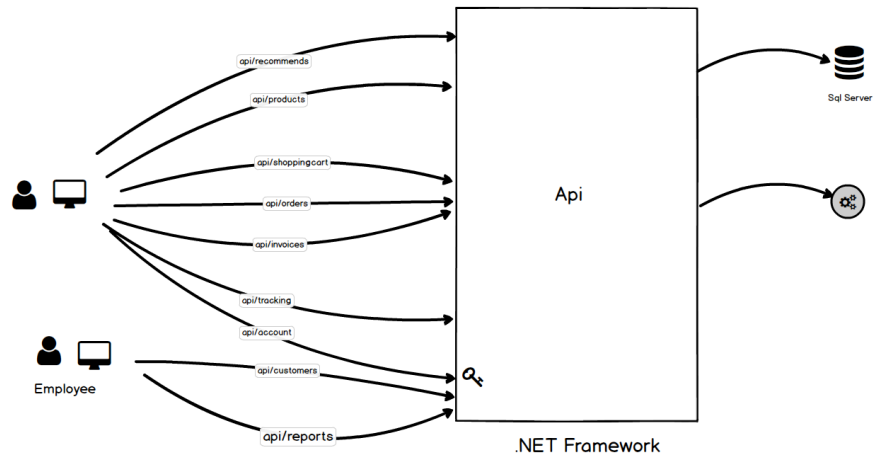
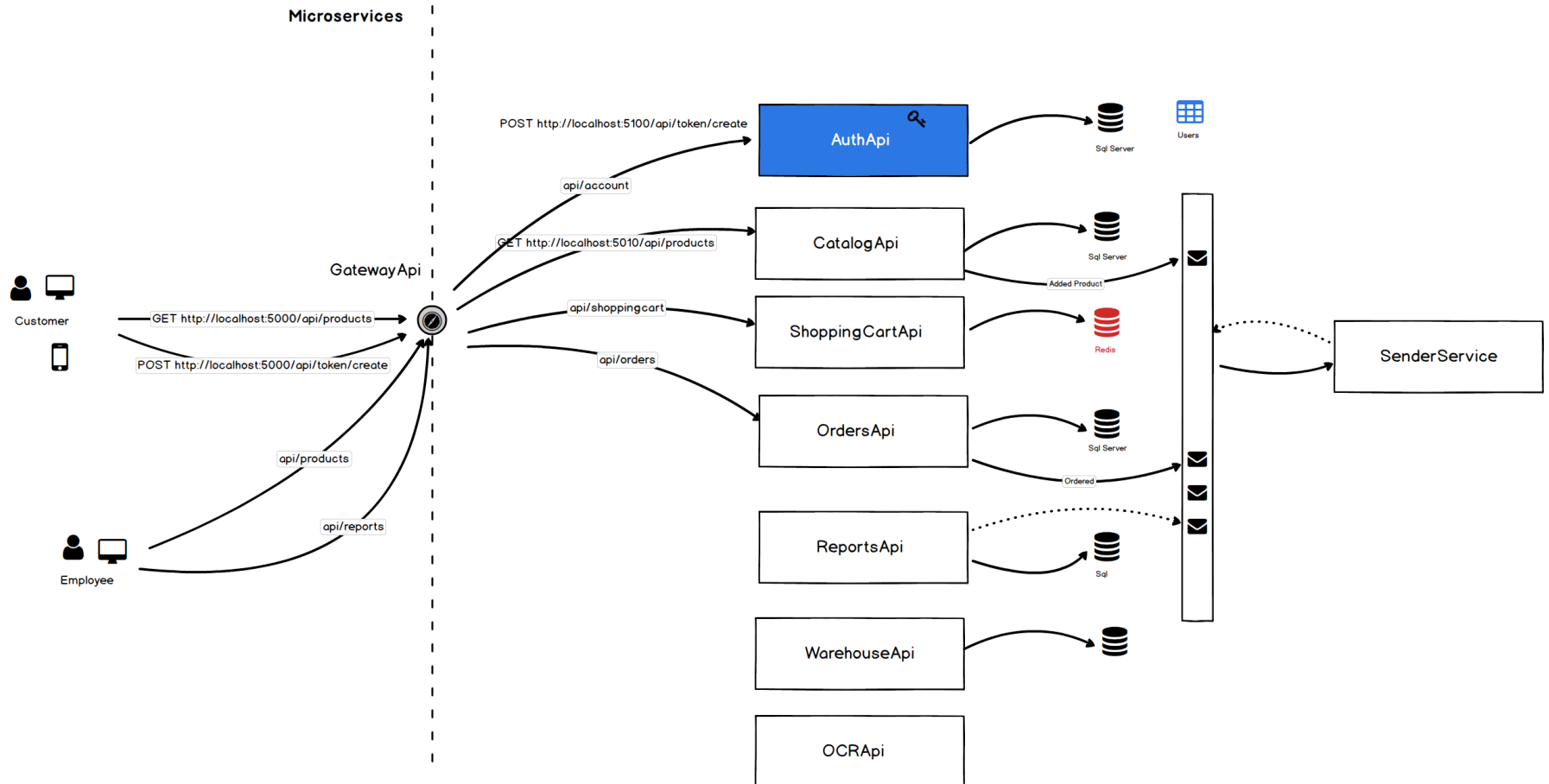


