



Domain-driven Rearchitecting

Architecture modernization with the
„Domain-from-Legacy“ Canvas



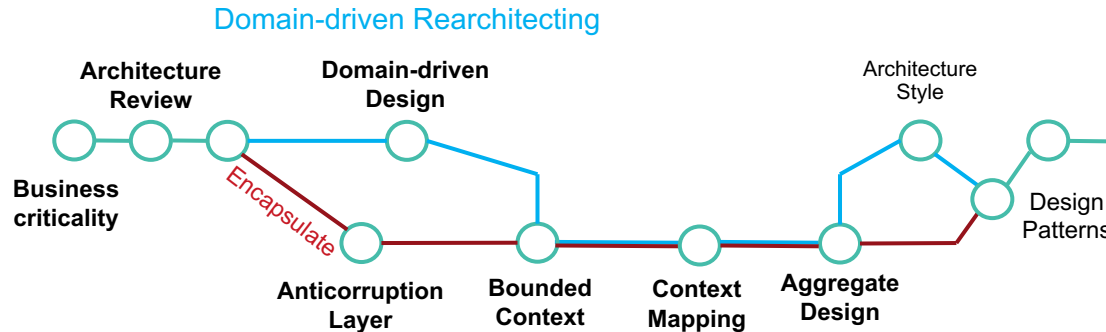
Our Routes

Rearchitect

The architecture of the application will be rethought!

Encapsulate

Enables modernization in small manageable steps!



Bad Atmosphere ...



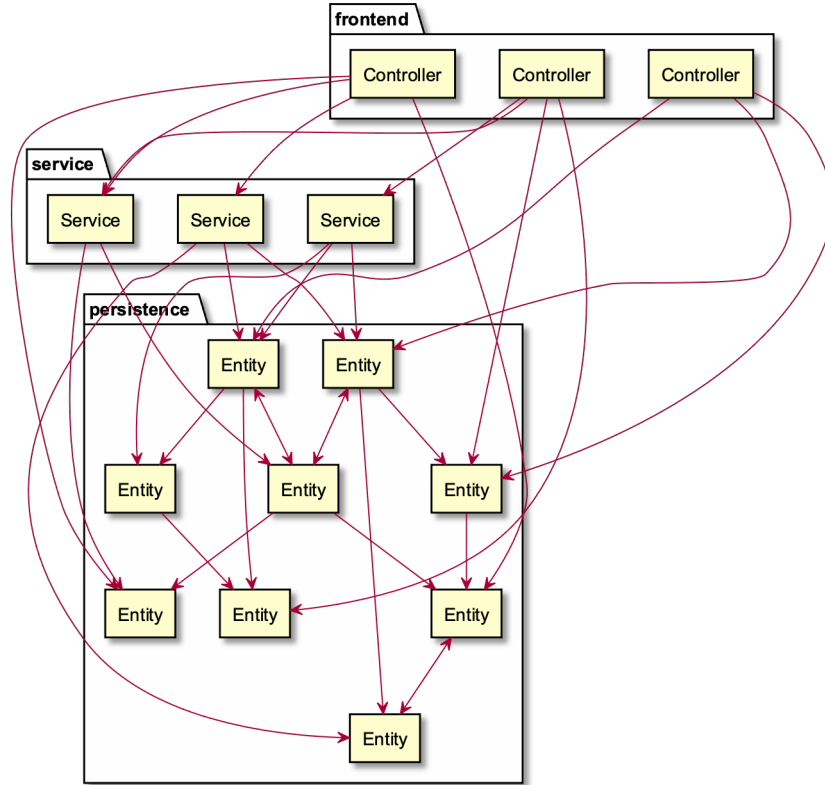
Dilbert from Scott Adams

Dilbert Is Struggling With ...

- High complexity
- Low comprehensibility
- Missing flexibility

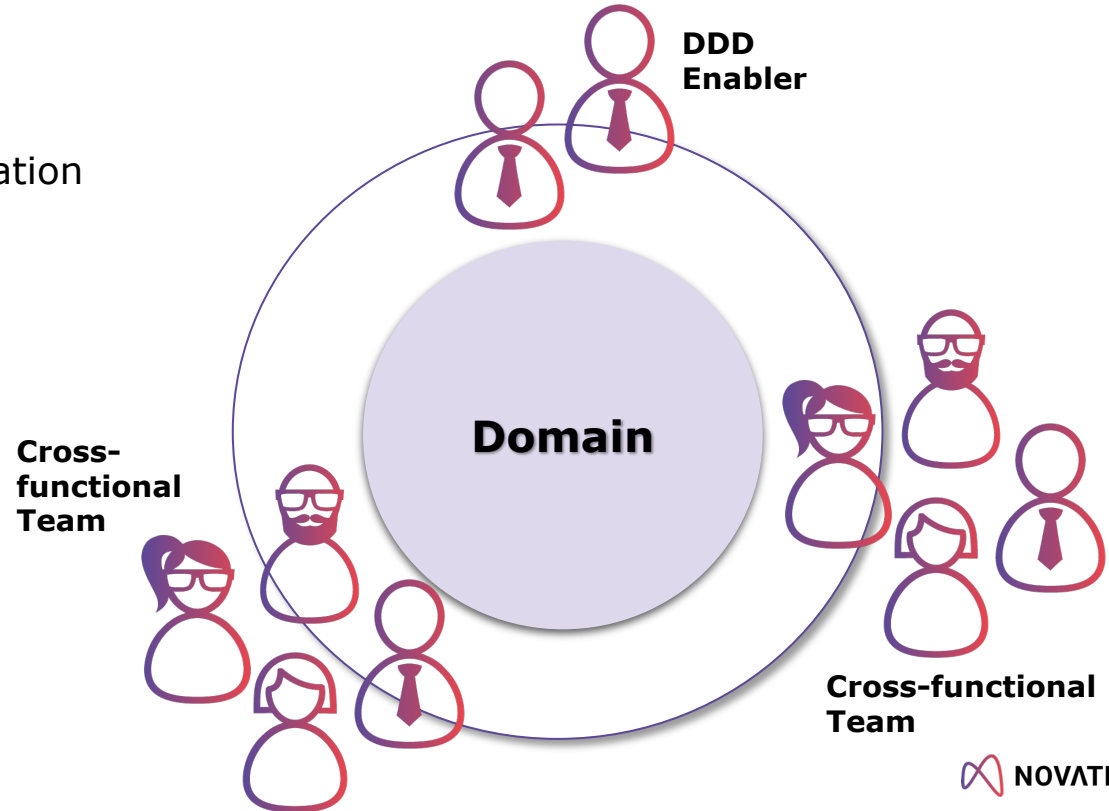


https://dilbert.com/search_results?terms=Frustration

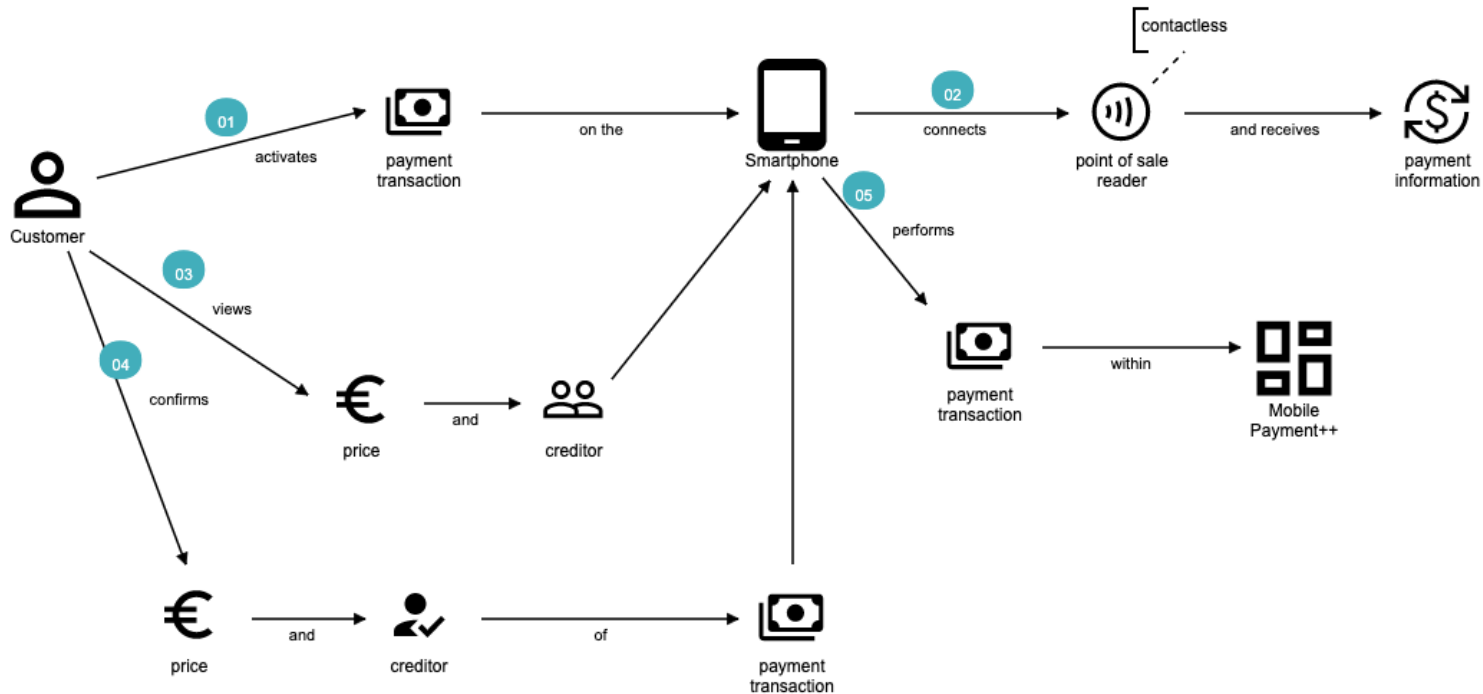


Energizing with Collaboration and Domain-driven Design

- Facilitating and Enabling
- Get experience in collaboration
- Share knowledge
- Support communication
- Connect the teams
- Think in new ways



