DDD Kills your project !

A true story ...

Who is an architecte ?

Who is an architecte ?

- A role

Who is an architecte ?

- A role
- Not a person

Who is an architecte ?

- A role
- Not a person
- A team member

Who is an architecte ?

- A role
- Not a person
- A team member
- A developer (not all YET)

Who is an architecte ?

- A role
- Not a person
- A team member
- A developer (not all YET)

What is an Architecture ?

What is an Architecture ?

- Taking decisions

What is an Architecture ?

- Taking decisions
- Taking in consideration amount of change

What is an Architecture ?

- Taking decisions
- Taking in consideration amount of change
- Defer decisions

Good Architect and Architecture ...

The only way to **measure** an *Architecture* quality is to count the **cost of change**

A good *Architecte* is a team who made a system which is :

Good Architect and Architecture ...

The only way to **measure** an *Architecture* quality is to count the **cost of change**

A good *Architecte* is a team who made a system which is :

- Testable

Good Architect and Architecture ...

The only way to **measure** an *Architecture* quality is to count the **cost of change**

A good *Architecte* is a team who made a system which is :

- Testable
- Scalable

Good Architect and Architecture ...

The only way to **measure** an *Architecture* quality is to count the **cost of change**

A good *Architecte* is a team who made a system which is :

- Testable
- Scalable
- Flexible

Good Architect and Architecture ...

The only way to **measure** an *Architecture* quality is to count the **cost of change**

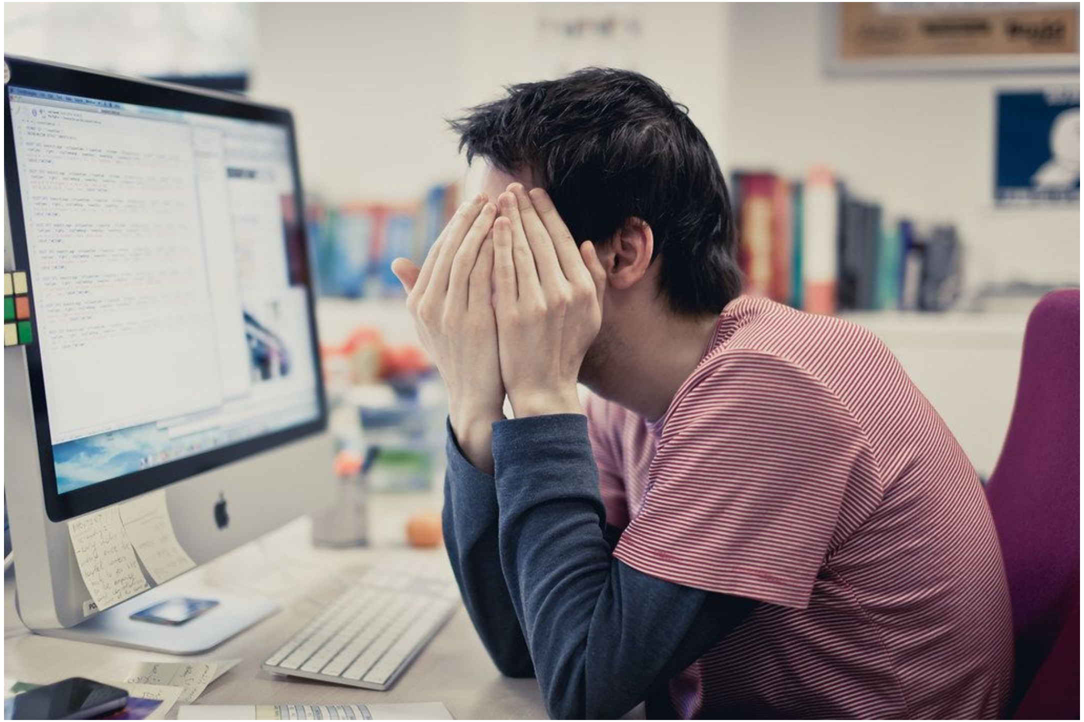
A good *Architecte* is a team who made a system which is :

- Testable
- Scalable
- Flexible
- Maintainable

Let’s back to our story ...