## Monolit



## Microservices



# SOAP

```
POST /service.svc HTTP/1.1
host: localhost
Content-Type: xml+soap

<xml>
<soap:Envelope>
<soap:Body>
  <AddProduct>
    <Product>product 1</Product>
  </AddProduct>
</soap:Body>
</soap:Envelope>
```

POST

# RPC

+

AddProduct(Product product)

-

RemoveProduct(int id)

Q

Get(string color)

Q

Get(int id)

# RESTFull

```
GET /api/products/1 HTTP/1.1
host: localhost
Accept: application/xml

200 OK
Content-Type: application/json

{
  "Id": 1,
  "Name": "Product 1"
}

POST /api/products/1 HTTP/1.1
host: localhost
Content-Type: application/json
{
  "Name": "Product 2"
}
```

GET api/products?page=10

GET api/products?fields=Name,Price

GET api/products

GET api/products/{id}

POST api/products

PUT/PATCH api/products

DELETE api/products/{id}

GET api/products/{id}/customers

# Resources

Products

[HttpGet]

Q

Get(string color)

[HttpGet]

Q

Get(int id)

+

AddProduct(Product product)

UpdateProduct(Product product)

-

RemoveProduct(int id)

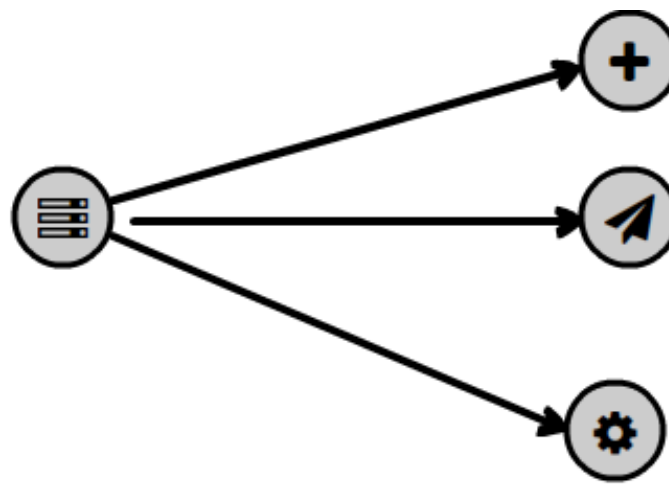
# OData

GET api/products?select=Name,Priceorder by=Pricefilter color eq red

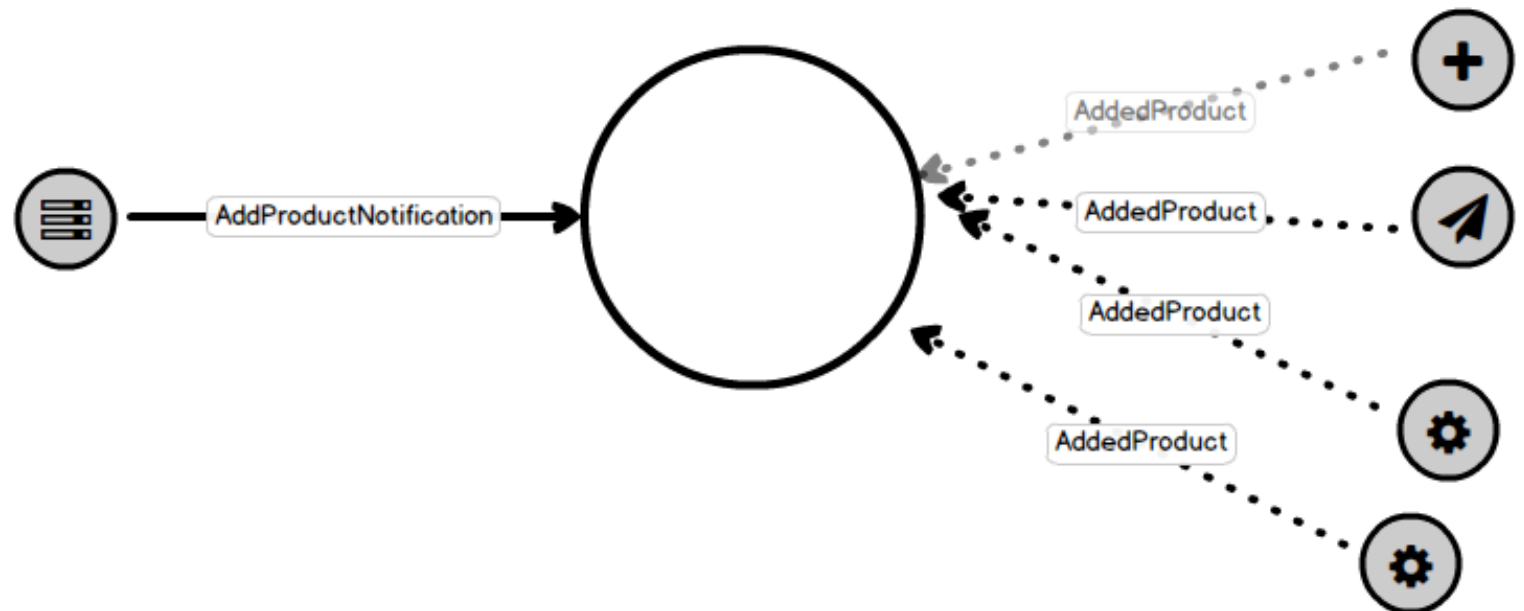
# GraphQL

```
POST /graphql HTTP/1.1
host: localhost

{
  "Products": { name, price,
  Customers }
}
```



## Mediator



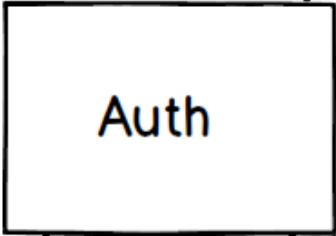
GET /api/products/1 HTTP/1.1  
host: localhost  
Accept: application/xml



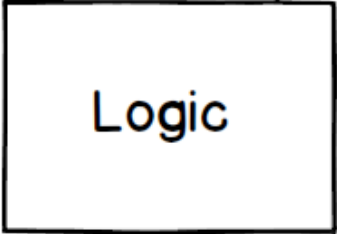
Use()

