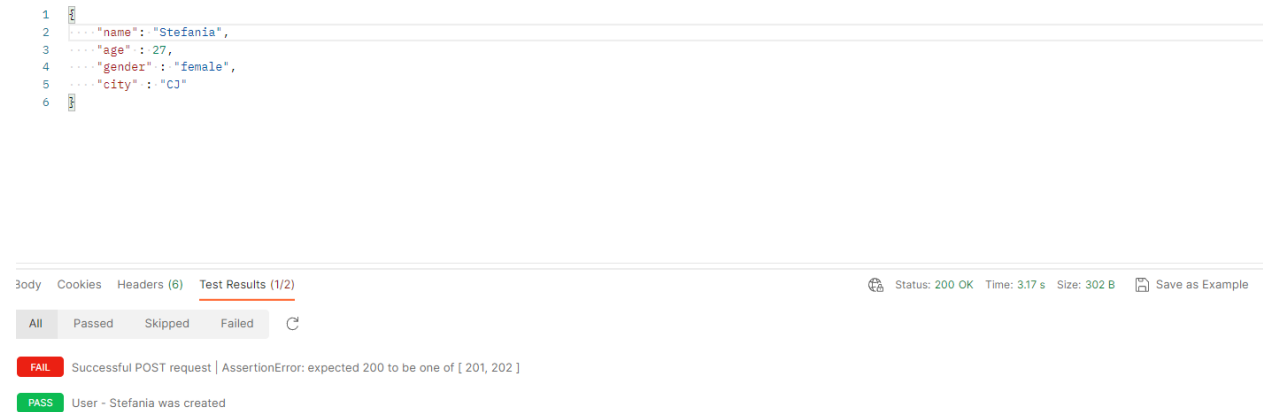# API testing with Postman

Assignment

Stefania Pruteanu

API for practice. Lesson 17.docx create POST, GET, PATCH, DELETE requests with:

- variables in the body of the request;
- variables in the request parameters;
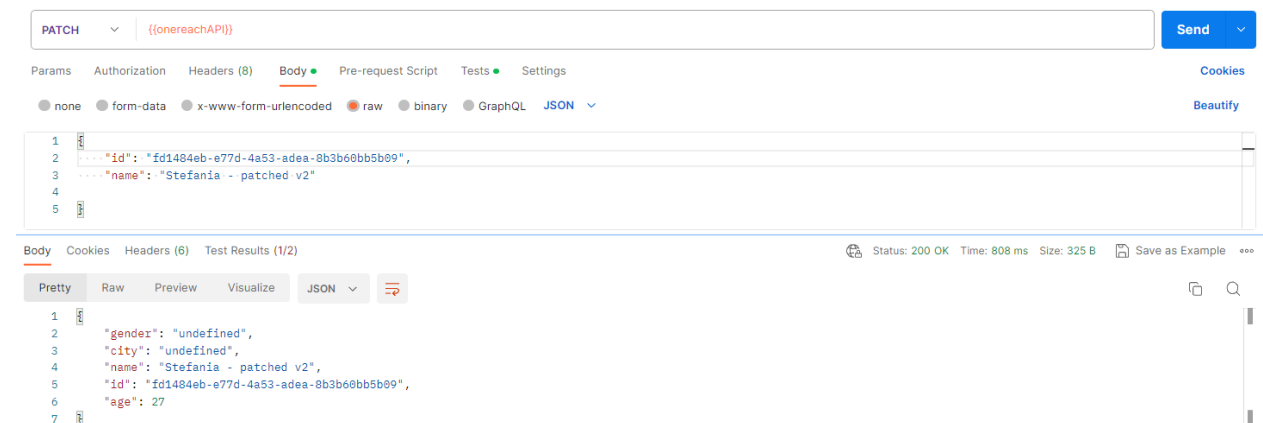- at least 2 tests for each request.

POST

BUG1 - POST Request method expected to have status 201, but got 200 OK - in case it was in requirements..

```
1  {
2  ····"name": "Stefania",
3  ····"age" : 27,
4  ····"gender" : "female",
5  ····"city" : "CJ"
6  }
```

Body   Cookies   Headers (6)   Test Results (1/2)   Status: 200 OK   Time: 3.17 s   Size: 302 B   Save as Example

All   Passed   Skipped   Failed

FAIL   Successful POST request | AssertionError: expected 200 to be one of [201, 202]

PASS   User - Stefania was created

PATCH

BUG2 - PATCH Request overrides rest of user data to 'undefined', checked with PUT and GET to verify better:

PATCH ∨   {{onereachAPI}}   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  {
2  ····"id": "fd1484eb-e77d-4a53-adea-8b3b60bb5b09",
3  ····"name": "Stefania · patched·v2"
4
5  }
```

Body   Cookies   Headers (6)   Test Results (1/2)   Status: 200 OK   Time: 808 ms   Size: 325 B   Save as Example

Pretty   Raw   Preview   Visualize   JSON ∨

