Вовчановський Павло, ФБ-01мн

https://github.com/vovchanovsky/dsd-l2/tree/micro_mq
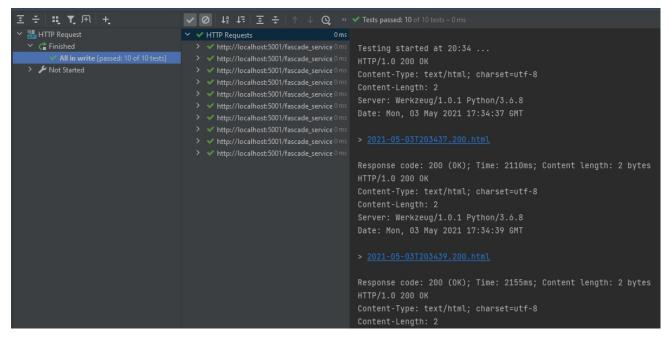
```http
write.http

Run all requests in file

 1  POST http://localhost:5001/fascade_service
 2  Content-Type: application/json
 3
 4  {"msg": "msg1"}
 5
 6  ###
 7  POST http://localhost:5001/fascade_service
 8  Content-Type: application/json
 9
10  {"msg": "msg2"}
11
12  ###
13  POST http://localhost:5001/fascade_service
14  Content-Type: application/json
15
16  {"msg": "msg3"}
17
18  ###
19  POST http://localhost:5001/fascade_service
20  Content-Type: application/json
21
22  {"msg": "msg4"}
23
24  ###
25  POST http://localhost:5001/fascade_service
26  Content-Type: application/json
```

```http
check.http

Run all requests in file

 1  GET http://localhost:5001/fascade_service
 2
```

HTTP Request
  Finished
    ✓ All in write [passed: 10 of 10 tests]
  🔧 Not Started

HTTP Requests   0 ms
  > ✓ http://localhost:5001/fascade_service   0 ms
  > ✓ http://localhost:5001/fascade_service   0 ms
  > ✓ http://localhost:5001/fascade_service   0 ms
  > ✓ http://localhost:5001/fascade_service   0 ms
  > ✓ http://localhost:5001/fascade_service   0 ms
  > ✓ http://localhost:5001/fascade_service   0 ms
  > ✓ http://localhost:5001/fascade_service   0 ms
  > ✓ http://localhost:5001/fascade_service   0 ms
  > ✓ http://localhost:5001/fascade_service   0 ms
  > ✓ http://localhost:5001/fascade_service   0 ms

```
Testing started at 20:34 ...
HTTP/1.0 200 OK
Content-Type: text/html; charset=utf-8
Content-Length: 2
Server: Werkzeug/1.0.1 Python/3.6.8
Date: Mon, 03 May 2021 17:34:37 GMT

> 2021-05-03T203437.200.html

Response code: 200 (OK); Time: 2110ms; Content length: 2 bytes
HTTP/1.0 200 OK
Content-Type: text/html; charset=utf-8
Content-Length: 2
Server: Werkzeug/1.0.1 Python/3.6.8
Date: Mon, 03 May 2021 17:34:39 GMT

> 2021-05-03T203439.200.html

Response code: 200 (OK); Time: 2155ms; Content length: 2 bytes
HTTP/1.0 200 OK
Content-Type: text/html; charset=utf-8
Content-Length: 2
```

HTTP Request
  Finished
    ✓ All in write [passed: 10 of 10 tests]
    check#1

```
GET http://localhost:5001/fascade_service

HTTP/1.0 200 OK
Content-Type: text/html; charset=utf-8
Content-Length: 165
Server: Werkzeug/1.0.1 Python/3.6.8
Date: Mon, 03 May 2021 17:36:50 GMT

Reply from  logging-service (port:5007): msg5,msg6,msg1,msg8,msg4,msg7,msg3,msg9,msg2,msg10
<br/>Reply from messages-service (port:5003): msg1, msg3, msg5, msg7, msg9

Response code: 200 (OK); Time: 4166ms; Content length: 165 bytes
```