Mobile Payment



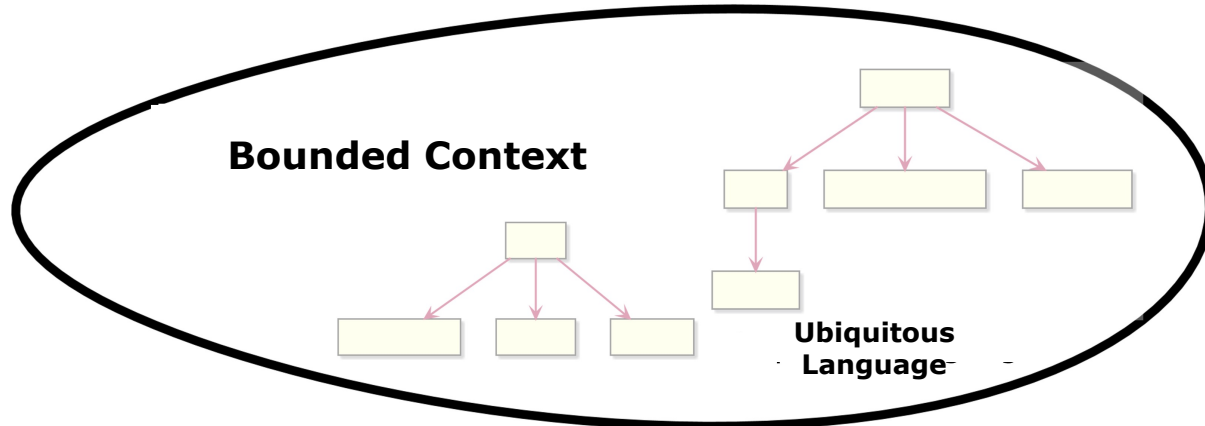
Strategic Domain-driven Design

Bounded Context

- Explicit boundary around the meaning of a model
- Independent software artifact

Ubiquitous Language

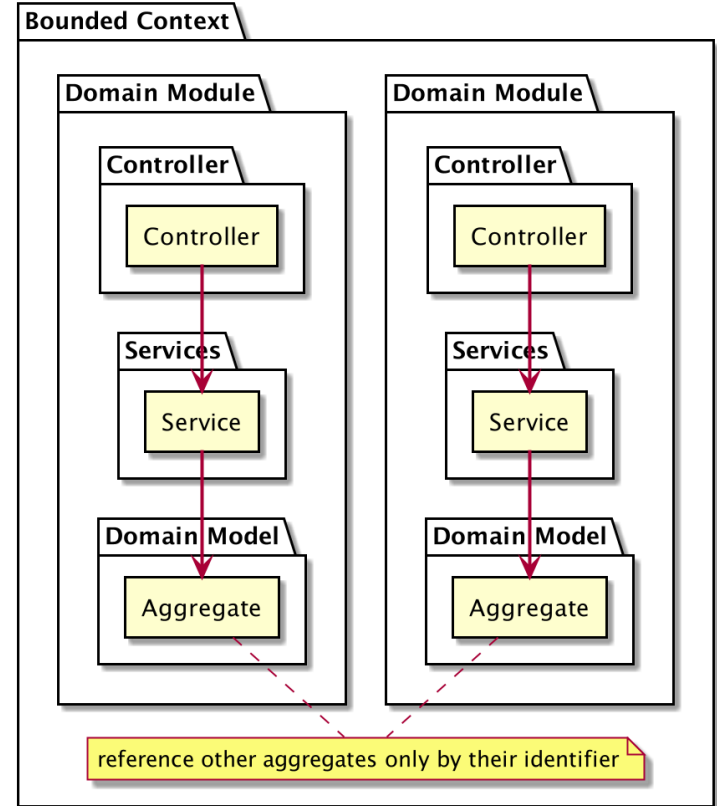
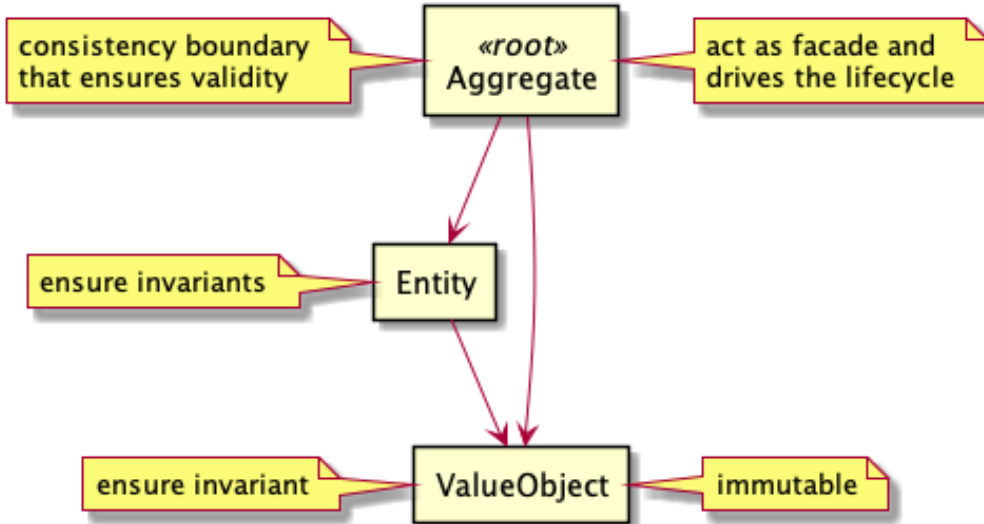
- The domain language in different forms
- language, models and code



