

Azure Meetup

**FRANKFURT**

# CQRS 3.0

The Serverless Solution

---

# Agenda

---

From OOP to CQRS

What is CQRS

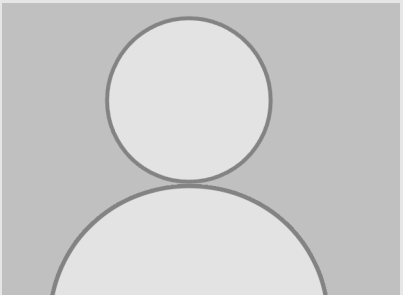
CQRS and its types

# OOP

(object oriented programming)

# What the books says

```
public class Car
{
    int price;
    String name;
    String color;
    int engineCapacity;
    int engineHorsePower;
    String wheelName;
    int wheelPrice;
    void move()
    {
        //move forward
    }
    void rotate()
    {
        //Wheels method
    }
    void internalCombustion()
    {
        //Engine Method
    }
}
```



## A real OOP Car

```
public class Car
{
    Engine engine = new Engine();
    Wheel wheel = new Wheel();
    int price;
    String name;
    String color;
    void move()
    {
        //move forward
    }
}
```

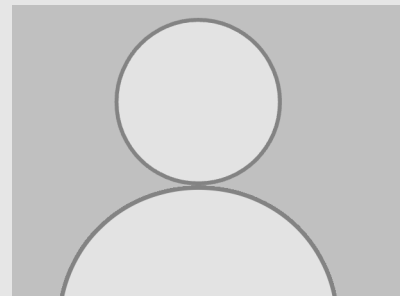
```
public class Engine
{
    int engineCapacity;
    int engineHorsePower;

    void internalCombustion()
    {
        //Engine Method
    }
}

public class Wheel
{
    String wheelName;
    int wheelPrice;

    void rotate()
    {
        //Wheels method
    }
}
```

## What the books meant

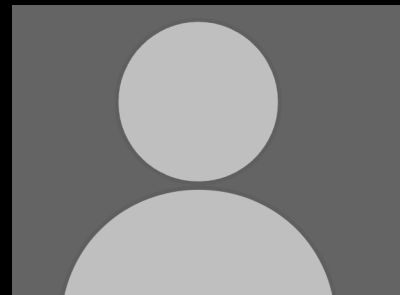


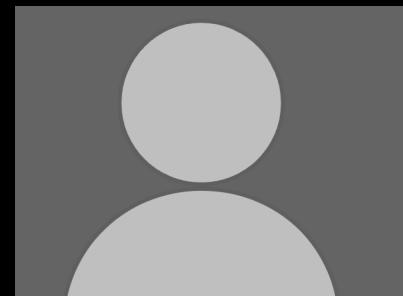
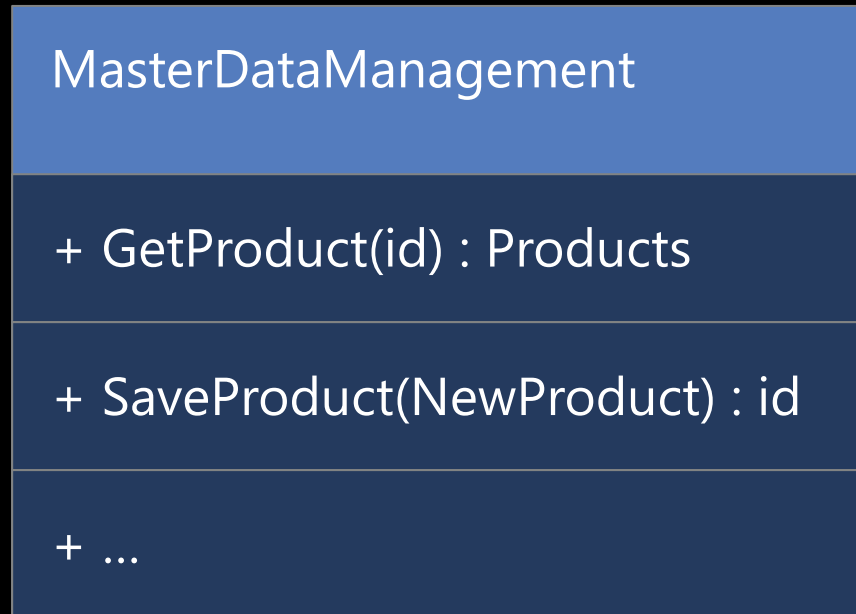
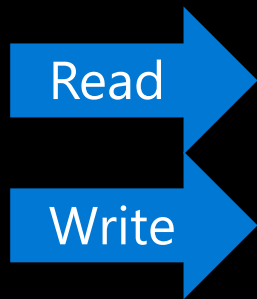
## MasterDataManagement