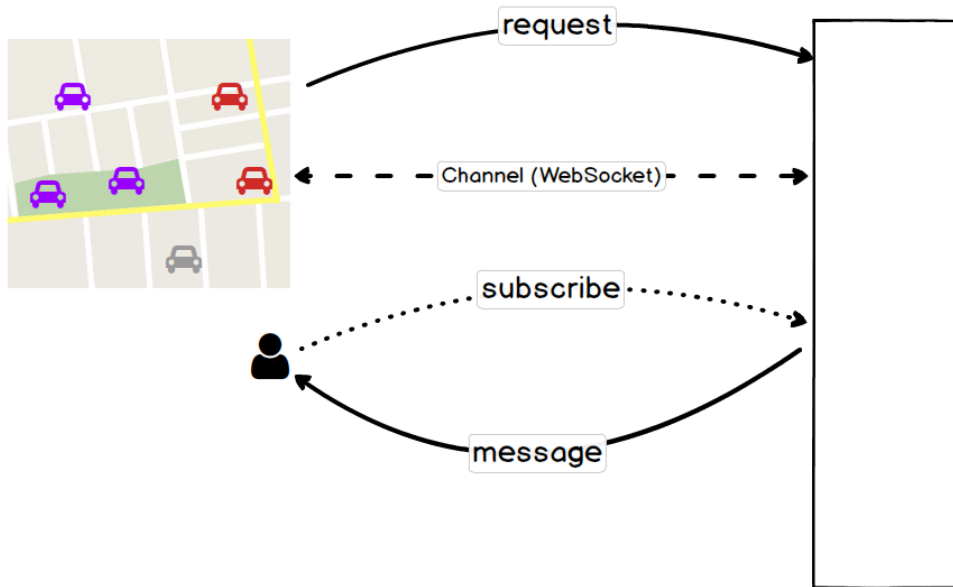
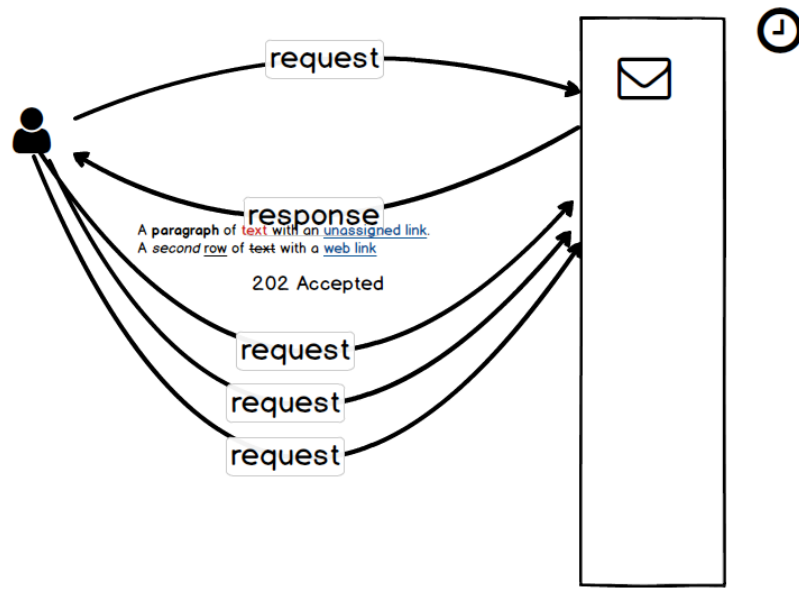


Use()