Tactical Domain-driven Design

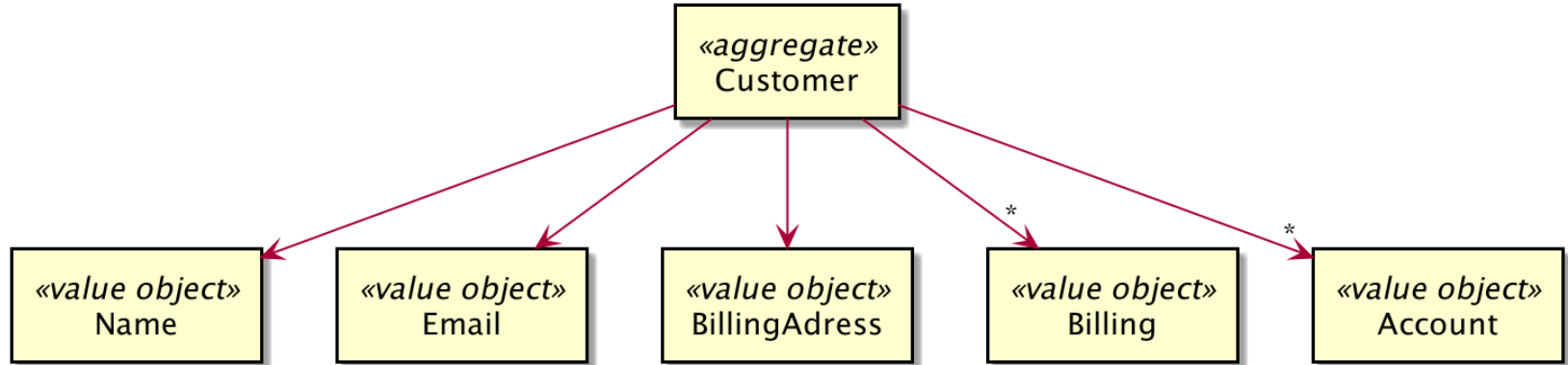
Aggregate, Entity and Value Object

DDD Building Blocks

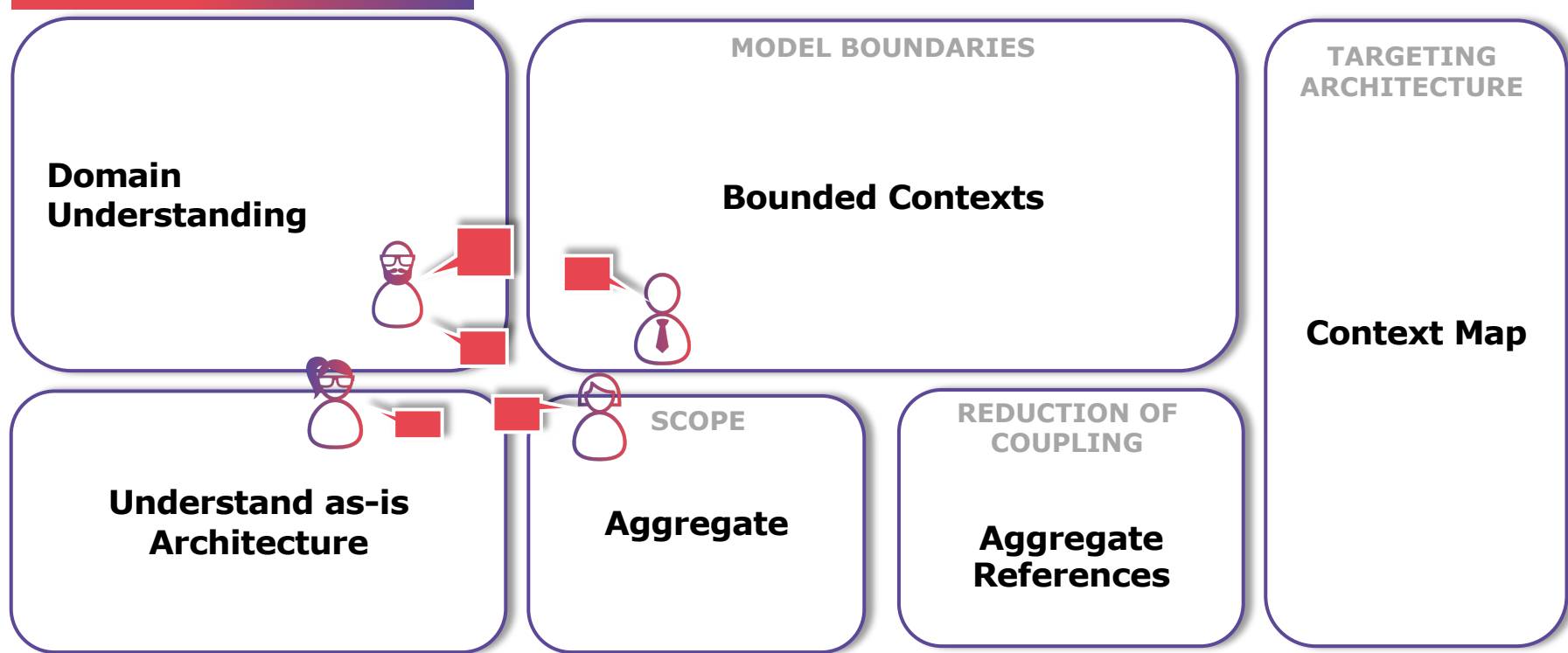


Tactical Domain-driven Design

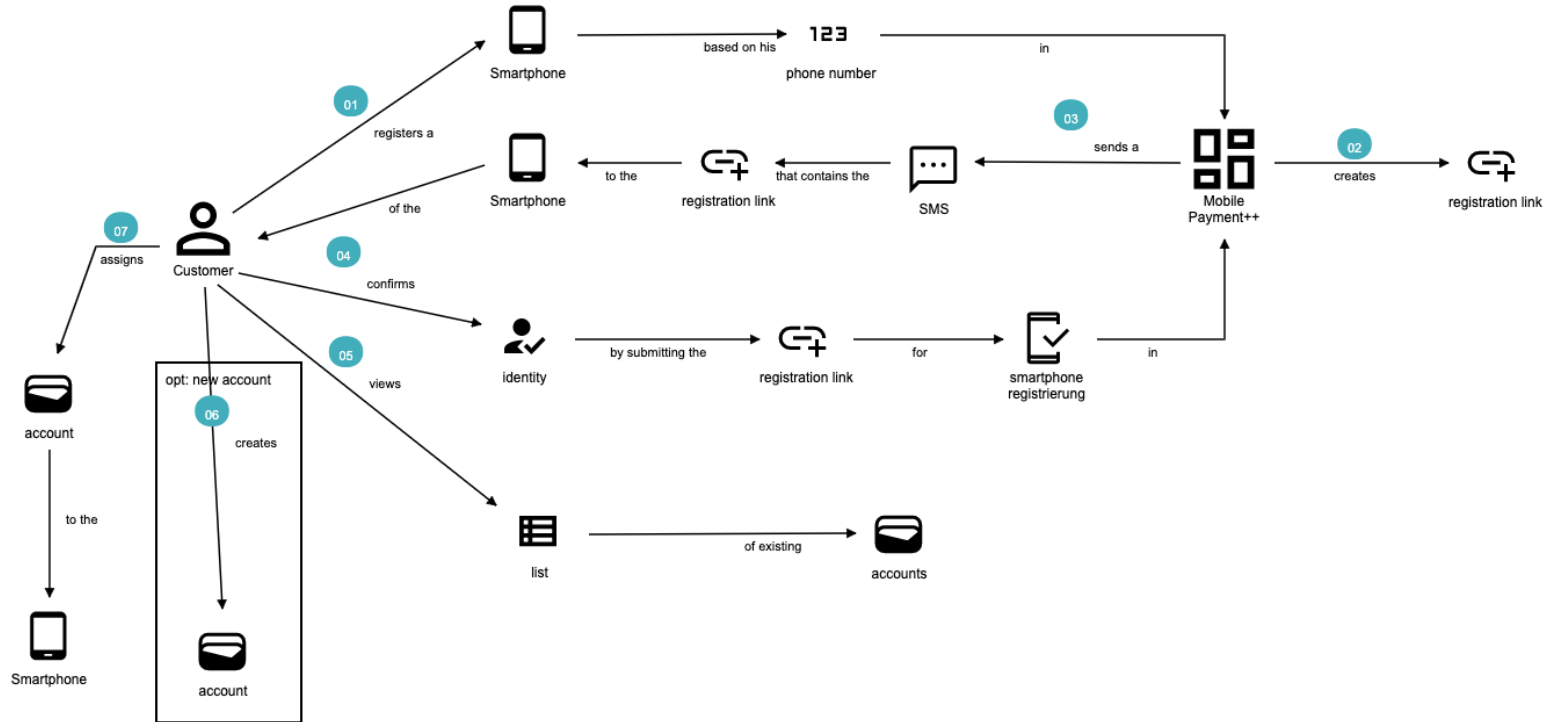
Aggregate, Entity and Value Object

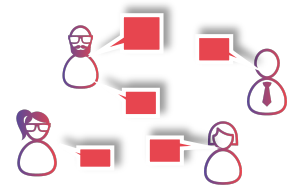


Domain-from-Legacy Canvas

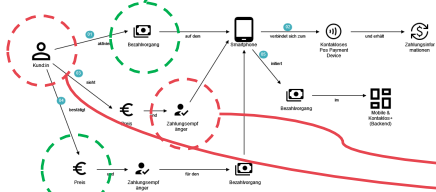


Make the Implicit Explicit



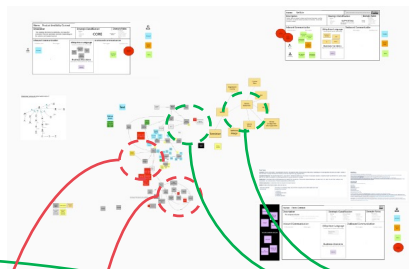


Domain Understanding

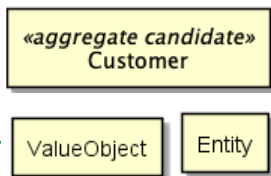


Understand as-is Architecture

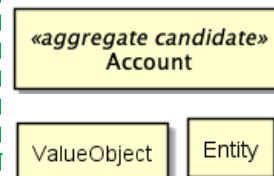
MODEL BOUNDARIES Bounded Contexts



Aggregate



Aggregate References