+ GetProduct(id) : Products

+ SaveProduct(NewProduct) : id

+ ...







# CQS

(command query segregation)

MasterDataReader

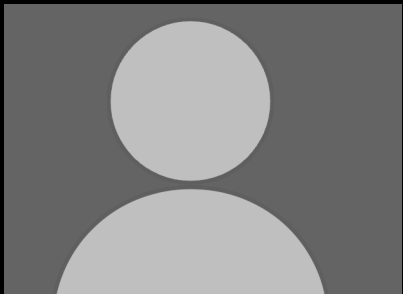
+ GetProduct(id) : Products

+ ...

MasterDataWriter

+ SaveProduct(NewProduct) : id

+ ...



MasterDataReader

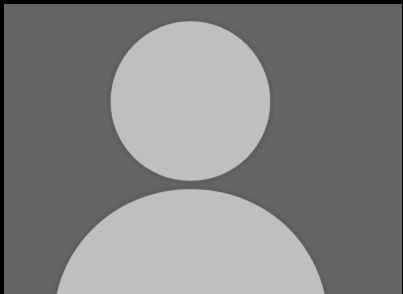
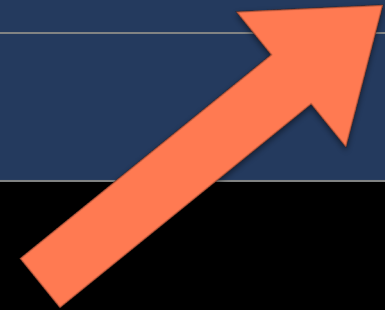
+ GetProduct(id) : Products

+ ...