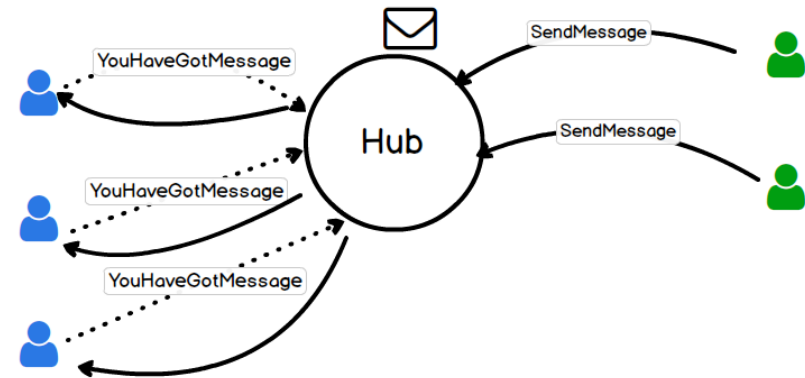


next

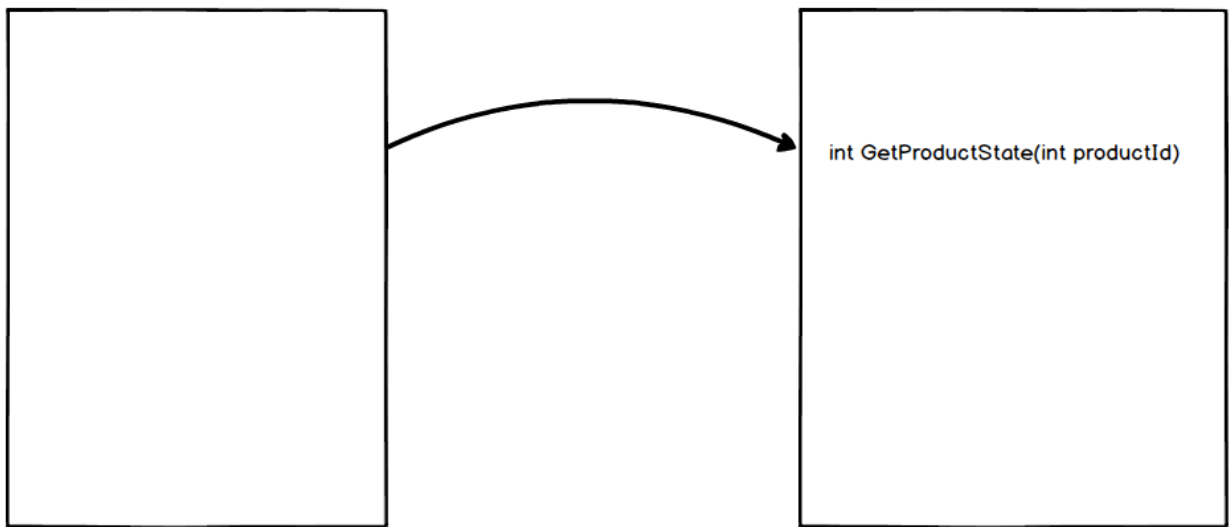