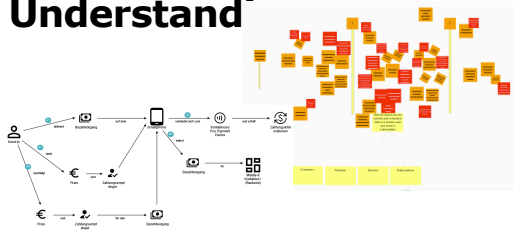


TARGETING ARCHITECTURE

Context Map

Improve the Current State (Really) Fast

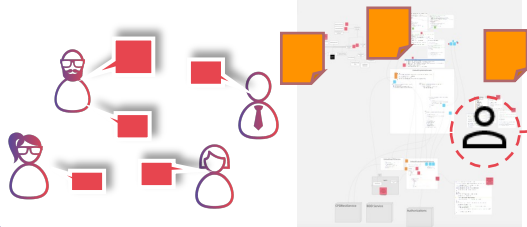
Domain Understand



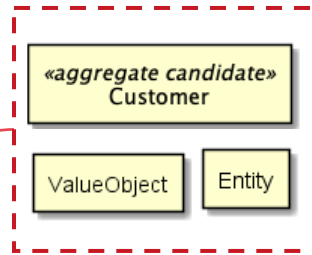
MODEL BOUNDARIES
Bounded Contexts

TARGETING
ARCHITECTURE

**Understand as-is
Architecture**



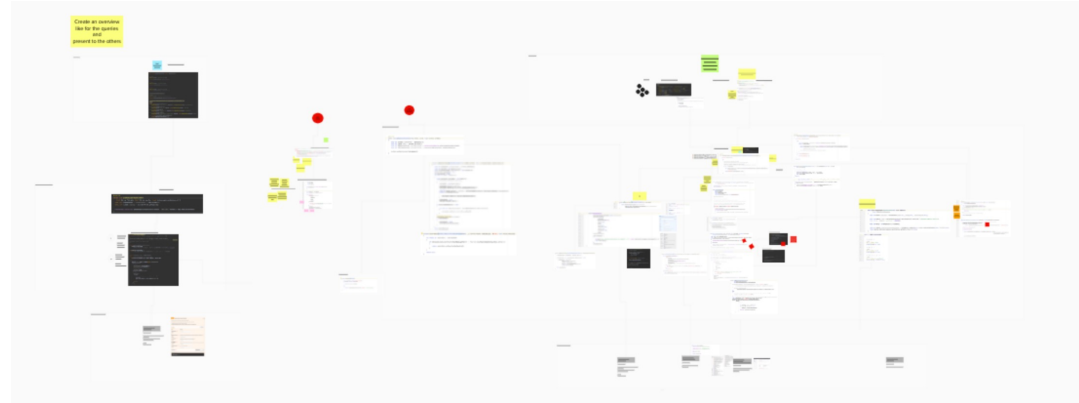
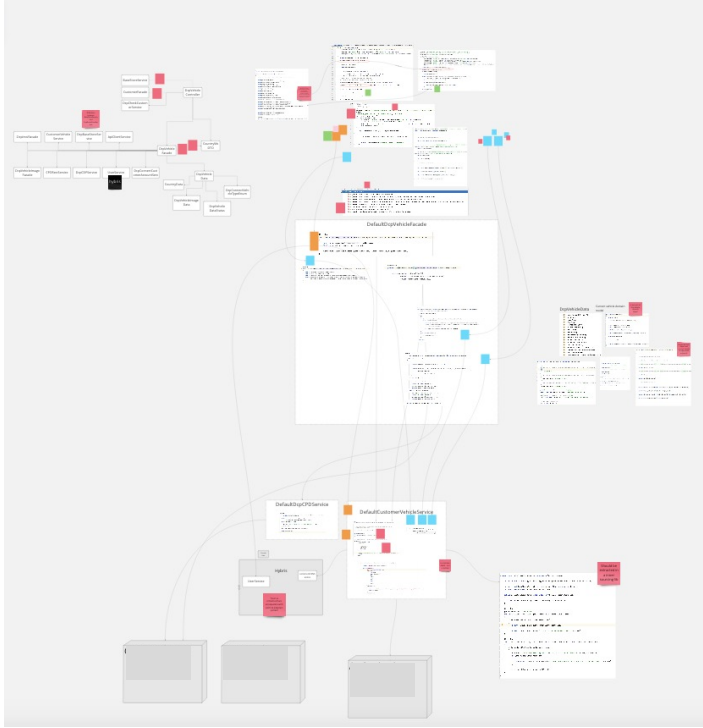
Aggregate



**Aggregate
References**

Context Map

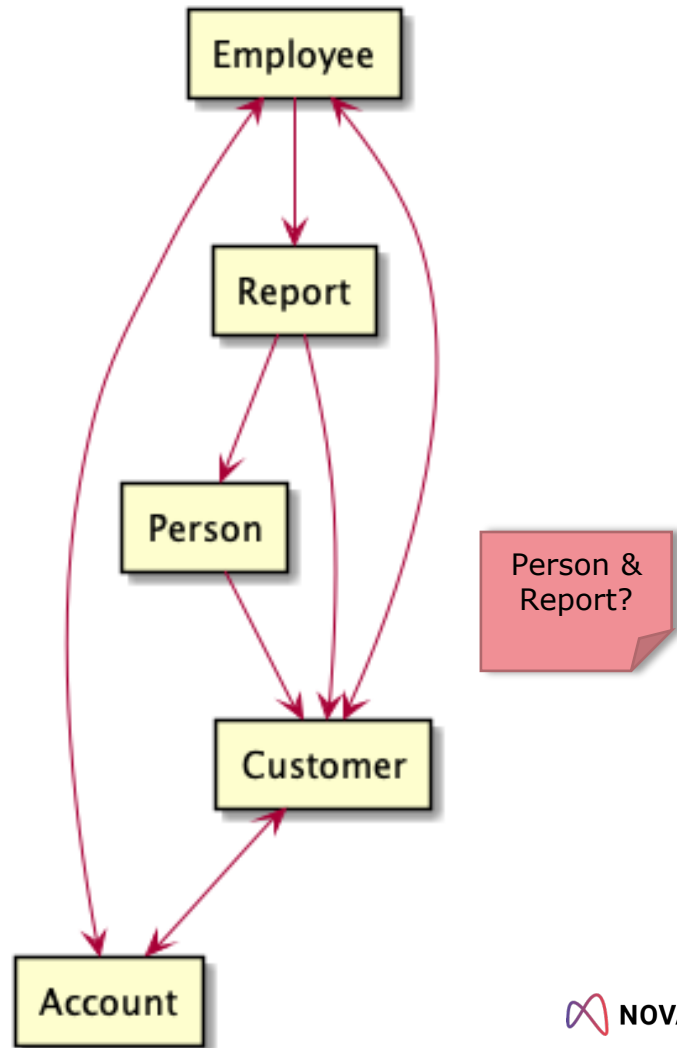
Real-world Examples



Who Use the Customer?

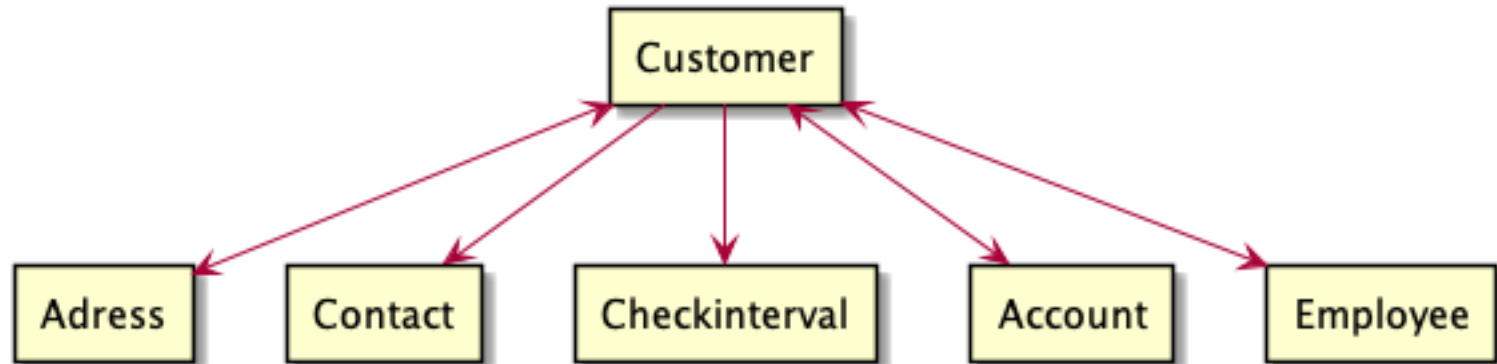
Used From

Which role does the employee play?



What Does the Customer Depend on?

