Task 5 - Мікросервиси з використанням Service Discovery та Config Server на базі Consul

Вимоги до протоколу

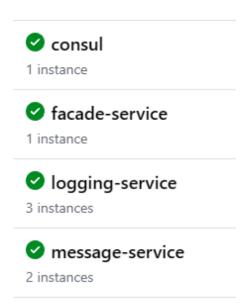
У протоколі має міститись:

- посилання на GitHub з проектом https://github.com/DruzDanil/distributed-systems-design-2024/tree/micro_consul
- скріншоти з POST/GET-запитами та відповіді на них

```
● PS C:\Users\Люциуc\Desktop\DSD\distributed-systems-design-2024\Lab5> python client.py
  POST відповідь: Message: msg1
  POST відповідь: Message: msg2
  POST відповідь: Message: msg3
  POST відповідь: Message: msg4
  POST відповідь: Message: msg5
  POST відповідь: Message: msg6
  POST відповідь: Message: msg7
  POST відповідь: Message: msg8
  POST відповідь: Message: msg9
  POST відповідь: Message: msg10
 GET відповідь: {
       "logging-service": {
             "0afa8f66-aeef-4181-a41d-24557e417b06": "msg10",
            "13e34da4-94bc-47a7-aa43-e9d27f1fff05": "msg1"
            "1fa9b0a3-f4a7-43c6-a1bf-4e09b7e244e7": "msg4"
            "2d349f27-c916-42fe-ae42-cd31f77c8ee2": "msg7
            "440cf1d0-58cb-4e3c-90d3-aa06f000ae4c": "msg5"
            "85dd85e3-9d00-4f09-982c-71cfc0776cf0": "msg6"
            "b96c71e4-518f-4d25-afc9-835e34d155e8": "msg8",
            "c54292f3-dc21-4e32-ad46-e91663ac0271": "msg3",
            "c62e59e3-f53d-4bee-af00-0b6d7cc08456": "msg2",
            "e068a74a-4e3d-4085-8597-b66a41ca6d11": "msg9'
        message-service":[
            "msg1",
            "msg3",
"msg5",
"msg7",
            "msg9"
  GET відповідь: {
       "logging-service": {
             "0afa8f66-aeef-4181-a41d-24557e417b06": "msg10",
            "13e34da4-94bc-47a7-aa43-e9d27f1fff05": "msg1"
            "1fa9b0a3-f4a7-43c6-a1bf-4e09b7e244e7": "msg4"
            "2d349f27-c916-42fe-ae42-cd31f77c8ee2": "msg7
            "440cf1d0-58cb-4e3c-90d3-aa06f000ae4c": "msg5"
            "85dd85e3-9d00-4f09-982c-71cfc0776cf0": "msg6",
            "b96c71e4-518f-4d25-afc9-835e34d155e8": "msg8",
            "c54292f3-dc21-4e32-ad46-e91663ac0271": "msg3",
            "c62e59e3-f53d-4bee-af00-0b6d7cc08456": "msg2",
            "e068a74a-4e3d-4085-8597-b66a41ca6d11": "msg9'
        message-service":[
            "msg1",
"msg3",
            "msg5",
"msg7",
            "msg9"
```

• вміст консолі кожного з мікросевісу якщо туди виводиться якась корисна інформація

Services 4 total



Logging-services

```
GI server instead.

* Running on http://127.0.0.1:5002

Press CTRL+C to quit

Receive message: msg1

127.0.0.1 - - [14/May/2024 18:10:19] "POST /data H

TTP/1.1" 200 -

Receive message: msg2

127.0.0.1 - - [14/May/2024 18:10:19] "POST /data H

TTP/1.1" 200 -

Receive message: msg3

127.0.0.1 - - [14/May/2024 18:10:19] "POST /data H

TTP/1.1" 200 -

Receive message: msg3

127.0.0.1 - - [14/May/2024 18:10:19] "POST /data H

TTP/1.1" 200 -

Receive message: msg3

127.0.0.1 - - [14/May/2024 18:10:19] "POST /data H

TTP/1.1" 200 -

Receive message: msg8

127.0.0.1 - - [14/May/2024 18:10:19] "POST /data H

TTP/1.1" 200 -

Receive message: msg8

127.0.0.1 - - [14/May/2024 18:10:19] "POST /data H

TTP/1.1" 200 -

Receive message: msg10

127.0.0.1 - - [14/May/2024 18:10:19] "POST /data H

TTP/1.1" 200 -

Receive message: msg8

127.0.0.1 - - [14/May/2024 18:10:19] "POST /data H

TTP/1.1" 200 -

Receive message: msg10

127.0.0.1 - - [14/May/2024 18:10:19] "POST /data H

TTP/1.1" 200 -

Receive message: msg10

127.0.0.1 - - [14/May/2024 18:10:19] "POST /data H

TTP/1.1" 200 -

Receive message: msg10

127.0.0.1 - - [14/May/2024 18:10:19] "POST /data H

TTP/1.1" 200 -

Receive message: msg0

127.0.0.1 - - [14/May/2024 18:10:19] "POST /data H

TTP/1.1" 200 -

Receive message: msg7

127.0.0.1 - - [14/May/2024 18:10:19] "POST /data H

TTP/1.1" 200 -

Receive message: msg7

127.0.0.1 - - [14/May/2024 18:10:19] "POST /data H

TTP/1.1" 200 -

Receive message: msg9

127.0.0.1 - - [14/May/2024 18:10:19] "POST /data H

TTP/1.1" 200 -

Receive message: msg9

127.0.0.1 - - [14/May/2024 18:10:19] "POST /data H

TTP/1.1" 200 -

Receive message: msg0

127.0.0.1 - - [14/May/2024 18:10:19] "POST /data H

TTP/1.1" 200 -

Receive message: msg0

127.0.0.1 - - [14/May/2024 18:10:19] "POST /data H

TTP/1.1" 200 -

Receive message: msg0

127.0.0.1 - - [14/May/2024 18:10:19] "GET /data H

TTP/1.1" 200 -

Receive message: msg0

127.0.0.1 - - [14/May/2024 18:10:19] "GET /data H

TTP/1.1" 200 -

Receive message: msg0

127.0.0.1 - - [14/May/2024 18:10
```