HTTP Request
  Finished
    ✓ All in write [passed: 10 of 10 tests]
    check#1

```
GET http://localhost:5001/fascade_service

HTTP/1.0 200 OK
Content-Type: text/html; charset=utf-8
Content-Length: 166
Server: Werkzeug/1.0.1 Python/3.6.8
Date: Mon, 03 May 2021 17:37:13 GMT

Reply from  logging-service (port:5005): msg5,msg4,msg8,msg6,msg1,msg3,msg9,msg2,msg10,msg7
<br/>Reply from messages-service (port:5004): msg2, msg4, msg6, msg8, msg10

Response code: 200 (OK); Time: 4165ms; Content length: 166 bytes
```

Run: 🐍 fascade ×

    D:\Родионов\2sem\lab2\newvenv\Scripts\python.exe D:/Родионов/2sem/lab2/fascade-service/fascade.py
     * Serving Flask app "fascade" (lazy loading)
     * Environment: production
       WARNING: This is a development server. Do not use it in a production deployment.
       Use a production WSGI server instead.
     * Debug mode: on
     * Restarting with stat
     * Debugger is active!
     * Debugger PIN: 859-827-778
     * Running on http://127.0.0.1:5001/ (Press CTRL+C to quit)
    127.0.0.1 - - [03/May/2021 20:34:37] "POST /fascade_service HTTP/1.1" 200 -
    127.0.0.1 - - [03/May/2021 20:34:39] "POST /fascade_service HTTP/1.1" 200 -
    127.0.0.1 - - [03/May/2021 20:34:42] "POST /fascade_service HTTP/1.1" 200 -
    127.0.0.1 - - [03/May/2021 20:34:44] "POST /fascade_service HTTP/1.1" 200 -
    127.0.0.1 - - [03/May/2021 20:34:46] "POST /fascade_service HTTP/1.1" 200 -
    127.0.0.1 - - [03/May/2021 20:34:48] "POST /fascade_service HTTP/1.1" 200 -
    127.0.0.1 - - [03/May/2021 20:34:50] "POST /fascade_service HTTP/1.1" 200 -
    127.0.0.1 - - [03/May/2021 20:34:52] "POST /fascade_service HTTP/1.1" 200 -
    127.0.0.1 - - [03/May/2021 20:34:54] "POST /fascade_service HTTP/1.1" 200 -
    127.0.0.1 - - [03/May/2021 20:34:57] "POST /fascade_service HTTP/1.1" 200 -
    127.0.0.1 - - [03/May/2021 20:36:37] "GET /fascade_service HTTP/1.1" 200 -
    127.0.0.1 - - [03/May/2021 20:36:50] "GET /fascade_service HTTP/1.1" 200 -
    127.0.0.1 - - [03/May/2021 20:37:13] "GET /fascade_service HTTP/1.1" 200 -

Terminal: log1 ×   log2 ×   log3 ×   msg1 ×   msg2 ×   +

Microsoft Windows [Version 10.0.19043.964]
(с) Корпорація Майкрософт. Усі права захищені.

(newvenv) D:\Родионов\2sem\lab2>logging-service\log_srv.py 5005
 * Serving Flask app "log_srv" (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: on
 * Running on http://127.0.0.1:5005/ (Press CTRL+C to quit)
{'84ec83ca-64b7-453f-85c8-ead11dab6628': 'msg6'}
127.0.0.1 - - [03/May/2021 20:34:48] "←[37mPOST /log HTTP/1.1←[0m" 200 -
{'55116704-93d5-48f4-856a-559b446fe139': 'msg7'}
127.0.0.1 - - [03/May/2021 20:34:50] "←[37mPOST /log HTTP/1.1←[0m" 200 -
{'6ad39074-ee6f-420e-bfea-9397d4a27e44': 'msg9'}
127.0.0.1 - - [03/May/2021 20:34:54] "←[37mPOST /log HTTP/1.1←[0m" 200 -
127.0.0.1 - - [03/May/2021 20:37:13] "←[37mGET /log HTTP/1.1←[0m" 200 -
Good luck!

Terminal: log1 ×   log2 ×   log3 ×   msg1 ×   msg2 ×   +

Microsoft Windows [Version 10.0.19043.964]
(c) Корпорація Майкрософт. Усі права захищені.