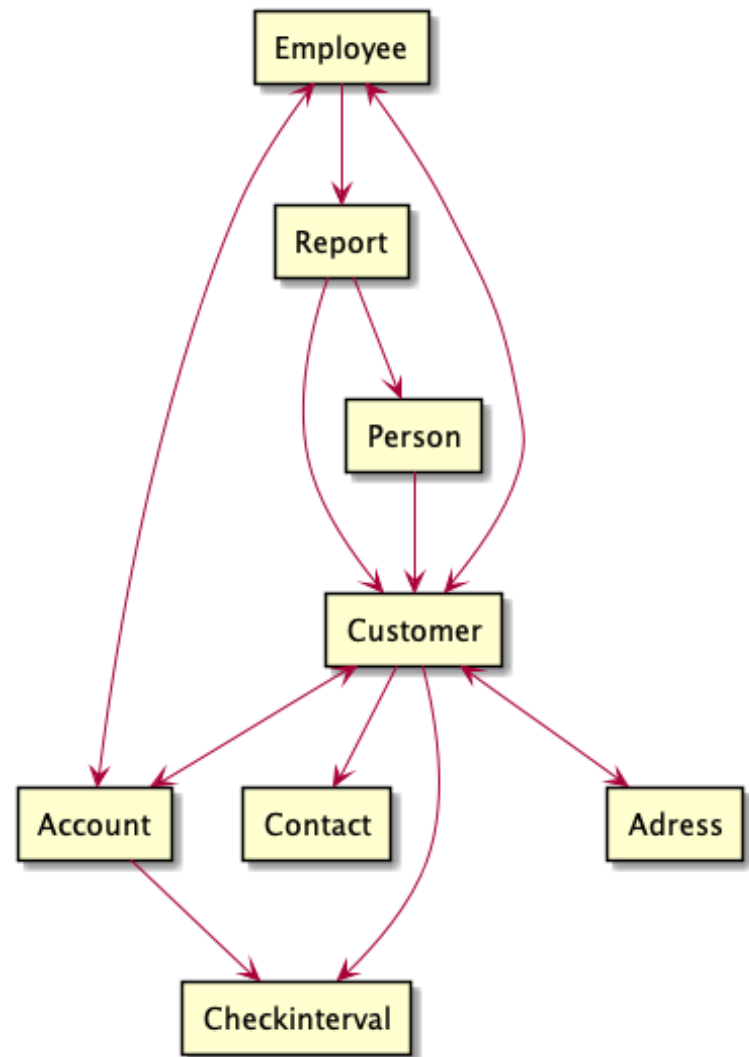
Depends On



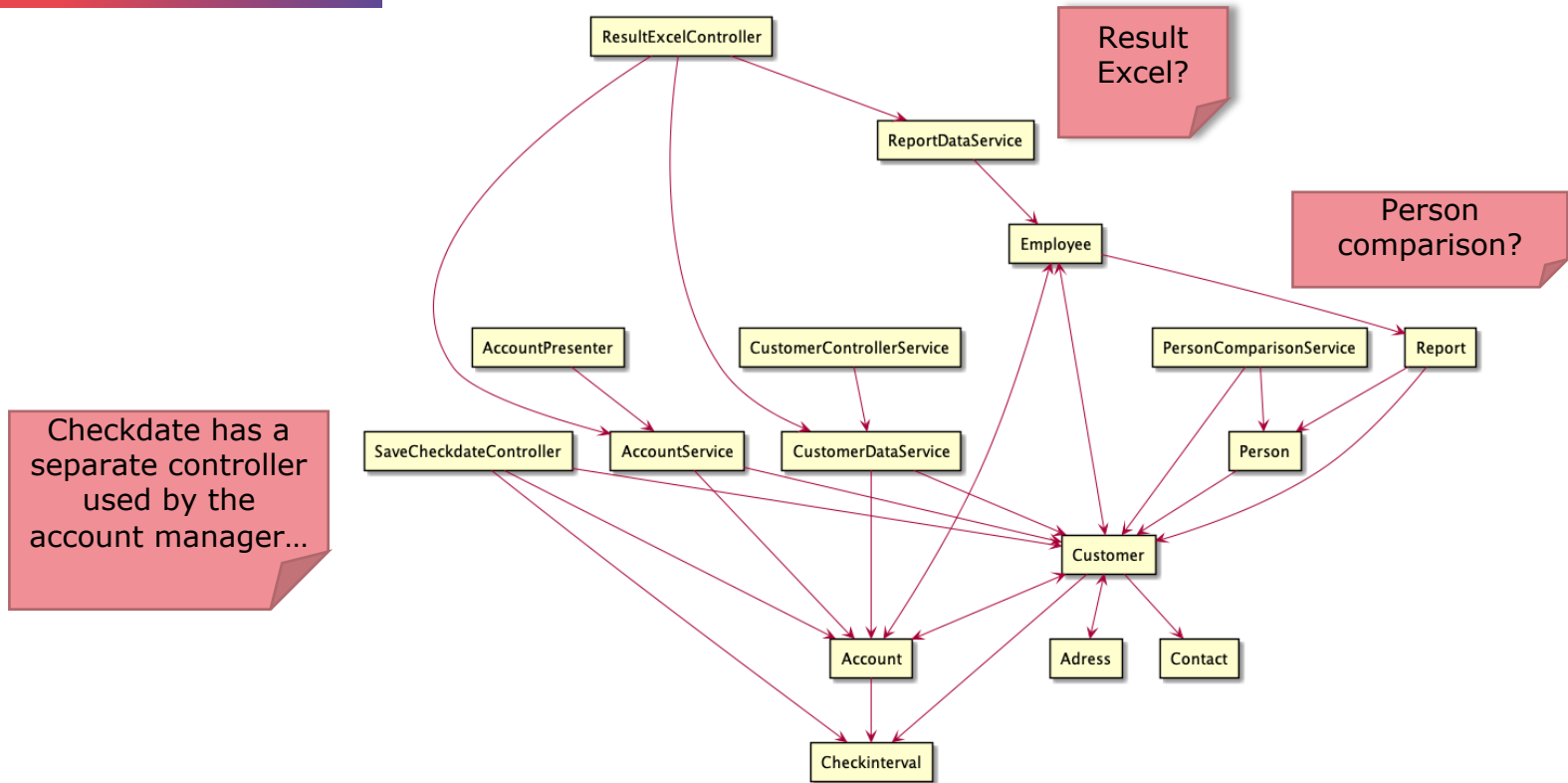
How Are Things Related?

Checkinterval?
Why customer
and account
using these
objects?

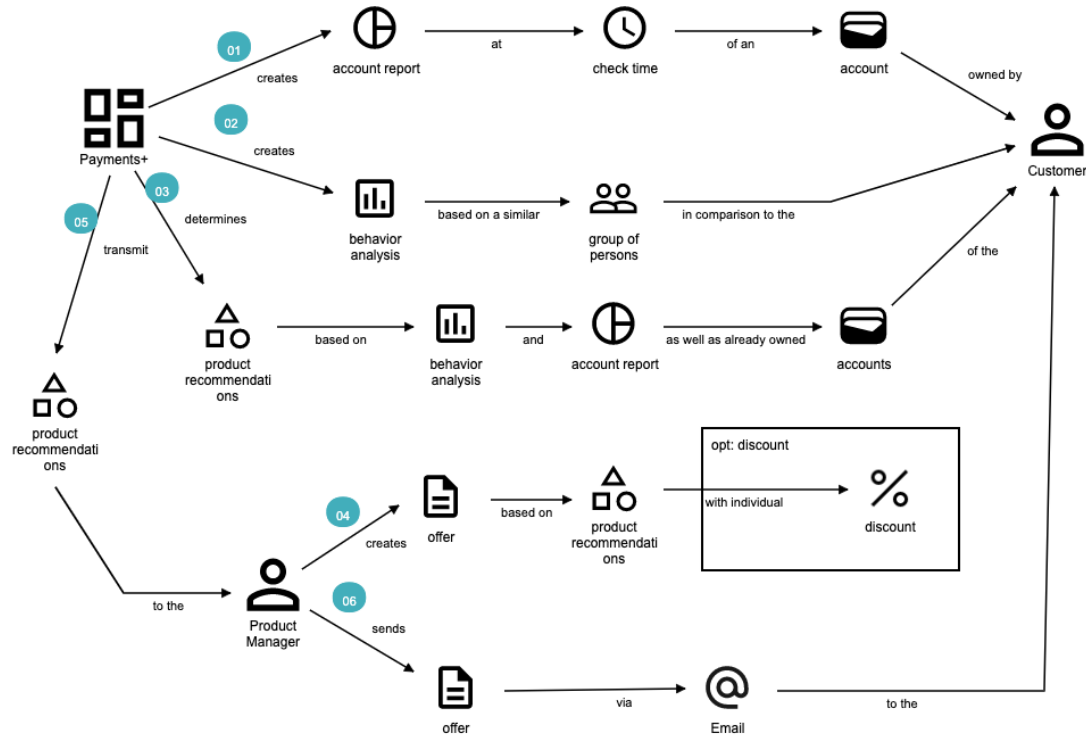
Are there
further
elements, that
are shared?



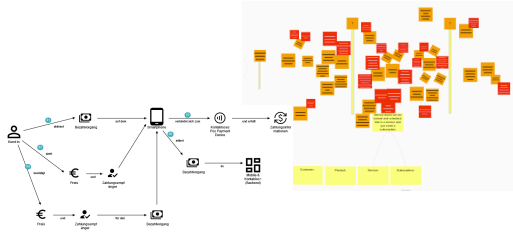
We Are Now Able to Understand the Big Picture!