MasterDataWriter

+ SaveProduct(NewProduct) : id

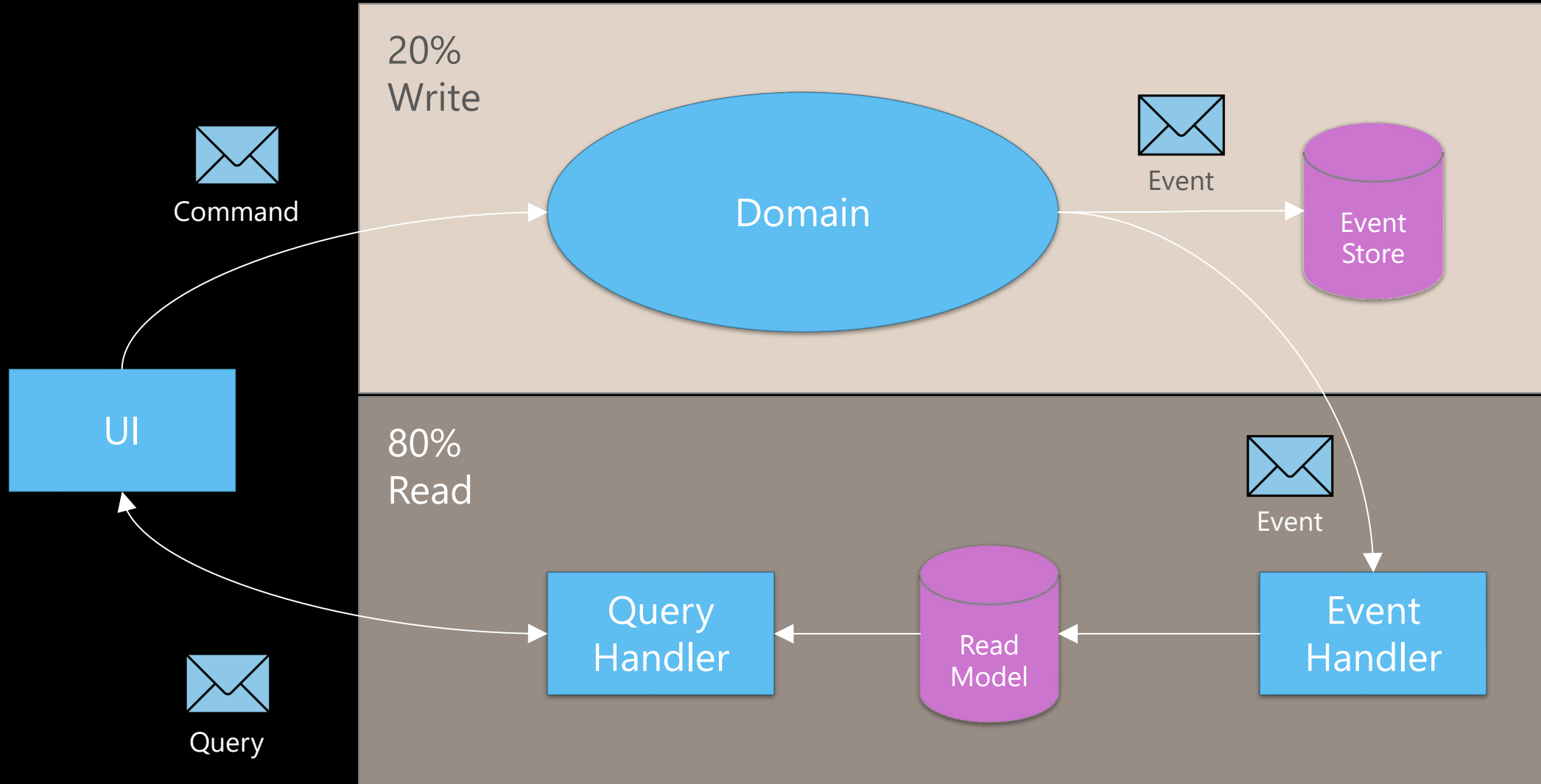
+ ...



