# From EventStorming To EventStore



**Passing through BDD** 

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# Connect the dots ...

- 1 EventStorming
- 2 Event Sourcing
- 3 CQRS

4 Behavior-Driven Development

#### **Disclaimer**

- Event Sourcing and CQRS are orthogonal concepts.
- You can apply DDD patterns without implementing CQRS



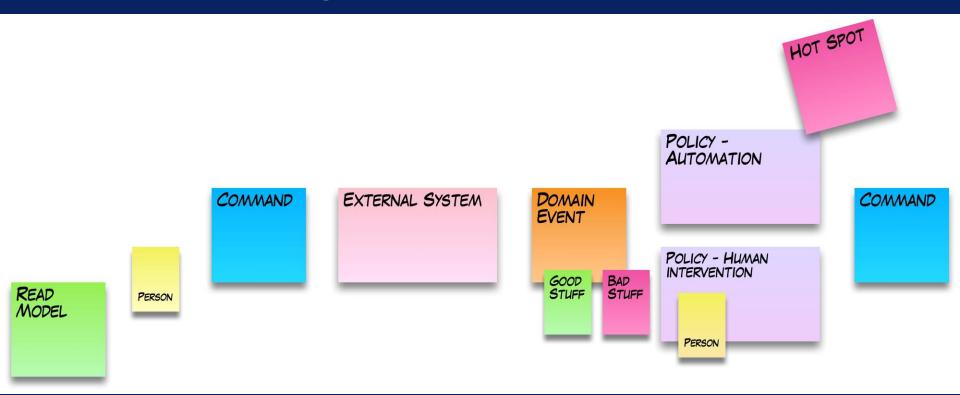
# Why EventStorming?

If the goal is to learn the complexity of the domain in its different facets and possible inconsistencies, then why not involve all the key experts and build with them a model of the behaviour of the domain as a whole?

### What is EventStorming?

1 Big Picture
2 Process Modelling
3 Software Design

### **Process Modelling Notation**



## **Software Design**





#### Focus on ...

**Command / Action - written in first person like 'Create Sales Order'** it represents a user or a system intention.

**Event** - something that happened, a state transition, usually the result of executing some action / command.

**Aggregate** – the name is not important, bit the role is. A software component whose internals and responsibilities we're designing.

#### What is Event Sourcing?

Event Sourcing is an architectural pattern where changes that occur in a domain are immutably stored as events in an append-only log.

#### **How it Works?**







In an event sourced system, the status change would be captured as an event «OrderPaymentReceived» and stored in the append-only log in the order in which it occurred

#### **EventStoreDB**

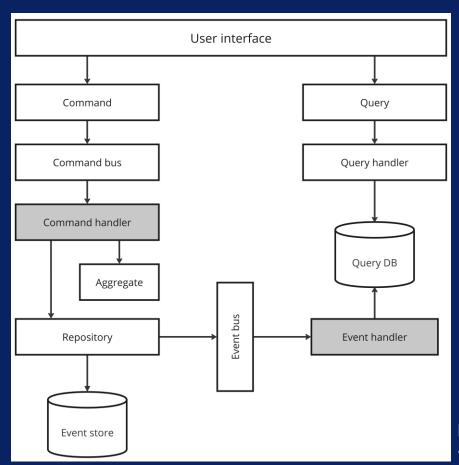


EventStoreDB is an open-source eventdriven database, built to support Event Sourcing.

# Command Query Responsability Segregation - CQRS

Command Query Responsability
Segregation (CQRS) is the segregation of
the responsabilities of the commands and
queries in a system. That means that we're
slicing our application logic vertically.

### **CQRS Flow**

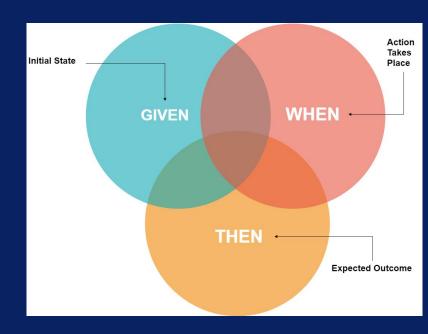




**Show me the Code!** 

#### **Behavior-Driven Development (BDD)**

- The **Given** statement sets up the initial context for the behavior and defines the starting point of the system.
- The **When** statement describes the trigger that brings about a change or behavior in the system.
- The **Then** statement defines the expected outcome that should be observed after the mentioned in the When statement.







**Show me the Code!** 

# Thank You!







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https://github.com/BrewUp/EventStoreDB-Course-2024



https://github.com/ace68