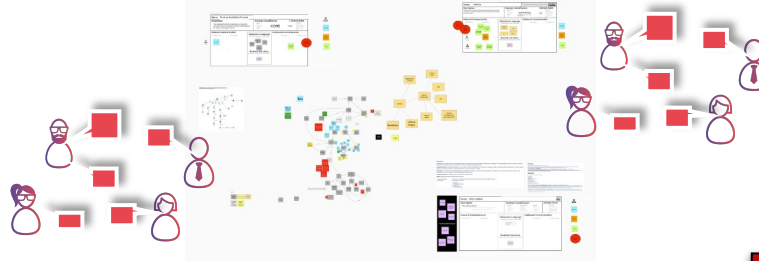
Reports as Element of a Potential Subdomain Product Recommendations



Domain Understanding

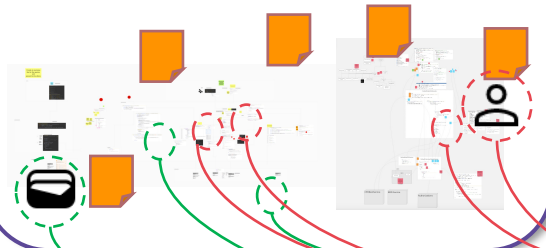


MODEL BOUNDARIES Bounded Contexts

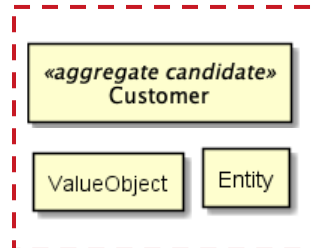


TARGETING ARCHITECTURE

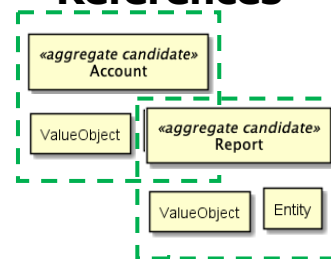
Understand as-is Architecture



Aggregate



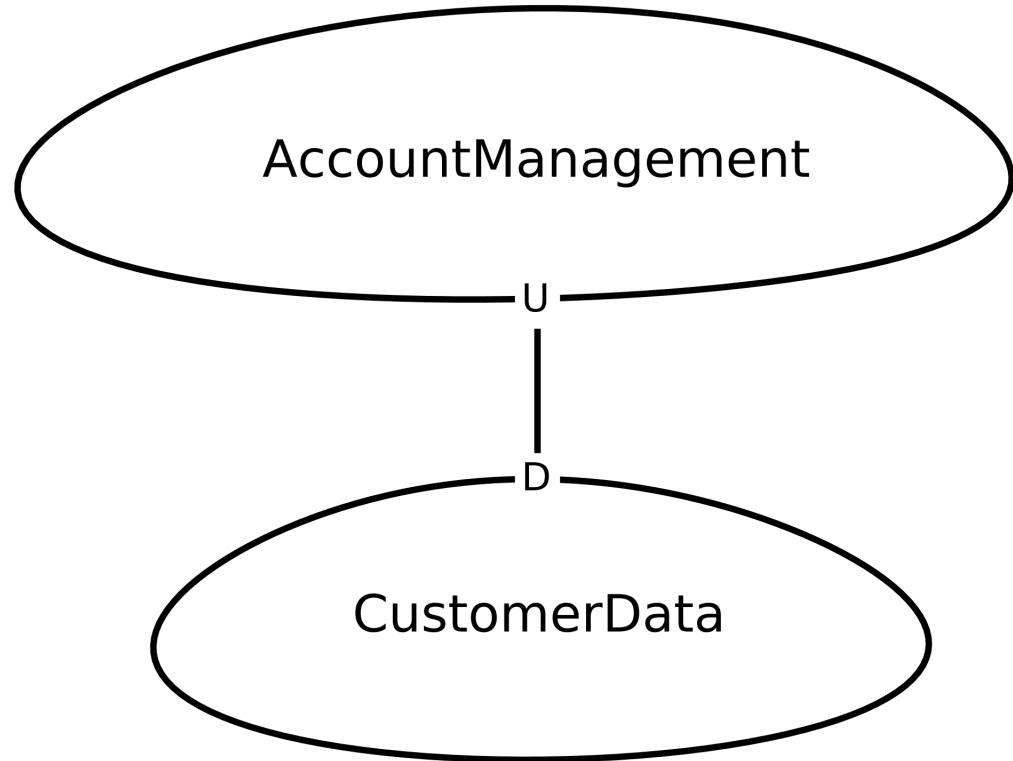
Aggregate References



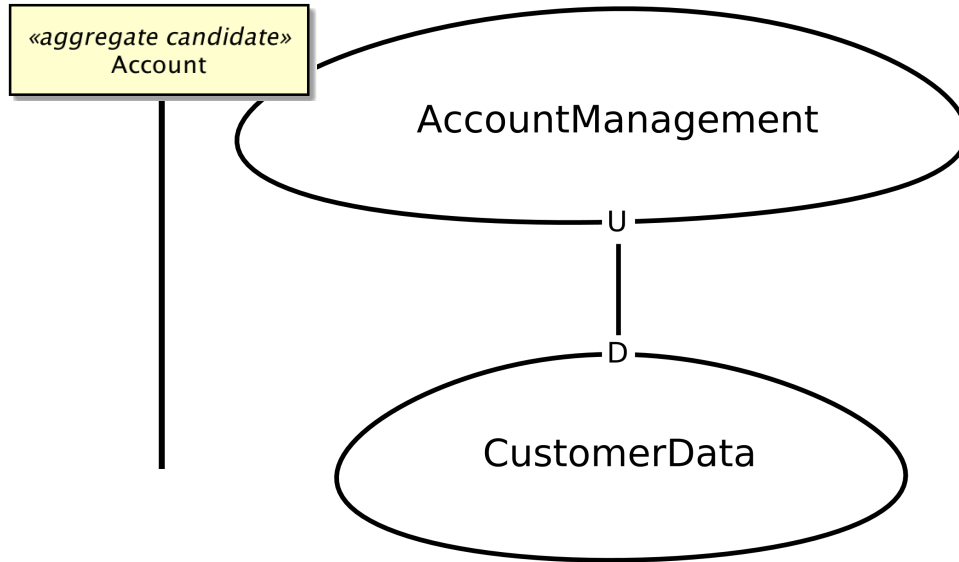
Context Map

Domain-driven Ways to Think about Coupling

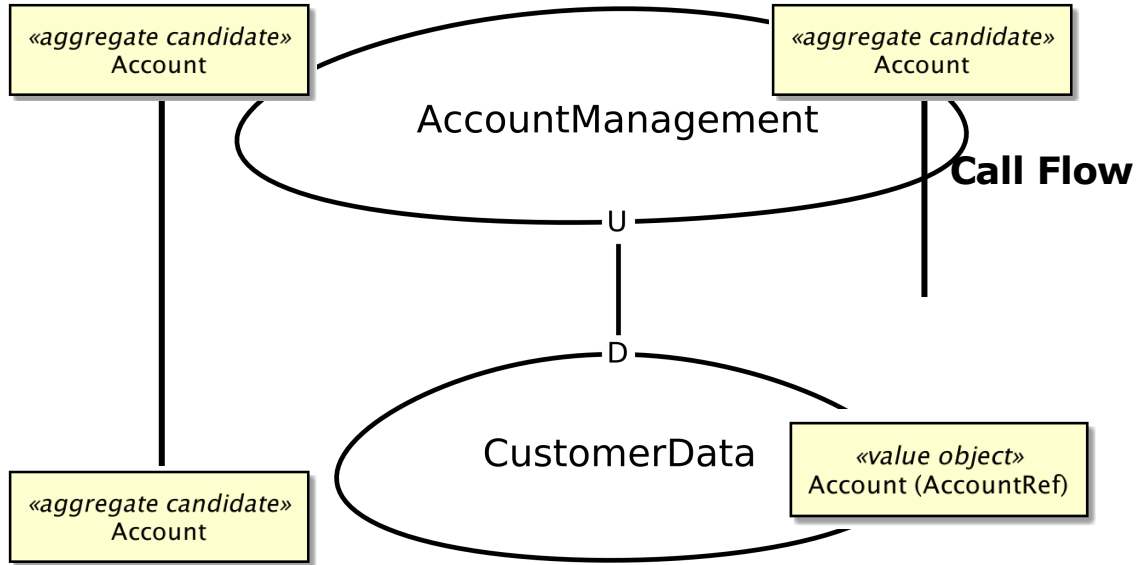
- **Upstream**
- **Downstream**



Nothing Really Novel but Active Decisions Help to Improve Organizational Coupling