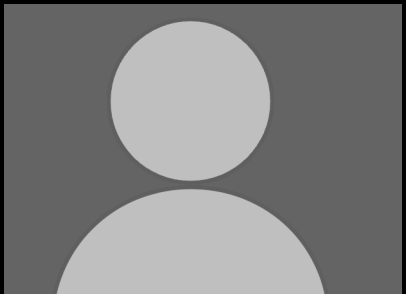
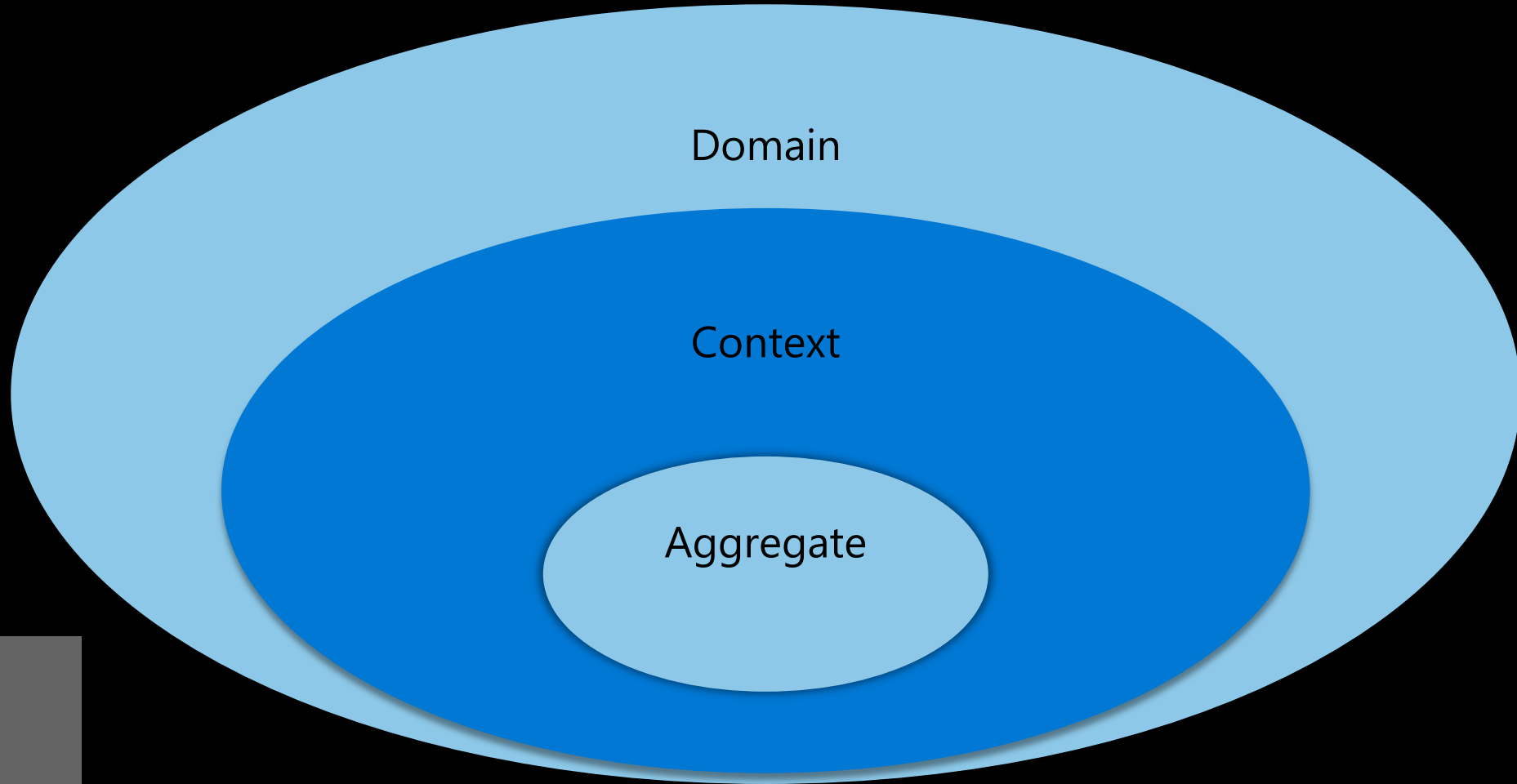
# CQRS

(command query responsibility segregation)