Message-services

```
# Running on http://127.0.0.1:5005

Press CTRL+C to quit

1. Get message: msg1

2. Get message: msg3

3. Get message: msg5

4. Get message: msg7

5. Get message: msg9

Messages list: ['msg1', 'msg3', 'msg5', 'msg7', 'msg9']

127.0.0.1 - - [14/May/2024 18:10:19] "GET /data HTTP/1.1" 200 -

Messages list: ['msg1', 'msg3', 'msg5', 'msg7', 'msg9']

127.0.0.1 - - [14/May/2024 18:10:19] "GET /data HTTP/1.1" 200 -
```

```
Facade-service
 PS C:\Users\Люциуc\Desktop\D5D\distributed-systems-design-2024\Lab5> python facadeserv.py 5000
 Search (Cfr;+Shift+F)
* Serving Flask app 'facadeserv'
   * Debug mode: off
  * Running on http://127.0.0.1:5000
  Press CTRL+C to quit
  value: msg1
  UID: 13e34da4-94bc-47a7-aa43-e9d27f1fff05
  Data: {'13e34da4-94bc-47a7-aa43-e9d27f1fff05': 'msg1'}
  Response Message: msg1
  127.0.0.1 - - [14/May/2024 18:10:19] "POST /data HTTP/1.1" 200 -
  value: msg2
  UID: c62e59e3-f53d-4bee-af00-0b6d7cc08456
  Data: {'c62e59e3-f53d-4bee-af00-0b6d7cc08456': 'msg2'}
  Response Message: msg2
  127.0.0.1 - - [14/May/2024 18:10:19] "POST /data HTTP/1.1" 200 -
  value: msg3
  UID: c54292f3-dc21-4e32-ad46-e91663ac0271
  Data: {'c54292f3-dc21-4e32-ad46-e91663ac0271': 'msg3'}
  Response Message: msg3
  127.0.0.1 - - [14/May/2024 18:10:19] "POST /data HTTP/1.1" 200 -
  value: msg4
  UID: 1fa9b0a3-f4a7-43c6-a1bf-4e09b7e244e7
  Data: {'1fa9b0a3-f4a7-43c6-a1bf-4e09b7e244e7': 'msg4'}
  Response Message: msg4
  127.0.0.1 - - [14/May/2024 18:10:19] "POST /data HTTP/1.1" 200 -
  value: msg5
  UID: 440cf1d0-58cb-4e3c-90d3-aa06f000ae4c
  Data: {'440cf1d0-58cb-4e3c-90d3-aa06f000ae4c': 'msg5'}
  Response Message: msg5
  127.0.0.1 - - [14/May/2024 18:10:19] "POST /data HTTP/1.1" 200 -
  value: msg6
  UID: 85dd85e3-9d00-4f09-982c-71cfc0776cf0
  Data: {'85dd85e3-9d00-4f09-982c-71cfc0776cf0': 'msg6'}
  Response Message: msg6
  127.0.0.1 - - [14/May/2024 18:10:19] "POST /data HTTP/1.1" 200 -
  value: msg7
  UID: 2d349f27-c916-42fe-ae42-cd31f77c8ee2
  Data: {'2d349f27-c916-42fe-ae42-cd31f77c8ee2': 'msg7'}
  Response Message: msg7
  127.0.0.1 - - [14/May/2024 18:10:19] "POST /data HTTP/1.1" 200 -
  value: msg8
  UID: b96c71e4-518f-4d25-afc9-835e34d155e8
  Data: { 'b96c71e4-518f-4d25-afc9-835e34d155e8': 'msg8'}
  Response Message: msg8
  127.0.0.1 - - [14/May/2024 18:10:19] "POST /data HTTP/1.1" 200 -
 value: msg9
 UID: e068a74a-4e3d-4085-8597-b66a41ca6d11
 Data: {'e068a74a-4e3d-4085-8597-b66a41ca6d11': 'msg9'}
 Response Message: msg9
```

```
value: msg9
UID: e068a74a-4e3d-4085-8597-b66a41ca6d11
Data: {'e068a74a-4e3d-4085-8597-b66a41ca6d11': 'msg9'}
Response Message: msg9
127.0.0.1 - [14/May/2024 18:10:19] "POST /data HTTP/1.1" 200 -
value: msg10
UID: 0afa8f66-aeef-4181-a41d-24557e417b06
Data: {'0afa8f66-aeef-4181-a41d-24557e417b06': 'msg10'}
Response Message: msg10
127.0.0.1 - [14/May/2024 18:10:19] "POST /data HTTP/1.1" 200 -
127.0.0.1 - [14/May/2024 18:10:19] "GET /data HTTP/1.1" 200 -
127.0.0.1 - [14/May/2024 18:10:19] "GET /data HTTP/1.1" 200 -
```