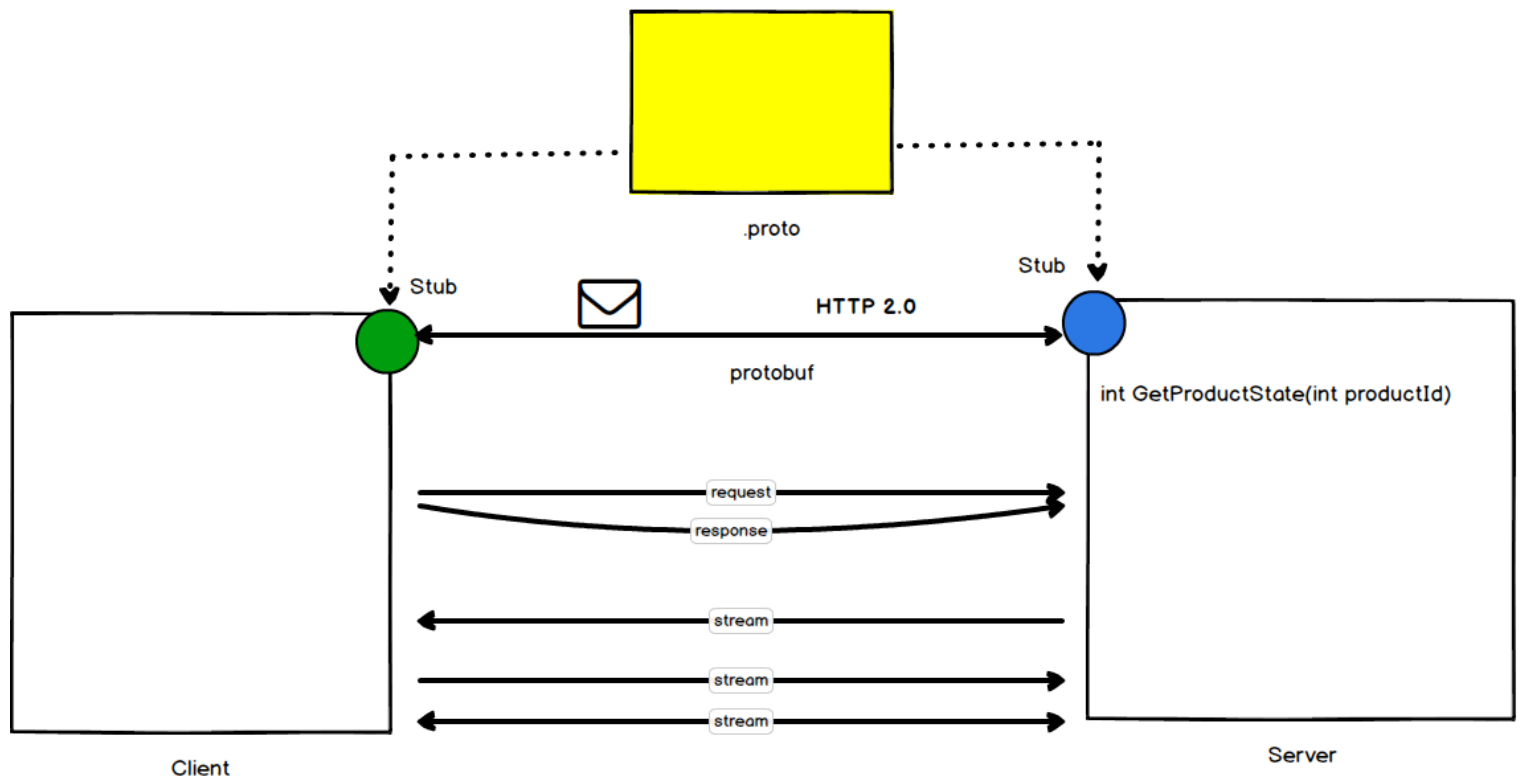
## Signal-R