# CQRS als Übersicht

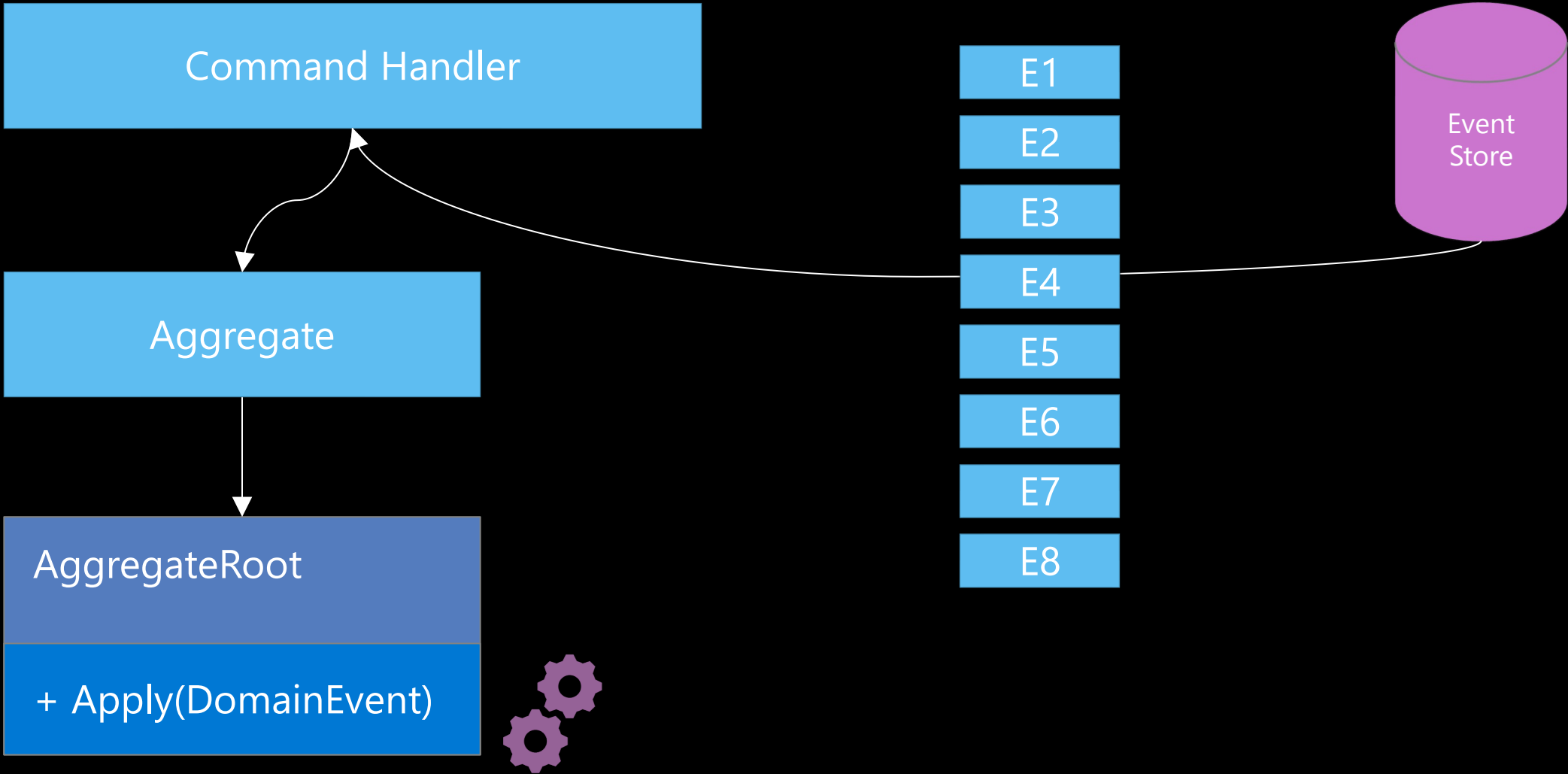


# Domain-Driven Design und CQRS



# Variants of CQRS

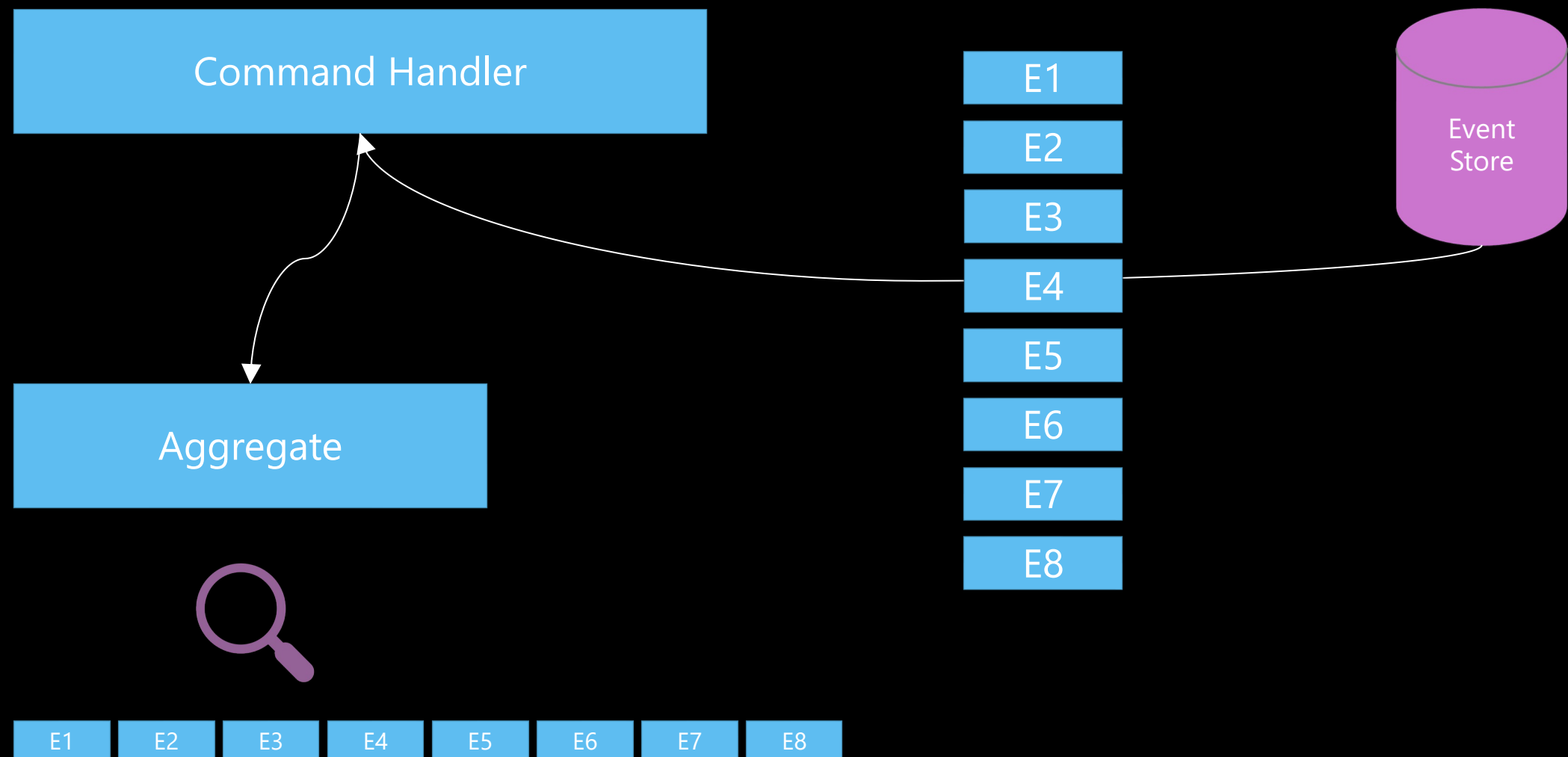
CQRS 1.0



