



Become QA Auto

PROMETHEUS



HTTP. Як тестувати HTTP

Бутенко Сергій



План лекції



Як тестувати HTTP



Практика

⦿ **Задача**



Написати тести для перевірки HTTP

◎ Тестування HTTP





Тестування HTTP



Що перевіряти	Як перевіряти
HTTP response статус код	<ul style="list-style-type: none">• Чи прийшов вам саме той статус код на який ви очікували
HTTP response тіло	<ul style="list-style-type: none">• Чи вірні дані в тілі запиту
HTTP response заголовки	<ul style="list-style-type: none">• Чи вірні дані в заголовках



Перевірка статус кода



EXPLORER

...

> OPEN EDITORS

✓ BECOME QA AUTO

> .pytest_cache

> config

> modules

✓ tests

> __pycache__

✓ api

> __pycache__

test_api.py

test_fixtures.py

test_http.py

1, U

✓ ui

> __pycache__

test_ui.py

conf test ov

U

test_http.py X

pytest.ini

tests > api > test_http.py > test_second_request

```
1 import pytest
2 import requests
3
4
5 @pytest.mark.http
6 def test_first_request():
7     r = requests.get('https://api.github.com/zen')
8     print(f"Response is {r.text}")
9
10 @pytest.mark.http
11 def test_second_request():
12     r = requests.get('https://api.github.com/users/defunkt')
13     print(f"Response Body is {r.json()}")
14     print(f"Response Status code is {r.status_code}")
15     print(f"Response Headers are {r.headers}")
16
```



Перевірка статус кода



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...

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> .pytest_cache

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test_api.py M

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Перевірка статус кода



EXPLORER

> OPEN EDITORS

✓ BECOME QA AUTO

- > .pytest_cache
- > config
- > modules
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 - test_api.py
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test_http.py

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13     print(f"Response Body is {r.json()}")
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Перевірка статус кода



```
rootdir: /home/sbutenko/repos/LnD/Become QA Auto, configfile: pytest.ini
plugins: Faker-4.1.1, rerunfailures-9.1.1, forked-1.3.0, anyio-3.4.0, xdist-1.32.0, allure-pytest-2.8.16, html-2.1.1, metadata-1.10.0, ordering-0.6, instafail-0.4.2
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```

```
tests/api/test_http.py Response is Mind your words, they are important.
```

```
.Response Body is {'login': 'defunkt', 'id': 2, 'node_id': 'MDQ6VXNlcjI=', 'avatar_url': 'https://avatars.githubusercontent.com/u/2?v=4', 'gravatar_id': '', 'url': 'https://api.github.com/users/defunkt', 'html_url': 'https://github.com/defunkt', 'followers_url': 'https://api.github.com/users/defunkt/followers', 'following_url': 'https://api.github.com/users/defunkt/following{/other_user}', 'gists_url': 'https://api.github.com/users/defunkt/gists{/gist_id}', 'starred_url': 'https://api.github.com/users/defunkt/starred{/owner}/{/repo}', 'subscriptions_url': 'https://api.github.com/users/defunkt/subscriptions', 'organizations_url': 'https://api.github.com/users/defunkt/orgs', 'repos_url': 'https://api.github.com/users/defunkt/repos', 'events_url': 'https://api.github.com/users/defunkt/events{/privacy}', 'received_events_url': 'https://api.github.com/users/defunkt/received_events', 'type': 'User', 'site_admin': False, 'name': 'Chris Wanstrath', 'company': None, 'blog': 'http://chriswanstrath.com/', 'location': None, 'email': None, 'hireable': None, 'bio': '🍌', 'twitter_username': None, 'public_repos': 107, 'public_gists': 273, 'followers': 21451, 'following': 210, 'created_at': '2007-10-20T05:24:19Z', 'updated_at': '2022-06-01T23:46:26Z'}
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Response Headers are {'Server': 'GitHub.com', 'Date': 'Mon, 20 Jun 2022 19:02:29 GMT', 'Content-Type': 'application/json; charset=utf-8', 'Cache-Control': 'public, max-age=60, s-maxage=60', 'Vary': 'Accept, Accept-Encoding, Accept, X-Requested-With', 'ETag': 'W/"a139706aa40019d7e06c9bd50ba4626e24c8d51cd1d1c01854f4c6a72ad3f612"', 'Last-Modified': 'Wed, 01 Jun 2022 23:46:26 GMT', 'X-GitHub-Media-Type': 'github.v3; format=json', 'Access-Control-Expose-Headers': 'ETag, Link, Location, Retry-After, X-GitHub-OTP, X-RateLimit-Limit, X-RateLimit-Remaining, X-RateLimit-Used, X-RateLimit-Resource, X-RateLimit-Reset, X-OAuth-Scopes, X-Accepted-OAuth-Scopes, X-Poll-Interval, X-GitHub-Media-Type, X-GitHub-SSO, X-GitHub-Request-Id, Deprecation, Sunset', 'Access-Control-Allow-Origin': '*', 'Strict-Transport-Security': 'max-age=31536000; includeSubdomains; preload', 'X-Frame-Options': 'deny', 'X-Content-Type-Options': 'nosniff', 'X-XSS-Protection': '0', 'Referrer-Policy': 'origin-when-cross-origin, strict-origin-when-cross-origin', 'Content-Security-Policy': "default-src 'none'", 'Content-Encoding': 'gzip', 'X-RateLimit-Limit': '60', 'X-RateLimit-Remaining': '40', 'X-RateLimit-Reset': '1655752270', 'X-RateLimit-Resource': 'core', 'X-RateLimit-Used': '20', 'Accept-Ranges': 'bytes', 'Content-Length': '484', 'X-GitHub-Request-Id': '4EB8:4F1B:1ECBC2E:1FE54DD:62B0C445'}
```