```
1  {
2     "gender": "undefined",
3     "city": "undefined",
4     "name": "Stefania - patched v2",
5     "id": "fd1484eb-e77d-4a53-adea-8b3b60bb5b09",
6     "age": 27
7  }
```
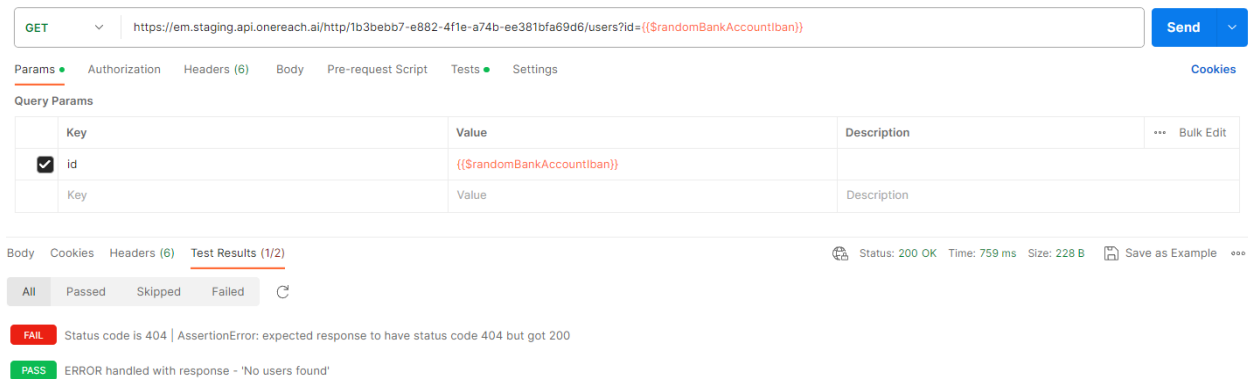
By definition
"*PATCH is a method of modifying resources where the client sends partial data that is to be updated without modifying the entire data.*"

GET

BUG3 - GET Request returns status 200 OK when no existing ID is searched for

| GET ⌄ | https://em.staging.api.onereach.ai/http/1b3bebb7-e882-4f1e-a74b-ee381bfa69d6/users?id={{$randomBankAccountIban}} | Send ⌄ |

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

Query Params

	Key	Value	Description	⋯ Bulk Edit
☑	id	{{$randomBankAccountIban}}		
	Key	Value	Description	

Body   Cookies   Headers (6)   Test Results (1/2)   Status: 200 OK   Time: 759 ms   Size: 228 B   Save as Example ⋯
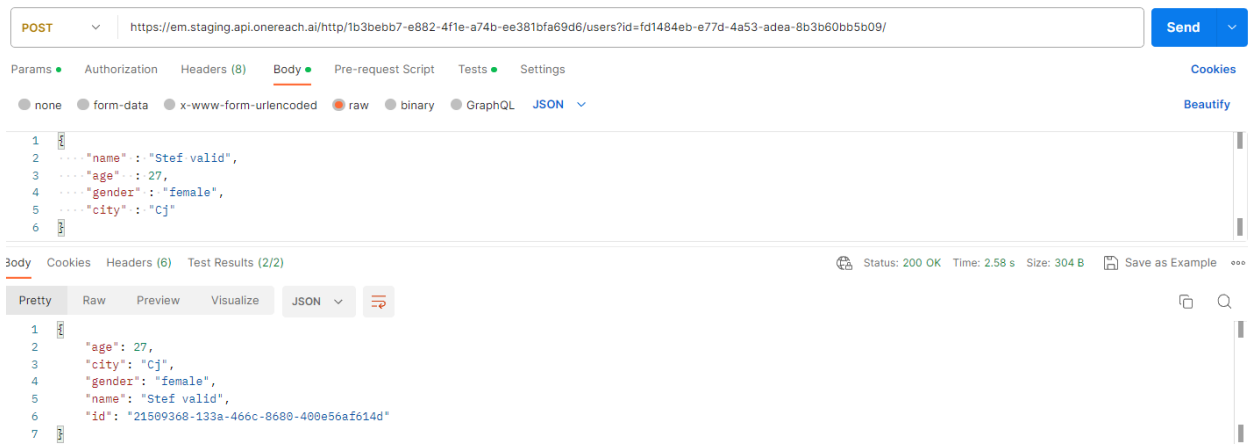
All   Passed   Skipped   Failed   ↻

FAIL   Status code is 404 | AssertionError: expected response to have status code 404 but got 200

PASS   ERROR handled with response - 'No users found'

GET

BUG4 - GET Request returns status 200 OK outside specified endpoint /users, I can create a user without it

| POST ⌄ | https://em.staging.api.onereach.ai/http/1b3bebb7-e882-4f1e-a74b-ee381bfa69d6/users?id=fd1484eb-e77d-4a53-adea-8b3b60bb5b09/ | 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  {
2      "name" : "Stef valid",
3      "age" : 27,
4      "gender" : "female",
5      "city" : "Cj"
6  }
```
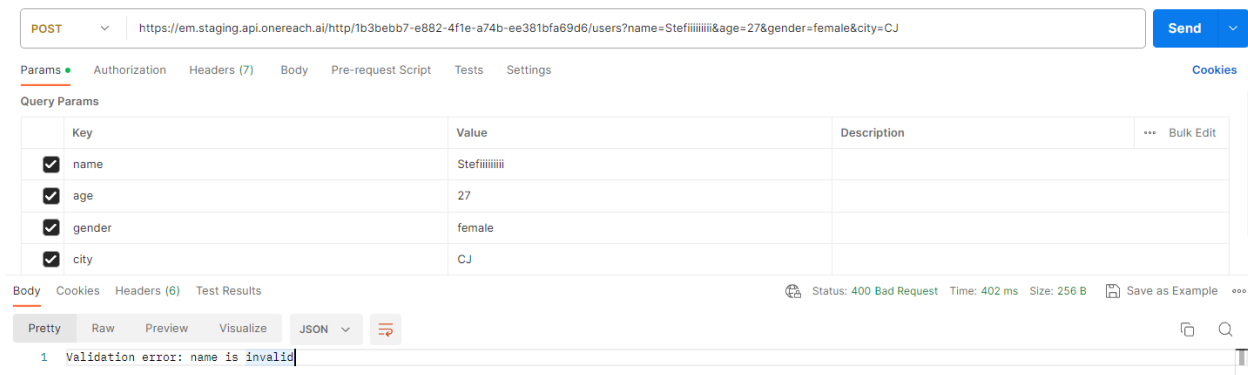
Body   Cookies   Headers (6)   Test Results (2/2)   Status: 200 OK   Time: 2.58 s   Size: 304 B   Save as Example ⋯

