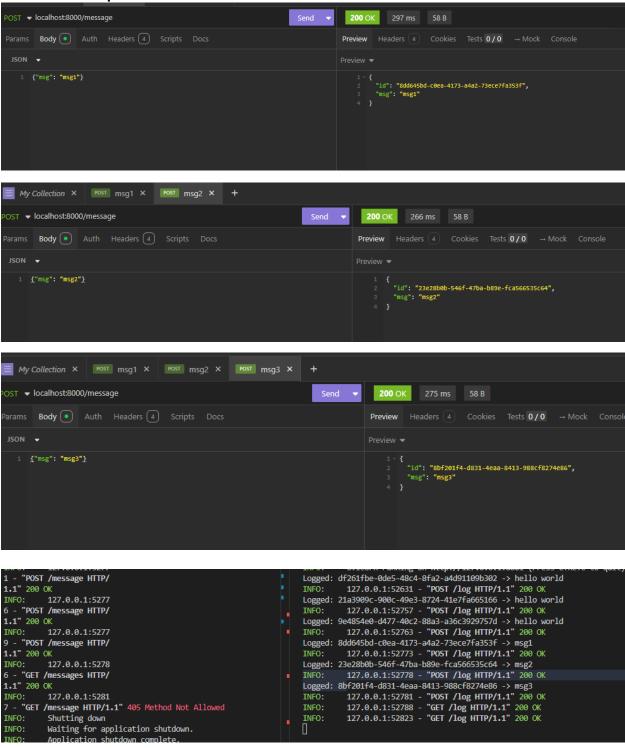
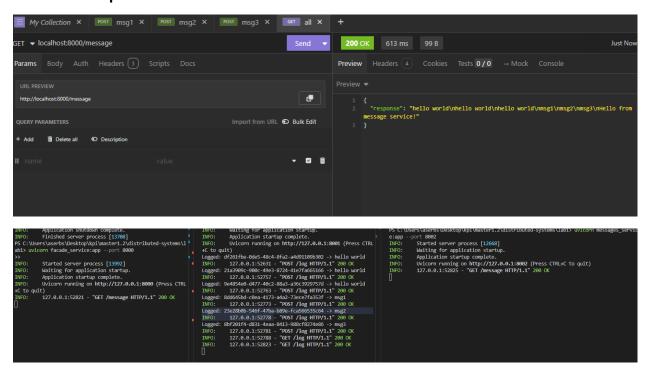
Сербіненко Олексій Фб-42мп

HTTP POST request flow



HTTP GET request flow

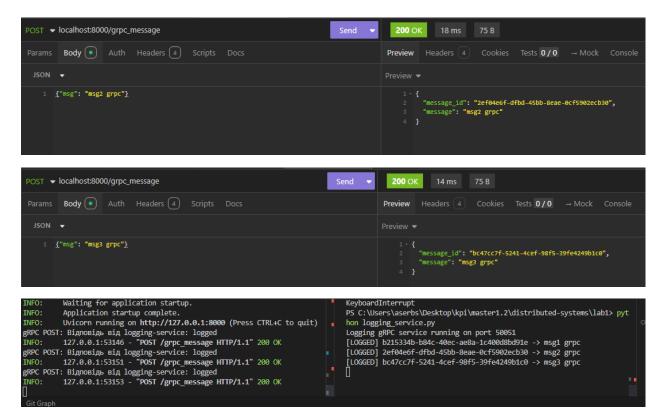


Grpc

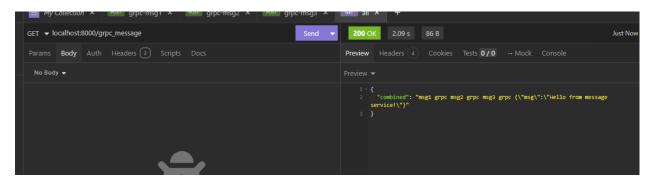
```
PS C:\Users\aserbs\Desktop\kpi\master1.2\distributed-systems\lab1> python -m grpc_tools.protoc -I. --python_out=. --grpc_python_out=. logging.proto PS C:\Users\aserbs\Desktop\kpi\master1.2\distributed-systems\lab1>
 PS C:\Users\aserbs\Desktop\kpi\master1.2\distributed-systems\lab1> python logging_service.py
 Logging gRPC service running on port 50051
PS C:\Users\aserbs\Desktop\kpi\master1.2\distributed-systems\lab1> uvic
 orn messages_service:app --port 8002
           Started server process [14512]
           Waiting for application startup.
           Application startup complete.
 INFO:
           Uvicorn running on http://127.0.0.1:8002 (Press CTRL+C to qui
 INFO:
PS <u>C:\Users\aserbs\Desktop\kpi\master1.2\distributed-systems\lab1</u>> uvicorn facade_service:app --port 800
0
INFO:
           Started server process [13512]
           Waiting for application startup.
INFO:
INFO:
            Application startup complete.
INFO:
           Uvicorn running on http://127.0.0.1:8000 (Press CTRL+C to quit)
```

post





Get



Retry

Bumkнy logging_service та відправлю повідомлення і через 3c увімкну logging

```
KeyboardInterrupt
PS C:\Users\aserbs\Desktop\kpi\master1.2\distributed-systems\lab1> pyt
hon logging_service.py
Logging gRPC service running on port 50051
[LOGGED] a6641f9e-67fa-40e1-935f-611cfc481e19 -> msg grpc check retry
```

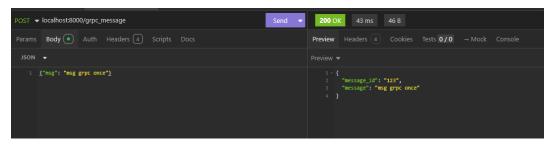
```
INFO: Uvicorn running on http://127.0.0.1:8000 (Press CTRL+C to quit)
INFO: 127.0.0.1:53184 - "GET /grpc_message HTTP/1.1" 200 OK
gRPC POST: Cnpo6a 1 не вдалася: <_InactiveRpcError of RPC that terminated w
ith:

status = StatusCode.UNAVAILABLE
details = "failed to connect to all addresses; last error: UNAVAILABLE: ipv4:127.0.0.1:5005
ConnectEx: Connection refused (No connection could be made because the target machine actively refu
it.
-- 10061)"
debug_error_string = "UNKNOWN:Error received from peer {grpc_message:"failed to connect to l addresses; last error: UNAVAILABLE: ipv4:127.0.0.1:50051: ConnectEx: Connection refused (No conne on could be made because the target machine actively refused it.\r\n -- 10061)", grpc_status:14, cred_time:"2025-04-22T14:33:34.817165+00:00"}"
>
gRPC POST: Відповідь від logging-service: logged
INFO: 127.0.0.1:53194 - "POST /grpc_message HTTP/1.1" 200 OK
```

exactly once delivery

для цього замість унікальних айді буде статична строка та приберу break з циклу

```
msg = message.msg
message_id = str(123)
request_proto = logging_service_pb2.LogRequ
retries = 5
```



```
[LOGGED] 123 -> msg grpc once
[DUPLICATE] 123
```