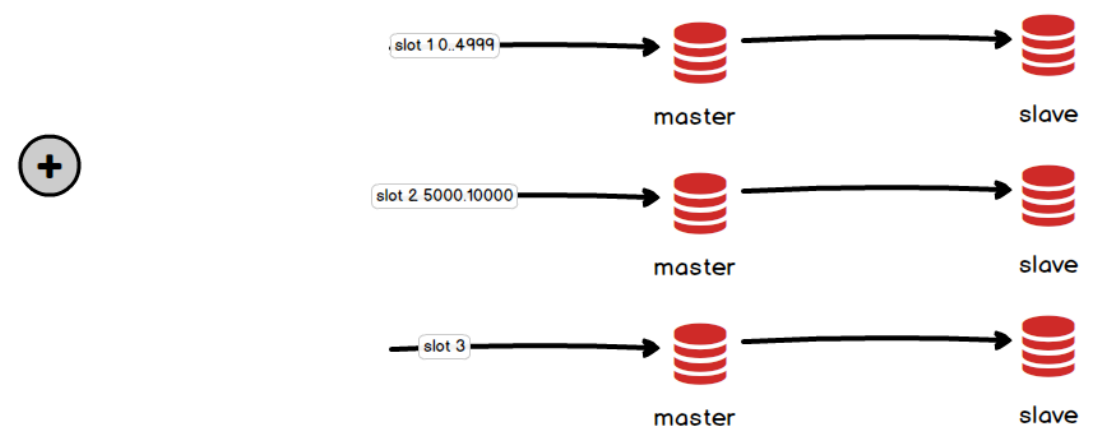
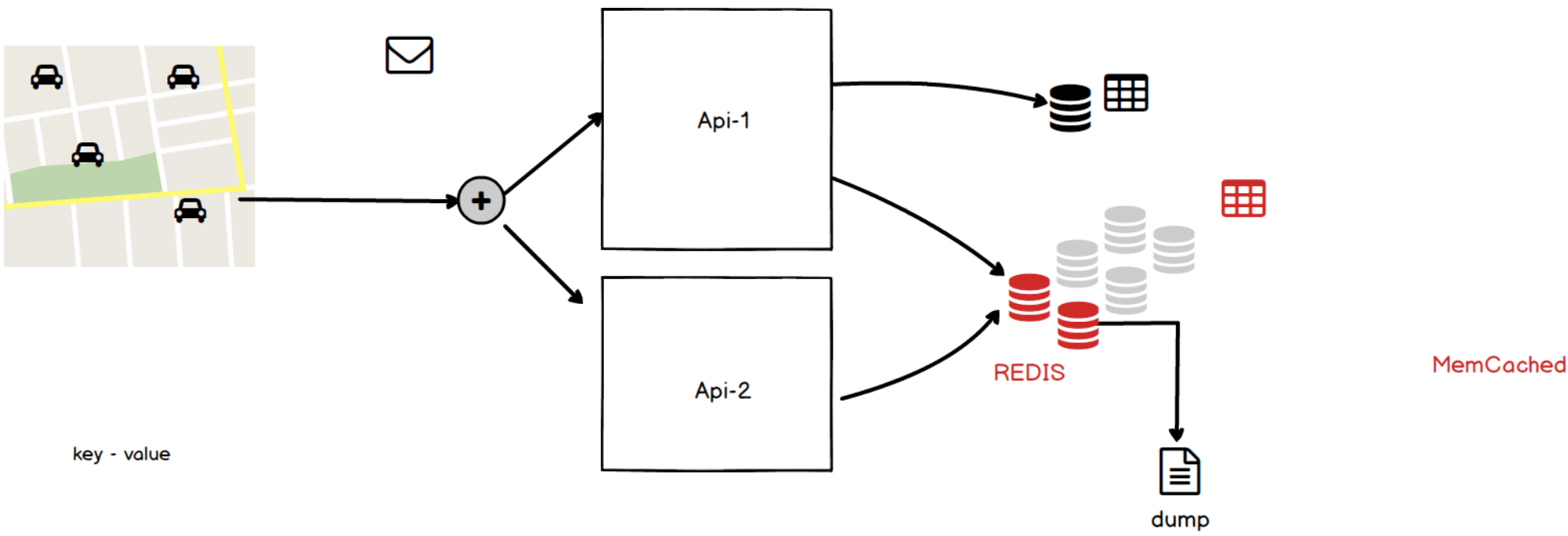