Pretty   Raw   Preview   Visualize   JSON ⌄

```
1  {
2      "age": 27,
3      "city": "Cj",
4      "gender": "female",
5      "name": "Stef valid",
6      "id": "21509368-133a-466c-8680-400e56af614d"
7  }
```

POST

BUG5 - POST Request is not valid, on the user's side, it might be the API that doesn't accept variables in the Params tab from postman?

| POST ⌄ | https://em.staging.api.onereach.ai/http/1b3bebb7-e882-4f1e-a74b-ee381bfa69d6/users?name=Stefiiiiiiii&age=27&gender=female&city=CJ | Send ⌄ |

Params ●   Authorization   Headers (7)   Body   Pre-request Script   Tests   Settings   Cookies

Query Params

	Key	Value	Description	⋯ Bulk Edit
☑	name	Stefiiiiiiii		
☑	age	27		
☑	gender	female		
☑	city	CJ		

Body   Cookies   Headers (6)   Test Results   Status: 400 Bad Request   Time: 402 ms   Size: 256 B   Save as Example ⋯

Pretty   Raw   Preview   Visualize   JSON ⌄

```
1  Validation error: name is invalid
```

- BUT ! I have a workaround for this one:

Settings the variables, under the Body tab - choose form-data and include the variables there, then it works 😃 Screenshot below :

POST ∨ https://em.staging.api.onereach.ai/http/1b3bebb7-e882-4f1e-a74b-ee381bfa69d6/users   Send ∨

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

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

☑ name   Stefiiii
☑ age   27
☑ gender   female
☑ city   CJ
   Key   Value   Description

Body   Cookies   Headers (6)   Test Results   ⊕ Status: 200 OK   Time: 2.67 s   Size: 302 B   🖺 Save as Example   ∘∘∘

Pretty   Raw   Preview   Visualize   JSON ∨   ⧉   🔍

1 {
2   "age": 27,
3   "city": "CJ",
4   "gender": "female",
5   "name": "Stefiiii",
6   "id": "2964f698-985f-44e1-9f21-884b5d2c889a"
7 }

PUT

BUG6 - PUT Request should not return OK or alter the existing data with predefined values. However API allows that with no error handling and response messages

PUT ∨ https://em.staging.api.onereach.ai/http/1b3bebb7-e882-4f1e-a74b-ee381bfa69d6/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

1 {
2   "id" : "6196c544-ac1a-412a-ab8b-8c8eb986c497"
3 }

Body   Cookies   Headers (6)   Test Results (2/4)   ⊕ Status: 200 OK   Time: 746 ms   Size: 313 B   🖺 Save as Example   ∘∘∘

Pretty   Raw   Preview   Visualize   JSON ∨   ⧉   🔍

1 {
2   "gender": "undefined",
3   "city": "undefined",
4   "name": "undefined",
5   "id": "6196c544-ac1a-412a-ab8b-8c8eb986c497",
6   "age": 27
7 }