DDD Bad practices #1

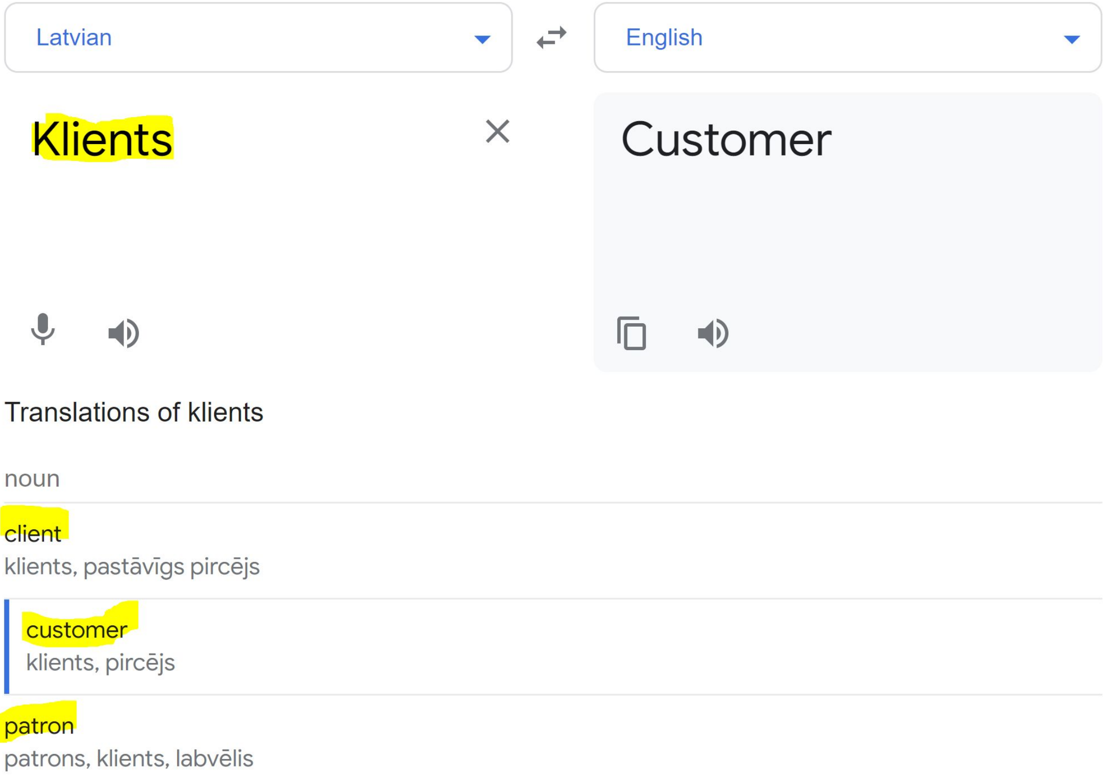
Working with shy developers



DDD Bad practices #2

Translate the

Ubiquitous Language



Klients

Customer

Translations of klients

noun

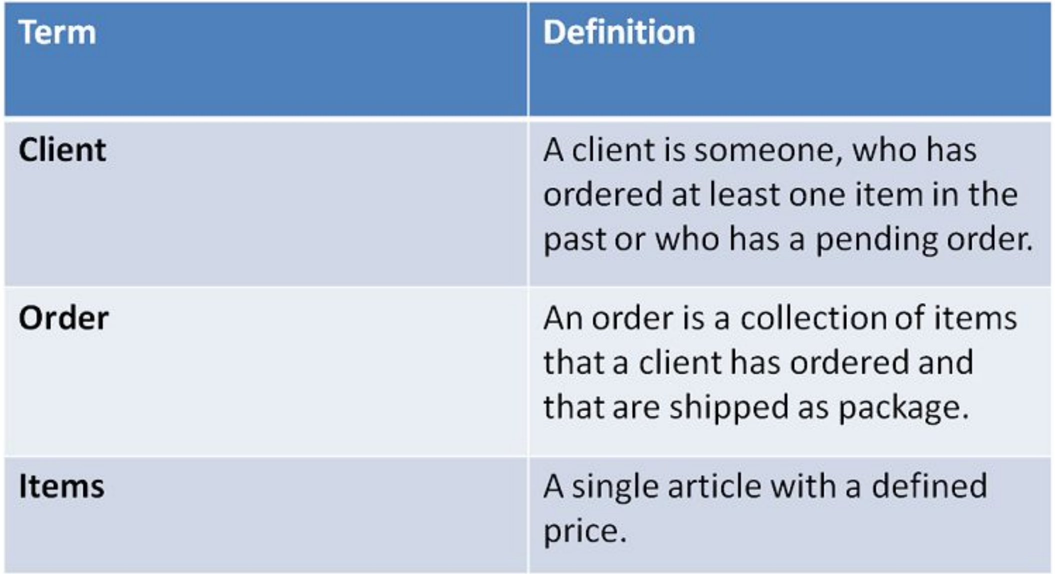
client
klients, pastāvīgs pircējs

customer
klients, pircējs

patron
patrons, klients, labvēlis

DDD Bad practices #3