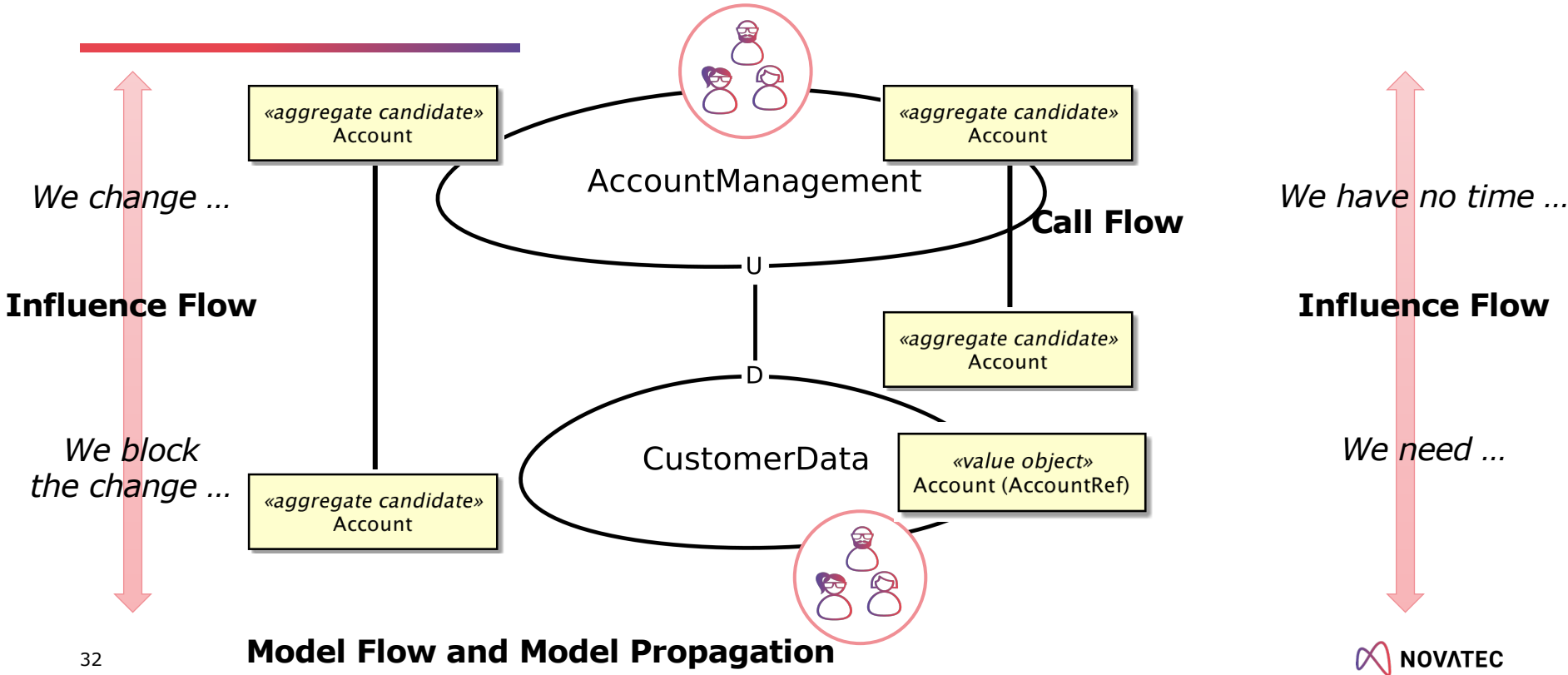


Nothing Really Novel but Active Decisions Help to Improve Organizational Coupling

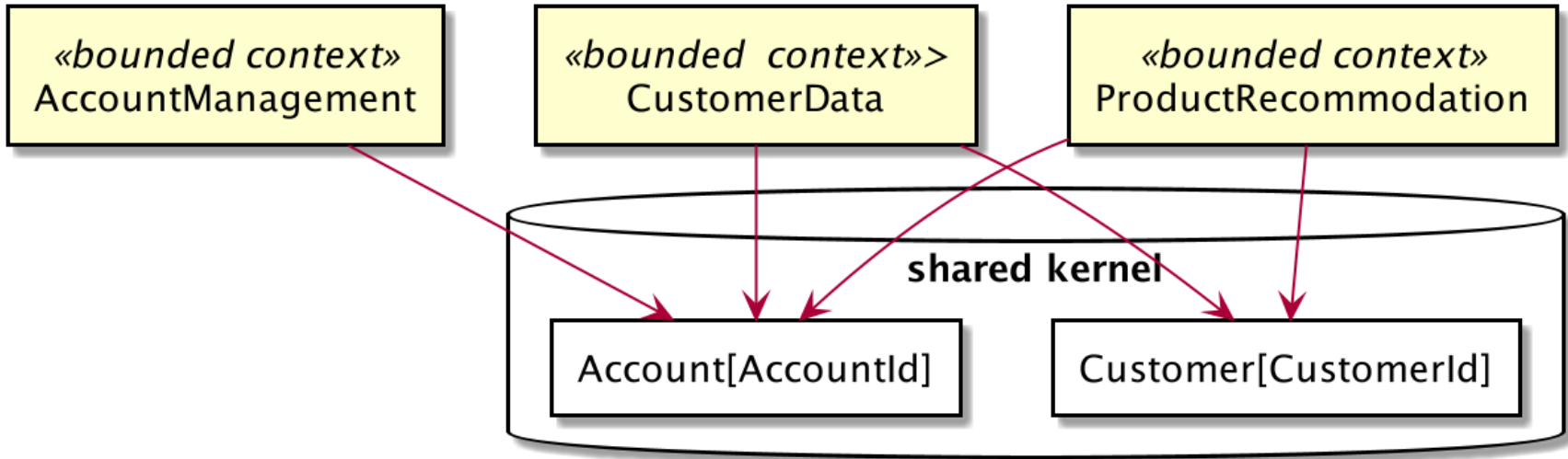


Model Flow and Model Propagation

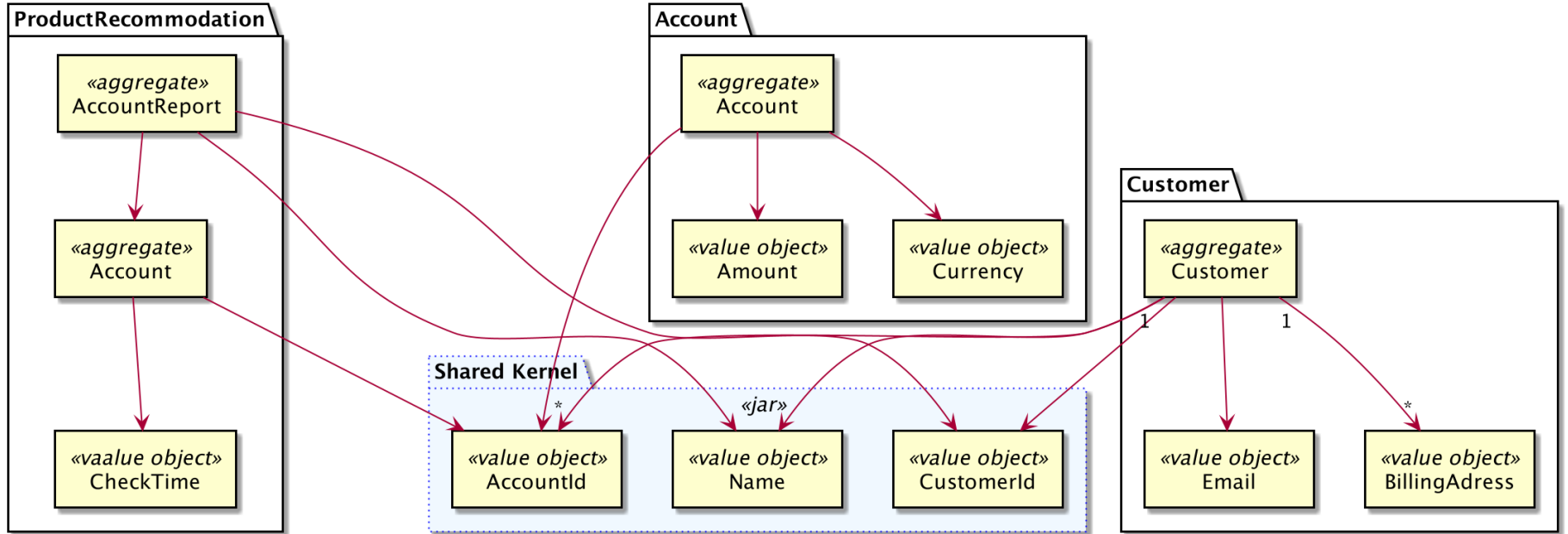
Nothing Really Novel but Active Decisions Help to Improve Organizational Coupling