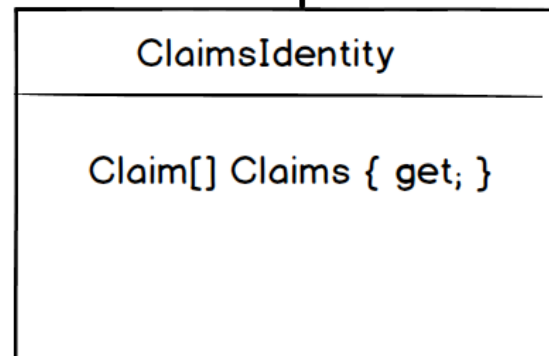
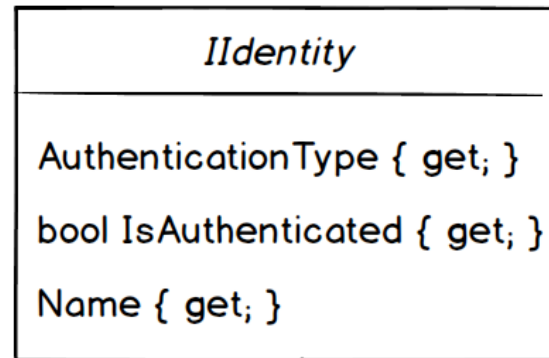
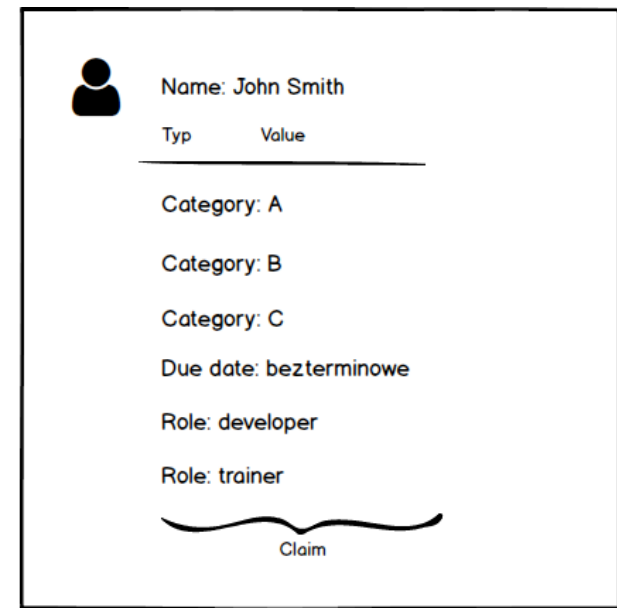
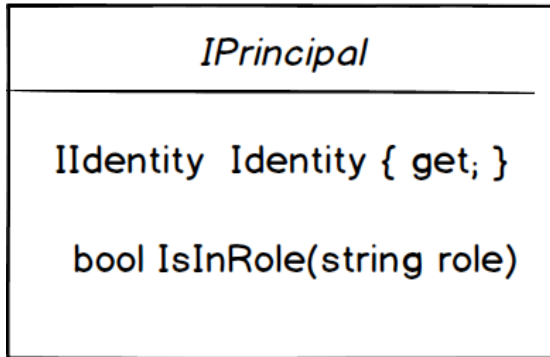
# RPC



# gRPC











Login

Password

Handler



Token



ACCCCC

exp:

BCCCC  
XCCCC  
YCCCC  
ZCCCC  
QCCCC

POST /service.svc HTTP/1.1  
host: localhost  
Content-Type: application/json  
Authorization: Basic Base64({login}:{password})