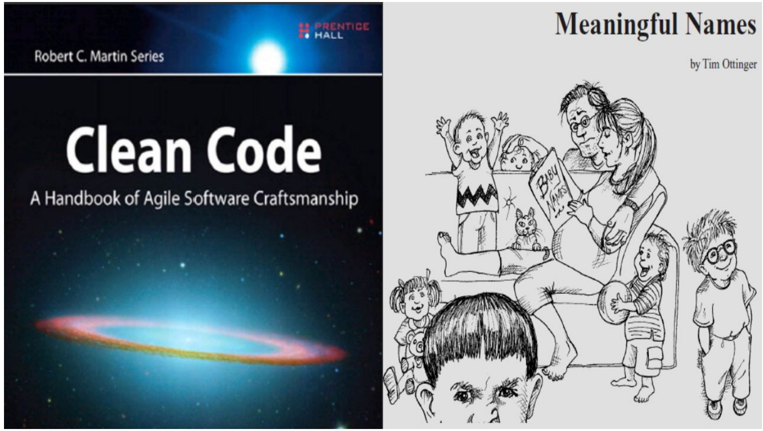
Absence of Glossary

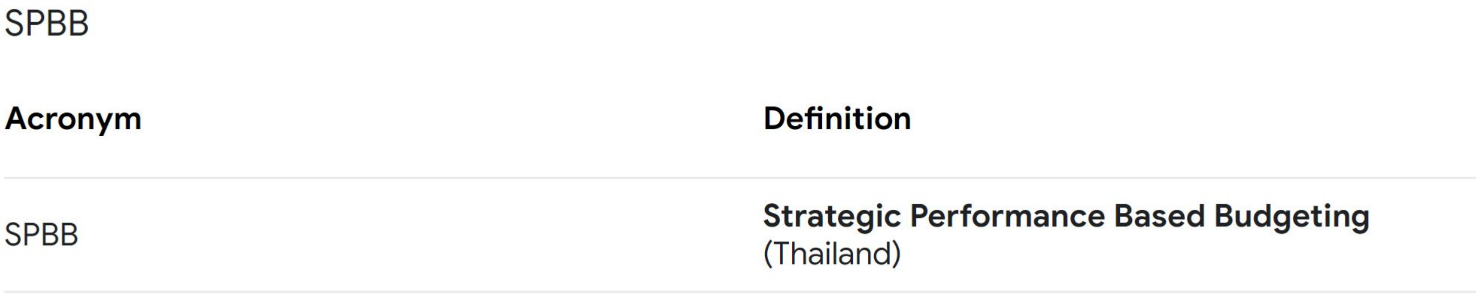


Term	Definition
Client	A client is someone, who has ordered at least one item in the past or who has a pending order.
Order	An order is a collection of items that a client has ordered and that are shipped as package.
Items	A single article with a defined price.