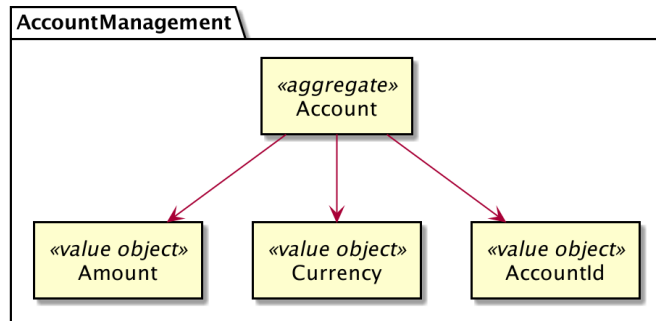
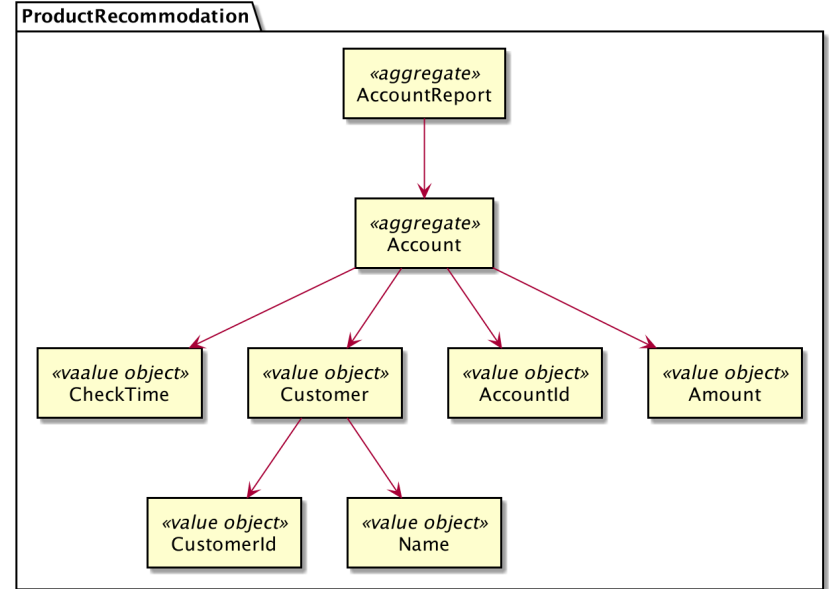
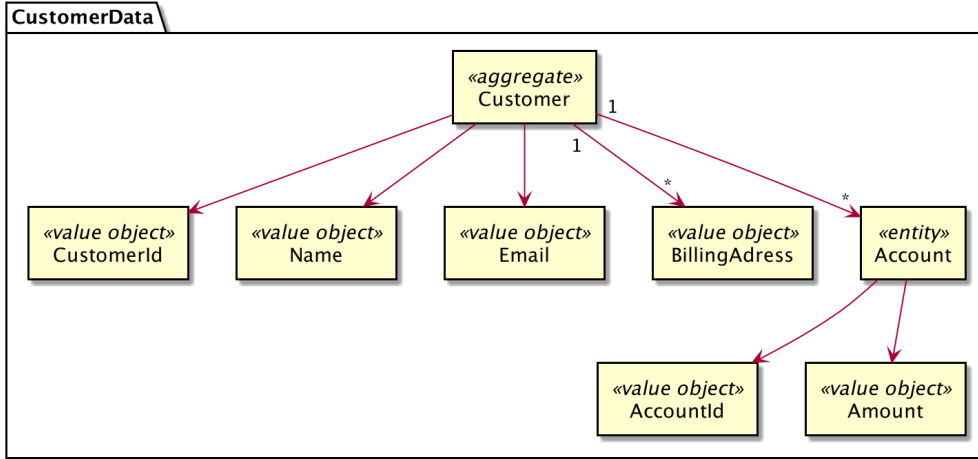
Shared Kernel Based on Database Level



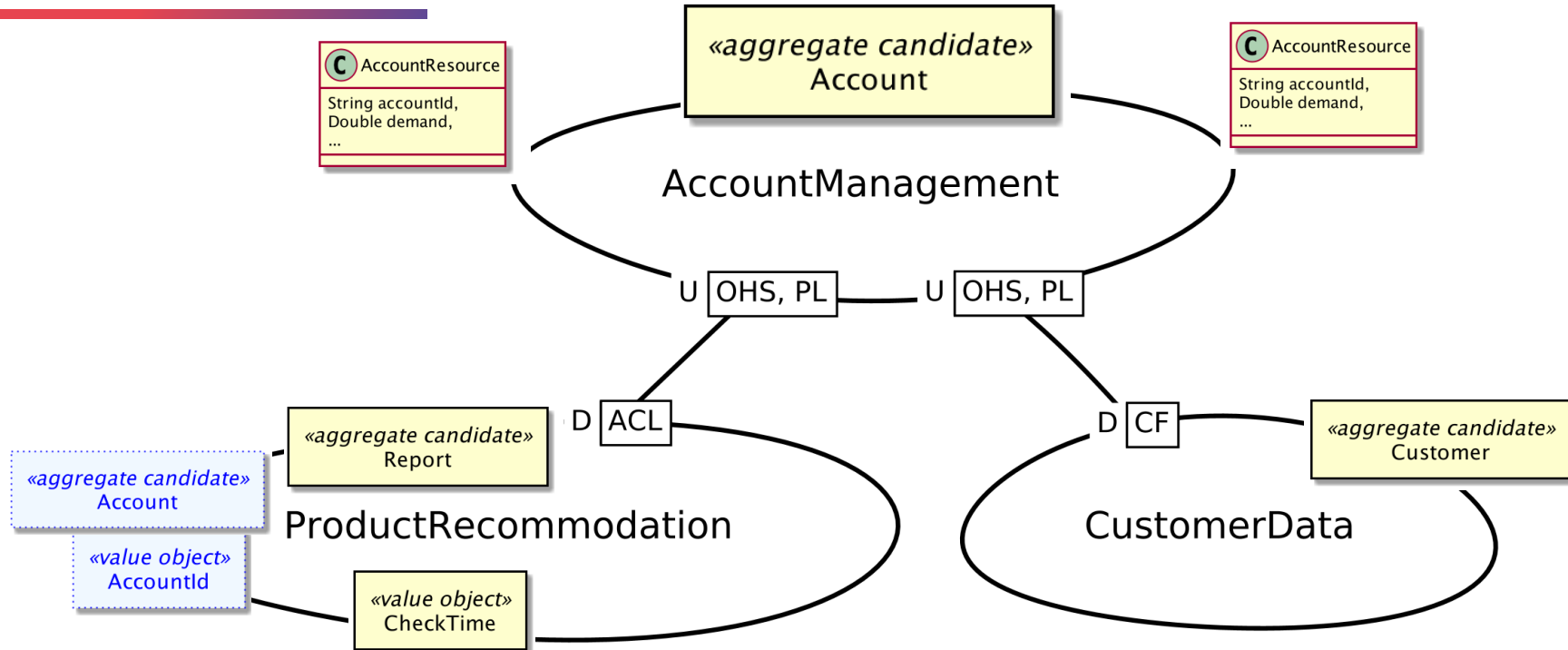
Shared Kernel Based on Value Objects



Separate Ways

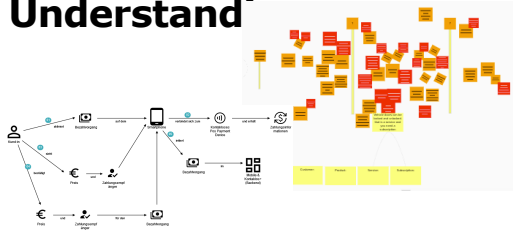


Open Host Service (OHS), Published Language (PL), Conformist (CF) and Anticorruption Layer (ACL)

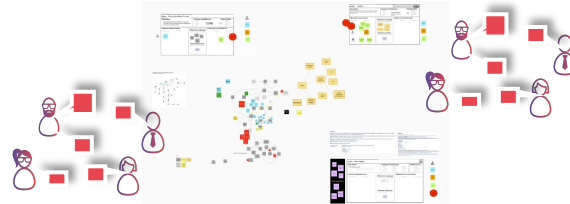


A Starter Idea for Rearchitecting Intentions

Domain Understand

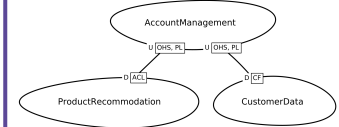


MODEL BOUNDARIES Bounded Contexts

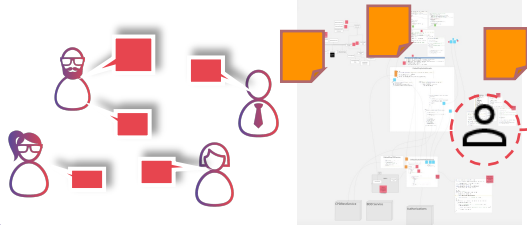


TARGETING ARCHITECTURE

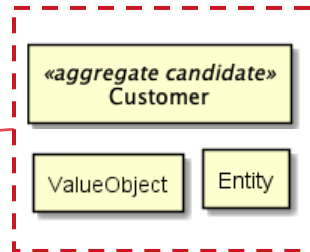
Context Map



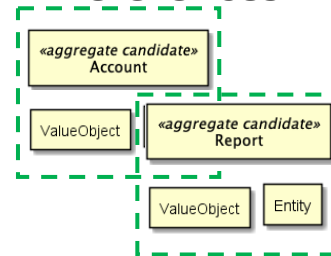
Understand as-is Architecture



Aggregate



Aggregate References





Thank You!

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- Contact via XING, LinkedIn or Twitter