GET /service.svc HTTP/1.1  
host: localhost  
Content-Type: application/json  
Authorization: Basic Base64({login}:{password})


GET /service.svc HTTP/1.1  
host: localhost  
Content-Type: application/json  
Authorization: Bearer {token}  
Cookies: {value}



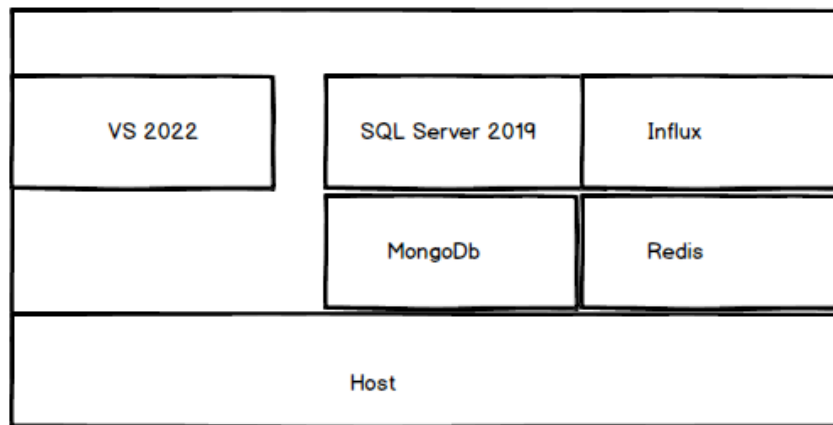
Authorization: {scheme} {parameter}

JWT (Json Web Token)

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiIxMjM0NTY3ODkwIiwibmFtZSI6IkpvaG4gRG9lIiwiaWF0IjoxNTE2MjM5MDIyfQ.SflKxwRJSMeKKF2QT4fwpMeJf36POk6yJV\_adQssw5c



The diagram illustrates the structure of a JWT token. It consists of three parts separated by dots: the Header, the Payload, and the Signature. The Header is the first part, the Payload is the second part, and the Signature is the third part.



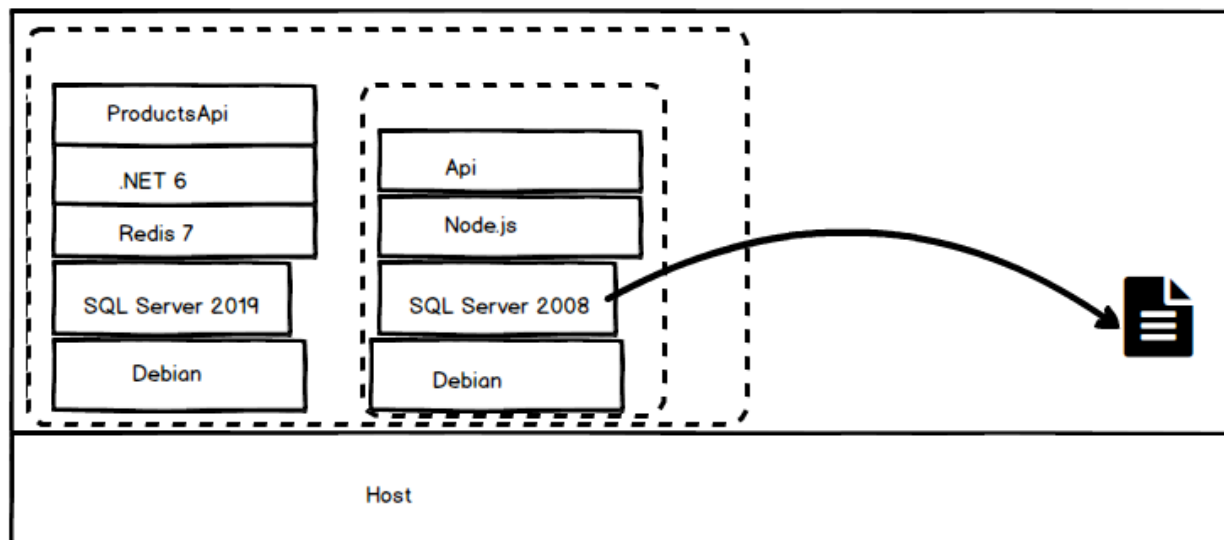
Image

Container

Container

Container

Container



DockerCompose compose.yml

> DockerCompose up