DDD Bad practices #4

Make Ubiquitous Language pronounceable



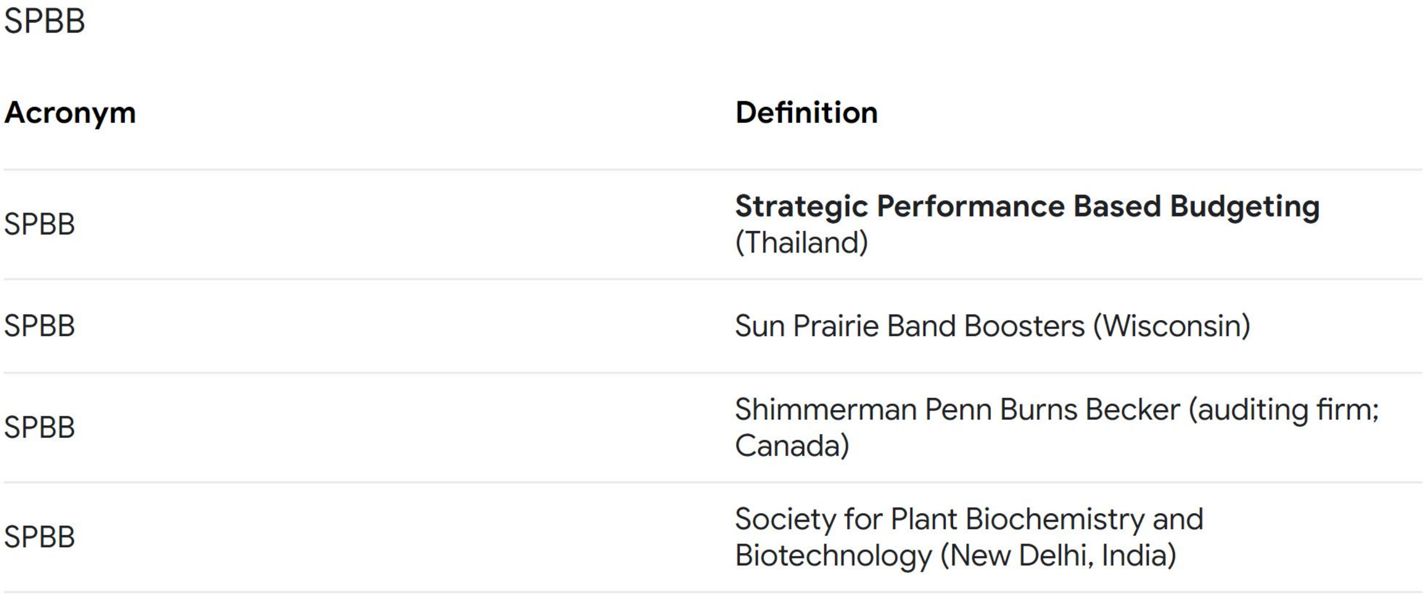


SPBB

Acronym	Definition
SPBB	**Strategic Performance Based Budgeting** (Thailand)