```
===== 2 passed, 5 deselected in 0.68s =====
```




Перевірка тіла відпону



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collected 7 items / 5 deselected / 2 selected
```

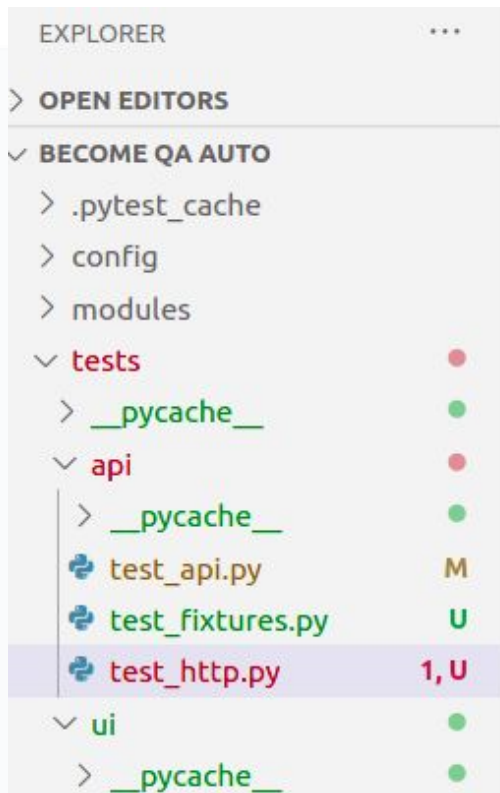
```
tests/api/test_http.py Response is Mind your words, they are important.
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```
.Response Body is {'login': 'defunkt', 'id': 2, 'node_id': 'MDQ6VXNlcjI=', 'avatar_url': 'https://avatars.githubusercontent.com/u/2?v=4', 'gravatar_id': '', 'url': 'https://api.github.com/users/defunkt', 'html_url': 'https://github.com/defunkt', 'followers_url': 'https://api.github.com/users/defunkt/followers', 'following_url': 'https://api.github.com/users/defunkt/following{/other_user}', 'gists_url': 'https://api.github.com/users/defunkt/gists{/gist_id}', 'starred_url': 'https://api.github.com/users/defunkt/starred{/owner}/{repo}', 'subscriptions_url': 'https://api.github.com/users/defunkt/subscriptions', 'organizations_url': 'https://api.github.com/users/defunkt/orgs', 'repos_url': 'https://api.github.com/users/defunkt/repos', 'events_url': 'https://api.github.com/users/defunkt/events{/privacy}', 'received_events_url': 'https://api.github.com/users/defunkt/received_events', 'type': 'User', 'site_admin': False, 'name': 'Chris Wanstrath', 'company': None, 'blog': 'http://chriswanstrath.com/', 'location': None, 'email': None, 'hireable': None, 'bio': '🍌', 'twitter_username': None, 'public_repos': 107, 'public_gists': 273, 'followers': 21451, 'following': 210, 'created_at': '2007-10-20T05:24:19Z', 'updated_at': '2022-06-01T23:46:26Z'}
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⦿ Перевірка тіла відпону