(newvenv) D:\Родионов\2sem\lab2>logging-service\log_srv.py 5006
 * Serving Flask app "log_srv" (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: on
 * Running on http://127.0.0.1:5006/ (Press CTRL+C to quit)
{'71801c4c-3b27-456e-a41a-611be4d50d75': 'msg2'}
127.0.0.1 - - [03/May/2021 20:34:39] "←[37mPOST /log HTTP/1.1←[0m" 200 -
{'5cd90d67-9201-4f2a-abcc-08e9a11bd83d': 'msg8'}
127.0.0.1 - - [03/May/2021 20:34:52] "←[37mPOST /log HTTP/1.1←[0m" 200 -
127.0.0.1 - - [03/May/2021 20:36:37] "←[37mGET /log HTTP/1.1←[0m" 200 -
Good luck!

Terminal: log1 ×   log2 ×   log3 ×   msg1 ×   msg2 ×   +

(newvenv) D:\Родионов\2sem\lab2>logging-service\log_srv.py 5007
 * Serving Flask app "log_srv" (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: on
 * Running on http://127.0.0.1:5007/ (Press CTRL+C to quit)
{'a86b3a6a-a978-4256-9977-183df595a40b': 'msg1'}
127.0.0.1 - - [03/May/2021 20:34:37] "←[37mPOST /log HTTP/1.1←[0m" 200 -
{'616a847e-b665-45fd-b268-c6f032966132': 'msg3'}
127.0.0.1 - - [03/May/2021 20:34:42] "←[37mPOST /log HTTP/1.1←[0m" 200 -
{'16635a13-9564-4a07-996c-e9b3e28f6806': 'msg4'}
127.0.0.1 - - [03/May/2021 20:34:44] "←[37mPOST /log HTTP/1.1←[0m" 200 -
{'b5292c17-d1a7-4454-8a3b-db947a62f5d6': 'msg5'}
127.0.0.1 - - [03/May/2021 20:34:46] "←[37mPOST /log HTTP/1.1←[0m" 200 -
{'e90d2def-d2f3-4bbd-aad2-bcf94487f8d1': 'msg10'}
127.0.0.1 - - [03/May/2021 20:34:57] "←[37mPOST /log HTTP/1.1←[0m" 200 -
127.0.0.1 - - [03/May/2021 20:36:50] "←[37mGET /log HTTP/1.1←[0m" 200 -
Good luck!

```
Terminal:   log1 ×   log2 ×   log3 ×   msg1 ×   msg2 ×   +

(c) Корпорація Майкрософт. Усі права захищені.


(newvenv) D:\Родионов\2sem\lab2>messages-service\msg-srv.py 5003
 * Serving Flask app "msg-srv" (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: on
 * Running on http://127.0.0.1:5003/ (Press CTRL+C to quit)
Connecting to RabbitMQ... Wait a while.
Connecting to RabbitMQ... Wait a while.
 [*] All done. Waiting for your messages. To exit press CTRL+C
 [x] Received 'msg1'
 [x] Received 'msg3'
 [x] Received 'msg5'
 [x] Received 'msg7'
 [x] Received 'msg9'
127.0.0.1 - - [03/May/2021 20:36:35] "←[37mGET / HTTP/1.1←[0m" 200 -
127.0.0.1 - - [03/May/2021 20:36:48] "←[37mGET / HTTP/1.1←[0m" 200 -
Good luck!
```

```
Terminal:   log1 ×   log2 ×   log3 ×   msg1 ×   msg2 ×   +

Microsoft Windows [Version 10.0.19043.964]
(c) Корпорація Майкрософт. Усі права захищені.


(newvenv) D:\Родионов\2sem\lab2>messages-service\msg-srv.py 5004
RabbitMQ is already running
 * Serving Flask app "msg-srv" (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: on
 [*] All done. Waiting for your messages. To exit press CTRL+C
 * Running on http://127.0.0.1:5004/ (Press CTRL+C to quit)
 [x] Received 'msg2'
 [x] Received 'msg4'
 [x] Received 'msg6'
 [x] Received 'msg8'
 [x] Received 'msg10'
127.0.0.1 - - [03/May/2021 20:37:11] "←[37mGET / HTTP/1.1←[0m" 200 -
Good luck!
```