DDD Bad practices #5

One Glossary for all Bounded Contexts

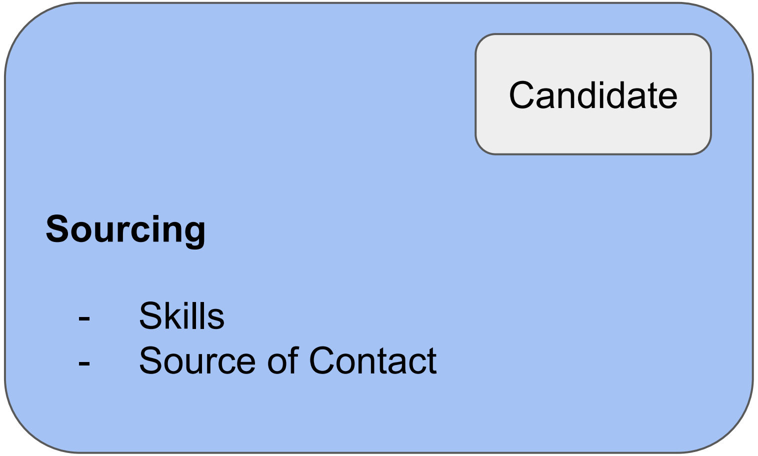


SPBB

Acronym	Definition
SPBB	**Strategic Performance Based Budgeting** (Thailand)
SPBB	Sun Prairie Band Boosters (Wisconsin)
SPBB	Shimmerman Penn Burns Becker (auditing firm; Canada)
SPBB	Society for Plant Biochemistry and Biotechnology (New Delhi, India)