```
test_http.py ×  pytest.ini

tests > api > test_http.py > test_second_request

1  import pytest
2  import requests
3
4
5  @pytest.mark.http
6  def test_first_request():
7      r = requests.get('https://api.github.com/zen')
8      print(f"Response is {r.text}")
9
10 @pytest.mark.http
11 def test_second_request():
12     r = requests.get('https://api.github.com/users/defunkt')
13     print(f"Response Body is {r.json()}")
14     assert r.status_code == 200
15     print(f"Response Headers are {r.headers}")
```



Перевірка тіла відпону



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```




Перевірка тіла відпону



```
→ Become QA Auto git:(master) X pytest -m http -s
===== test session starts =====
platform linux -- Python 3.8.10, pytest-7.1.2, pluggy-0.13.1
rootdir: /home/sbutenko/repos/LnD/Become QA Auto, configfile: pytest.ini
plugins: Faker-4.1.1, rerunfailures-9.1.1, forked-1.3.0, anyio-3.4.0, xdist-1.32.0, allure-pytest-2.8.16, html-2.1.1, metadata-1.10.0, ordering-0.6, instafail-0.4.2
collected 7 items / 5 deselected / 2 selected

tests/api/test_http.py Response is Responsive is better than fast.
.Response Headers are {'Server': 'GitHub.com', 'Date': 'Mon, 20 Jun 2022 19:19:14 GMT', 'Content-Type': 'application/json; charset=utf-8', 'Cache-Control': 'public, max-age=60, s-maxage=60', 'Vary': 'Accept, Accept-Encoding, Accept, X-Requested-With', 'ETag': 'W/"a139706aa40019d7e06c9bd50ba4626e24c8d51cd1d1c01854f4c6a72ad3f612"', 'Last-Modified': 'Wed, 01 Jun 2022 23:46:26 GMT', 'X-GitHub-Media-Type': 'github.v3; format=json', 'Access-Control-Expose-Headers': 'ETag, Link, Location, Retry-After, X-GitHub-OTP, X-RateLimit-Limit, X-RateLimit-Remaining, X-RateLimit-Used, X-RateLimit-Resource, X-RateLimit-Reset, X-OAuth-Scopes, X-Accepted-OAuth-Scopes, X-Poll-Interval, X-GitHub-Media-Type, X-GitHub-SSO, X-GitHub-Request-Id, Deprecation, Sunset', 'Access-Control-Allow-Origin': '*', 'Strict-Transport-Security': 'max-age=31536000; includeSubdomains; preload', 'X-Frame-Options': 'deny', 'X-Content-Type-Options': 'nosniff', 'X-XSS-Protection': '0', 'Referrer-Policy': 'origin-when-cross-origin, strict-origin-when-cross-origin', 'Content-Security-Policy': "default-src 'none'", 'Content-Encoding': 'gzip', 'X-RateLimit-Limit': '60', 'X-RateLimit-Remaining': '55', 'X-RateLimit-Reset': '1655756230', 'X-RateLimit-Resource': 'core', 'X-RateLimit-Used': '5', 'Accept-Ranges': 'bytes', 'Content-Length': '484', 'X-GitHub-Request-Id': '7097:0C89:1EF6AEB:1FB5898:62B0C832'}
.

===== 2 passed, 5 deselected in 0.74s =====
```



Перевірка заголовків ріспонсу



EXPLORER

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Перевірка заголовків ріспонсу



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16     assert body['name'] == 'Chris Wanstrath'
17     assert r.status_code == 200
18     assert headers['Server'] == 'GitHub.com'
```




Перевірка тіла відпону



```
→ Become QA Auto git:(master) X pytest -m http -s
===== test session starts =====
platform linux -- Python 3.8.10, pytest-7.1.2, pluggy-0.13.1
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platform linux -- Python 3.8.10, pytest-7.1.2, pluggy-0.13.1
rootdir: /home/sbutenko/repos/LnD/Become QA Auto, configfile: pytest.ini
plugins: Faker-4.1.1, rerunfailures-9.1.1, forked-1.3.0, anyio-3.4.0, xdist-1.32.0, allure-pytest-2.8.16, html-2.1.1, metadata-1.10.0, ordering-0.6, instafail-0.4.2
collected 7 items / 5 deselected / 2 selected

tests/api/test_http.py Response is Non-blocking is better than blocking.
..

===== 2 passed, 5 deselected in 0.51s =====
```



