

Lab 1 - Protocol

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Github

https://github.com/Adeon18/MicroServices/tree/micro_basics

Всі інструкції(build, dependancies) в рідмі на гілці

Демонстрація Роботи

Вміст файлу **Requests.http** (він є на гітхабі)

```
GET http://localhost:8080/FacadeService
Accept: text/html

###

POST http://localhost:8080/FacadeService
Content-Type: application/text

testMsg3
###
```

Порядок запитів

1. GET
2. POST
3. GET
4. POST
5. GET

1. GET

Запит:

```
http://localhost:8080/FacadeService
```

```
HTTP/1.1 200 OK
```

```
Date: Tue, 14 Feb 2023 20:55:42 GMT
```

```
Content-Type: text/plain
```

```
Content-Length: 42
```

```
| Message server GET response placeholder
```

```
Response code: 200 (OK); Time: 7ms (7 ms); Content length: 42 bytes (42 B)
```

FacadeService:

```
/home/adeon/coding/APZ/labs/MicroServices/cmake-build-debug/FacadeService/FacadeService
[2023-02-14 22:55:33.418] [info] Server at /FacadeService started
[2023-02-14 22:55:42.118] [info] Received GET from: 127.0.0.1:51866
[2023-02-14 22:55:42.118] [info] Sending GET to: http://localhost:8081/LoggingService
[2023-02-14 22:55:42.120] [info] GET STATUS: 200
[2023-02-14 22:55:42.120] [info] Sending GET to: http://localhost:8082/MessageService
[2023-02-14 22:55:42.121] [info] GET STATUS: 200
```

MessageService:

```
/home/adeon/coding/APZ/labs/MicroServices/cmake-build-debug/MessageService/MessageService
[2023-02-14 22:55:34.631] [info] Server at /MessageService started
[2023-02-14 22:55:42.120] [info] Received GET from: 127.0.0.1:11500
```

LoggingService:

```
/home/adeon/coding/APZ/labs/MicroServices/cmake-build-debug/LoggingService/LoggingService
[2023-02-14 22:55:33.908] [info] Server at /LoggingService started
[2023-02-14 22:55:42.120] [info] Received GET from: 127.0.0.1:25748
[2023-02-14 22:55:42.120] [info] GET response:
```

2. POST

Запит:

```
http://localhost:8080/FacadeService

HTTP/1.1 200 OK
Date: Tue, 14 Feb 2023 20:58:35 GMT
Content-Type: text/plain
Content-Length: 14

Message Logged

Response code: 200 (OK); Time: 3ms (3 ms); Content length: 14 bytes (14 B)
```

FacadeService:

```
[2023-02-14 22:58:35.504] [info] Received POST from: 127.0.0.1:19158
[2023-02-14 22:58:35.504] [info] Generated UUID pair: [76d120af-e37e-4041-b794-a7bdd93fc3f8, testMsg3]
[2023-02-14 22:58:35.504] [info] Sending POST to: http://localhost:8081/LoggingService
[2023-02-14 22:58:35.505] [info] POST STATUS: 200
```

MessageService:

None

LoggingService:

```
[2023-02-14 22:58:35.504] [info] Received POST from: 127.0.0.1:12502
[2023-02-14 22:58:35.504] [info] Received msg pair: [76d120af-e37e-4041-b794-a7bdd93fc3f8, testMsg3]
```

3. GET

Запит:

```
http://localhost:8080/FacadeService

HTTP/1.1 200 OK
Date: Tue, 14 Feb 2023 20:59:32 GMT
Content-Type: text/plain
Content-Length: 51

testMsg3; | Message server GET response placeholder

Response code: 200 (OK); Time: 3ms (3 ms); Content length: 51 bytes (51 B)
```

FacadeService:

```
[2023-02-14 22:59:32.672] [info] Received GET from: 127.0.0.1:21694  
[2023-02-14 22:59:32.672] [info] Sending GET to: http://localhost:8081/LoggingService  
[2023-02-14 22:59:32.673] [info] GET STATUS: 200  
[2023-02-14 22:59:32.673] [info] Sending GET to: http://localhost:8082/MessageService  
[2023-02-14 22:59:32.673] [info] GET STATUS: 200
```

MessageService:

```
[2023-02-14 22:59:32.673] [info] Received GET from: 127.0.0.1:15010
```

LoggingService:

```
[2023-02-14 22:59:32.673] [info] Received GET from: 127.0.0.1:28906  
[2023-02-14 22:59:32.673] [info] GET response: testMsg3;
```

4. POST

Запит:

Меседж змінився на `testMsgAnother`

```
http://localhost:8080/FacadeService
```

```
HTTP/1.1 200 OK
```

```
Date: Tue, 14 Feb 2023 21:01:14 GMT
```

```
Content-Type: text/plain
```

```
Content-Length: 14
```

```
Message Logged
```

```
Response code: 200 (OK); Time: 3ms (3 ms); Content length: 14 bytes (14 B)
```

FacadeService:

```
[2023-02-14 23:01:14.444] [info] Received POST from: 127.0.0.1:61608
[2023-02-14 23:01:14.445] [info] Generated UUID pair: [43371bed-d2eb-4d5b-8a1d-74e9fc32fffe, testMsgAnother]
[2023-02-14 23:01:14.445] [info] Sending POST to: http://localhost:8081/LoggingService
[2023-02-14 23:01:14.445] [info] POST STATUS: 200
```

MessageService:

None

LoggingService:

```
[2023-02-14 23:01:14.445] [info] Received POST from: 127.0.0.1:33987
[2023-02-14 23:01:14.445] [info] Received msg pair: [43371bed-d2eb-4d5b-8a1d-74e9fc32fffe, testMsgAnother]
```

5. GET

Запит:

```
http://localhost:8080/FacadeService
```

```
HTTP/1.1 200 OK
```

```
Date: Tue, 14 Feb 2023 21:02:26 GMT
```

```
Content-Type: text/plain
```

```
Content-Length: 66
```

```
testMsgAnother;testMsg3; | Message server GET response placeholder
```

```
Response code: 200 (OK); Time: 3ms (3 ms); Content length: 66 bytes (66 B)
```

FacadeService:

```
[2023-02-14 23:02:26.027] [info] Received GET from: 127.0.0.1:56501
[2023-02-14 23:02:26.027] [info] Sending GET to: http://localhost:8081/LoggingService
[2023-02-14 23:02:26.028] [info] GET STATUS: 200
[2023-02-14 23:02:26.028] [info] Sending GET to: http://localhost:8082/MessageService
[2023-02-14 23:02:26.028] [info] GET STATUS: 200
```

MessageService:

```
[2023-02-14 23:02:26.028] [info] Received GET from: 127.0.0.1:60586
```

LoggingService:

```
[2023-02-14 23:02:26.027] [info] Received GET from: 127.0.0.1:41090  
[2023-02-14 23:02:26.027] [info] GET response: testMsgAnother;testMsg3;
```