DDD Bad practices #5

One Glossary for all Bounded Contexts



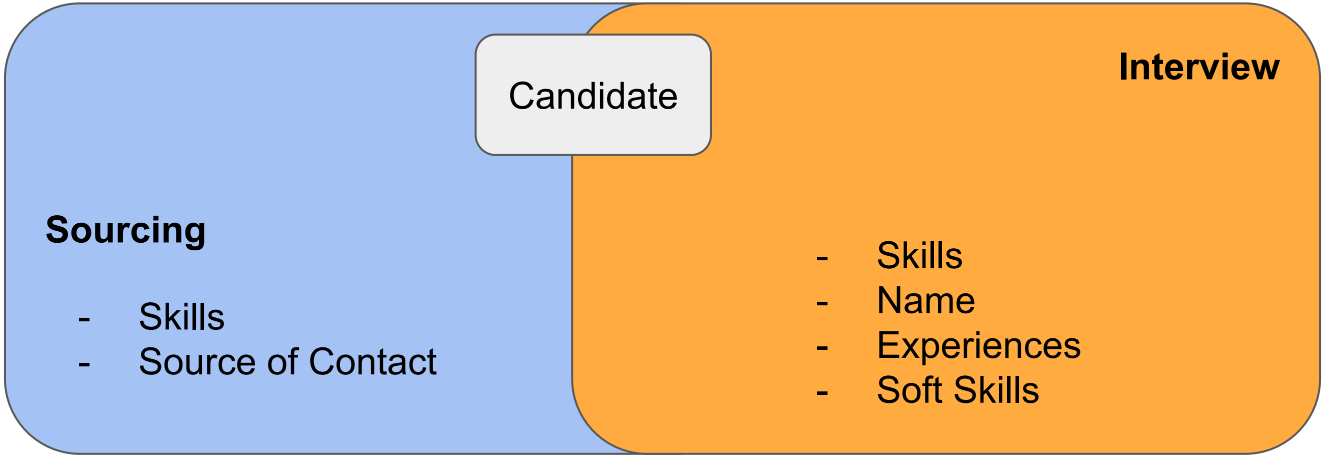
Candidate

Sourcing

- Skills
- Source of Contact

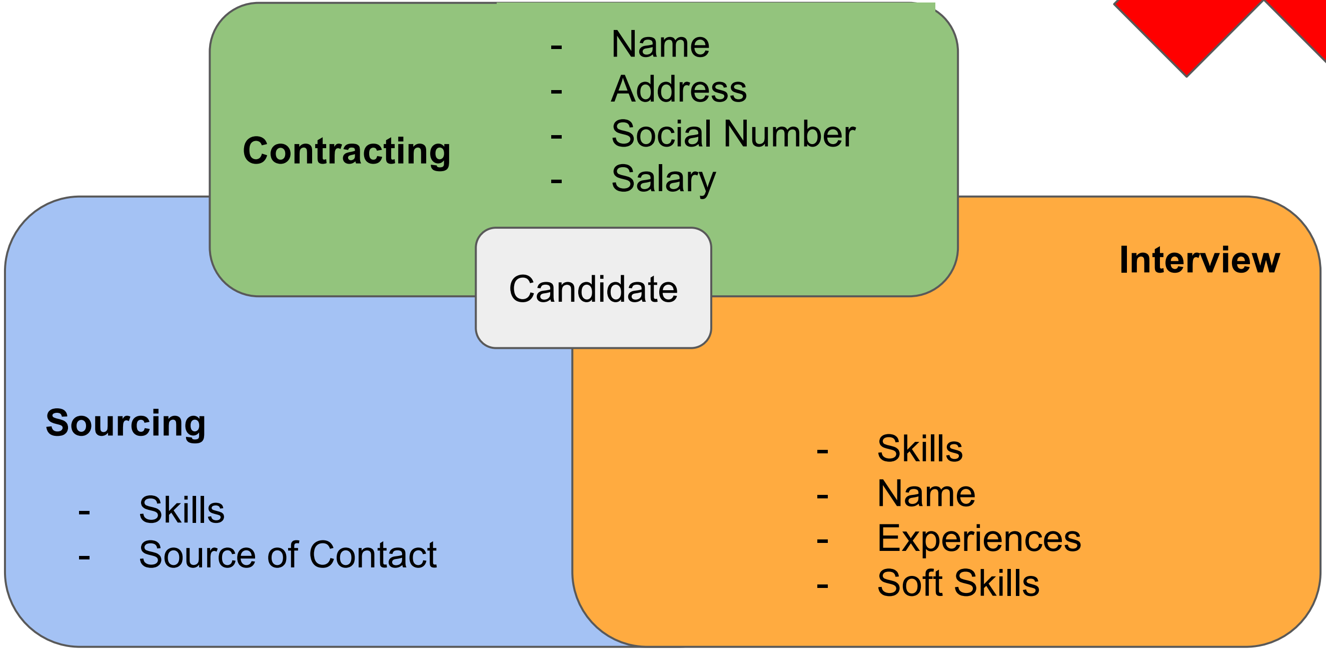
DDD Bad practices #5

One Glossary for all Bounded Contexts



DDD Bad practices #5

One Glossary for all Bounded Contexts



Contracting

- Name
- Address
- Social Number
- Salary

Candidate

Interview

- Skills
- Name
- Experiences
- Soft Skills

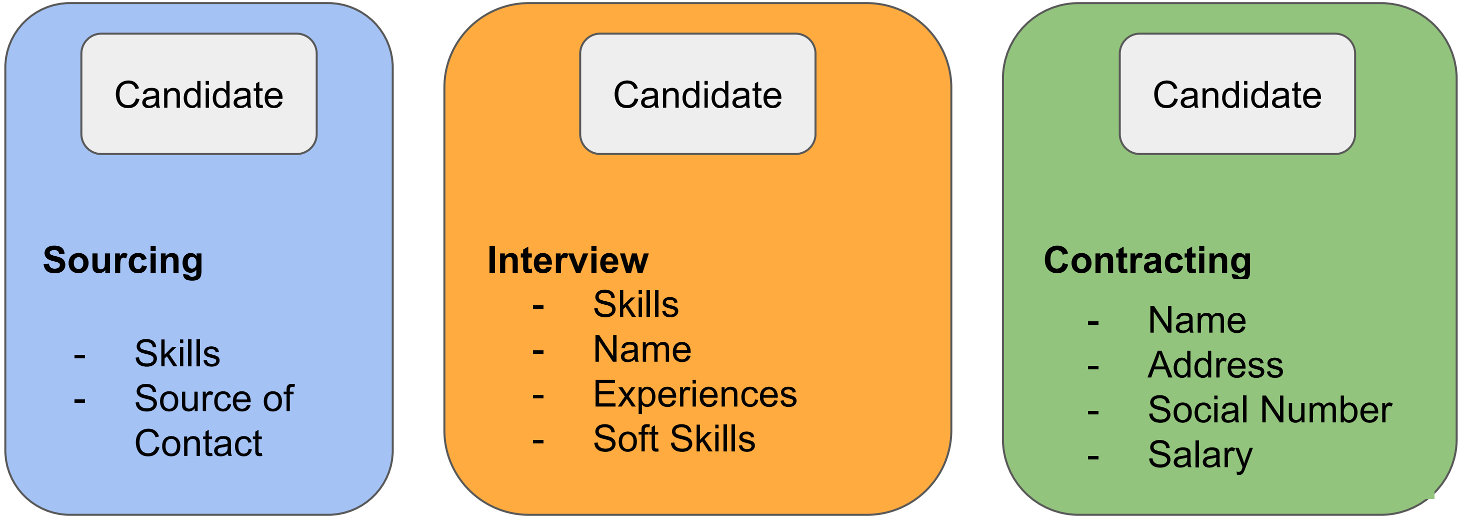
Sourcing

- Skills
- Source of Contact