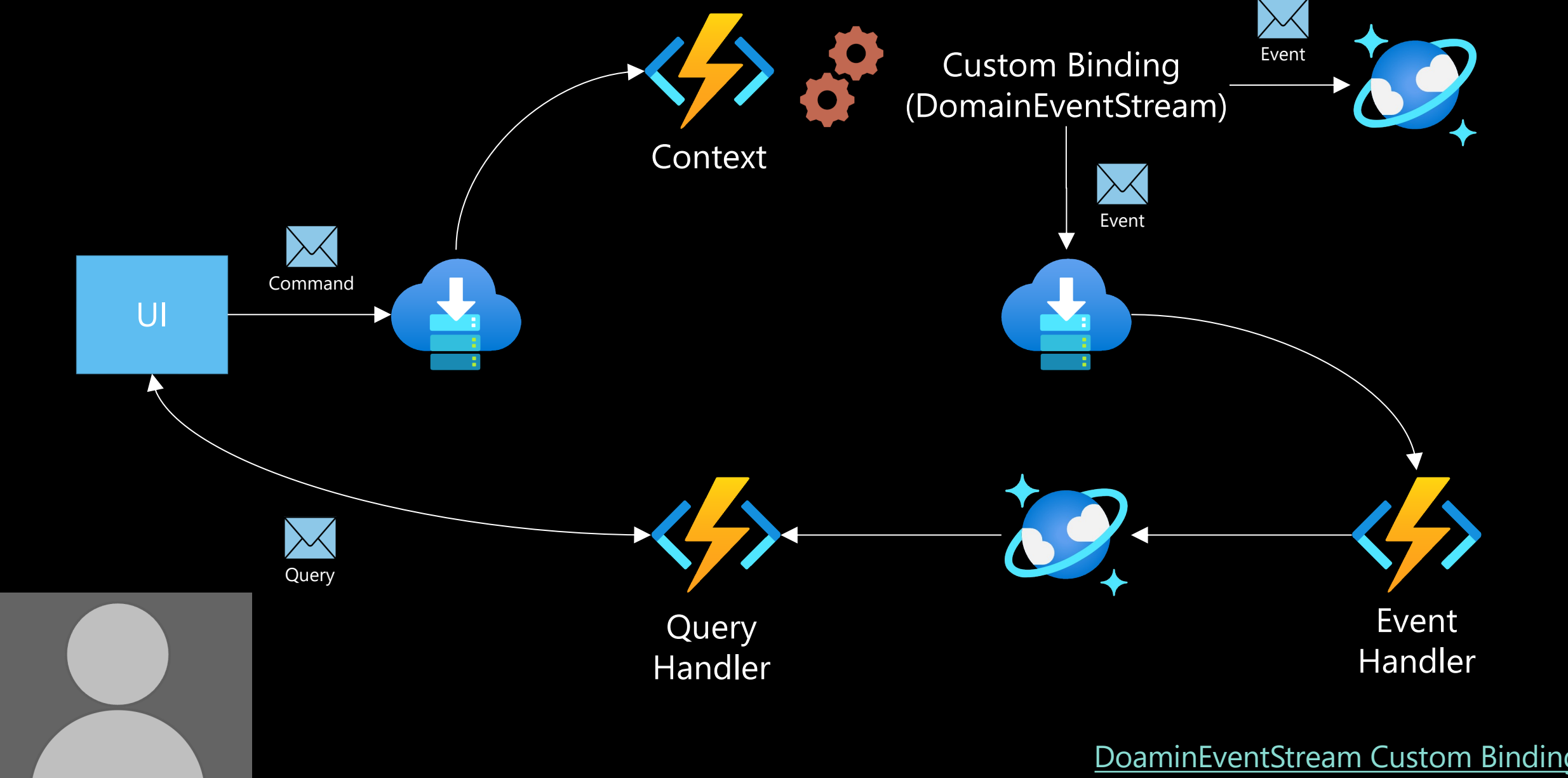
[Sample for Apply Method](#)



CQRS 2.0



CQRS 3.0



IT MIGHT NOT

that necessary or major

x x x BUT x x x

~~~~~  
CQRS 3.0

~~~~~  
☞ is smoother and ☞

MORE EFFECTIVE

because of

• • • *serverless* • • •

*and cloud driven*

# About me

Janek Fellien

Cloud Architect and Consultant at medialesson GmbH

Microsoft Azure MVP

@janekf

fellien@medialesson.de