Негативний тест



EXPLORER

...

test_http.py X

pytest.ini

tests > api > test_http.py > test_status_code_request

```
8 print(f"Response is {r.text}")
9
10 @pytest.mark.http
11 def test_second_request():
12     r = requests.get('https://api.github.com/users/defunkt')
13     body = r.json()
14     headers = r.headers
15
16     assert body['name'] == 'Chris Wanstrath'
17     assert r.status_code == 200
18     assert headers['Server'] == 'GitHub.com'
19
20
21 @pytest.mark.http
22 def test_status_code_request():
23     r = requests.get('https://api.github.com/users/sergii_butenko')
24
25     assert r.status_code == 200
```

OPEN EDITORS

BECOME QA AUTO

> .pytest_cache

> config

> modules

tests

> __pycache__

api

> __pycache__

test_api.py M

test_fixtures.py U

test_http.py 1, U

ui

> __pycache__

test_ui.py

conftest.py U

pytest.ini U



Негативний тест



```
→ Become QA Auto git:(master) X pytest -m http -s
===== test session starts =====
platform linux -- Python 3.8.10, pytest-7.1.2, pluggy-0.13.1
rootdir: /home/sbutenko/repos/LnD/Become QA Auto, configfile: pytest.ini
plugins: Faker-4.1.1, rerunfailures-9.1.1, forked-1.3.0, anyio-3.4.0, xdist-1.32.0, allure-pytest-2.8.16, html-2.1.1, metadata-1.10.0, ordering-0.6, instafail-0.4.2
collected 8 items / 5 deselected / 3 selected

tests/api/test_http.py Response is It's not fully shipped until it's fast.
..F

===== FAILURES =====
_____ test_status_code_request _____

@pytest.mark.http
def test_status_code_request():
    r = requests.get('https://api.github.com/users/sergii_butenko')

> assert r.status_code == 200
E       assert 404 == 200
E       + where 404 = <Response [404]>.status_code

tests/api/test_http.py:25: AssertionError
===== short test summary info =====
FAILED tests/api/test_http.py::test_status_code_request - assert 404 == 200
===== 1 failed, 2 passed, 5 deselected in 1.12s =====
```



Негативний тест



EXPLORER

...

> OPEN EDITORS

▼ BECOME QA AUTO

> .pytest_cache

> config

> modules

▼ tests

> __pycache__

▼ api

> __pycache__

test_api.py M

test_fixtures.py U

test_http.py 1, U

▼ ui

> __pycache__

test_ui.py

conftest.py U

ovtest.ini U

test_http.py X

pytest.ini

tests > api > test_http.py > ...

```
8 print(f"Response is {r.text}")
9
10 @pytest.mark.http
11 def test_second_request():
12     r = requests.get('https://api.github.com/users/defunkt')
13     body = r.json()
14     headers = r.headers
15
16     assert body['name'] == 'Chris Wanstrath'
17     assert r.status_code == 200
18     assert headers['Server'] == 'GitHub.com'
19
20
21 @pytest.mark.http
22 def test_status_code_request():
23     r = requests.get('https://api.github.com/users/sergii_butenko')
24
25     assert r.status code == 404
```



Негативний тест



```
→ Become QA Auto git:(master) X pytest -m http -s
===== test session starts =====
platform linux -- Python 3.8.10, pytest-7.1.2, pluggy-0.13.1
rootdir: /home/sbutenko/repos/LnD/Become QA Auto, configfile: pytest.ini
plugins: Faker-4.1.1, rerunfailures-9.1.1, forked-1.3.0, anyio-3.4.0, xdist-1.32.0, allure-pytest-2.8.16, html-2.1.1, metadata-1.10.0, ordering-0.6, instafail-0.4.2
collected 8 items / 5 deselected / 3 selected

tests/api/test_http.py Response is It's not fully shipped until it's fast.
...
===== 3 passed, 5 deselected in 1.49s =====
```



Підсумки



Навчилися:



Тестувати статус код



Тестувати тіло ріспонса



Тестувати заголовки