DDD Bad practices #5

✓

One Glossary for all Bounded Contexts



Candidate

Sourcing

- Skills
- Source of Contact

Candidate

Interview

- Skills
- Name
- Experiences
- Soft Skills

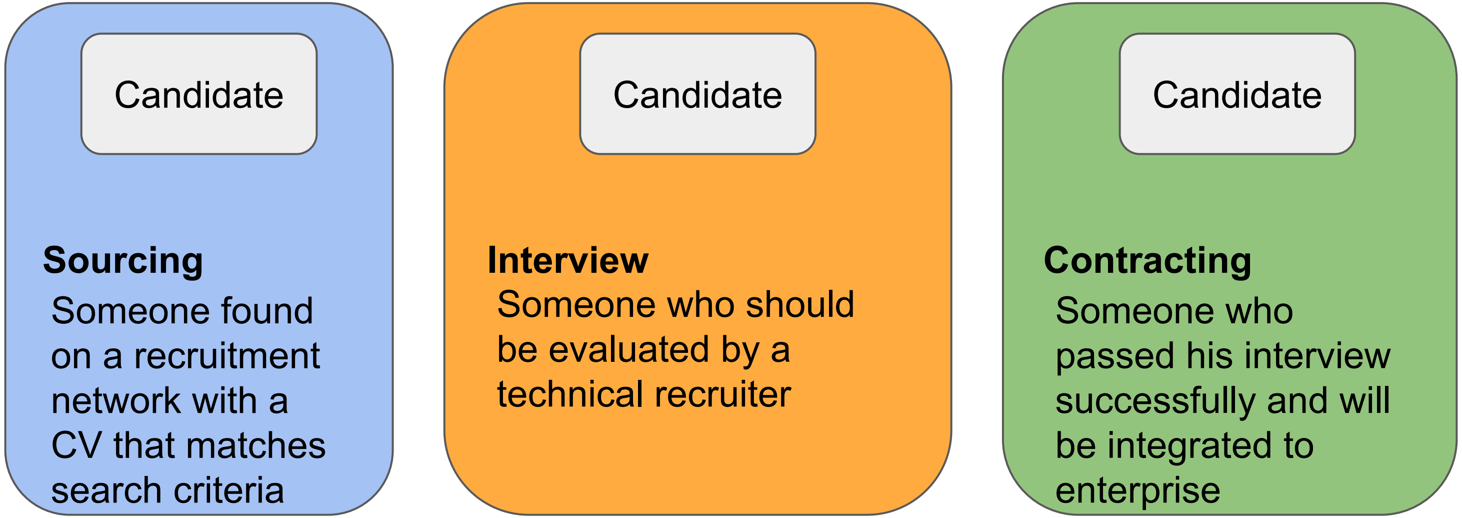
Candidate

Contracting

- Name
- Address
- Social Number
- Salary

DDD Bad practices #5

One Glossary for all Bounded Contexts



Candidate

Sourcing

Someone found on a recruitment network with a CV that matches search criteria

Candidate

Interview

Someone who should be evaluated by a technical recruiter

Candidate

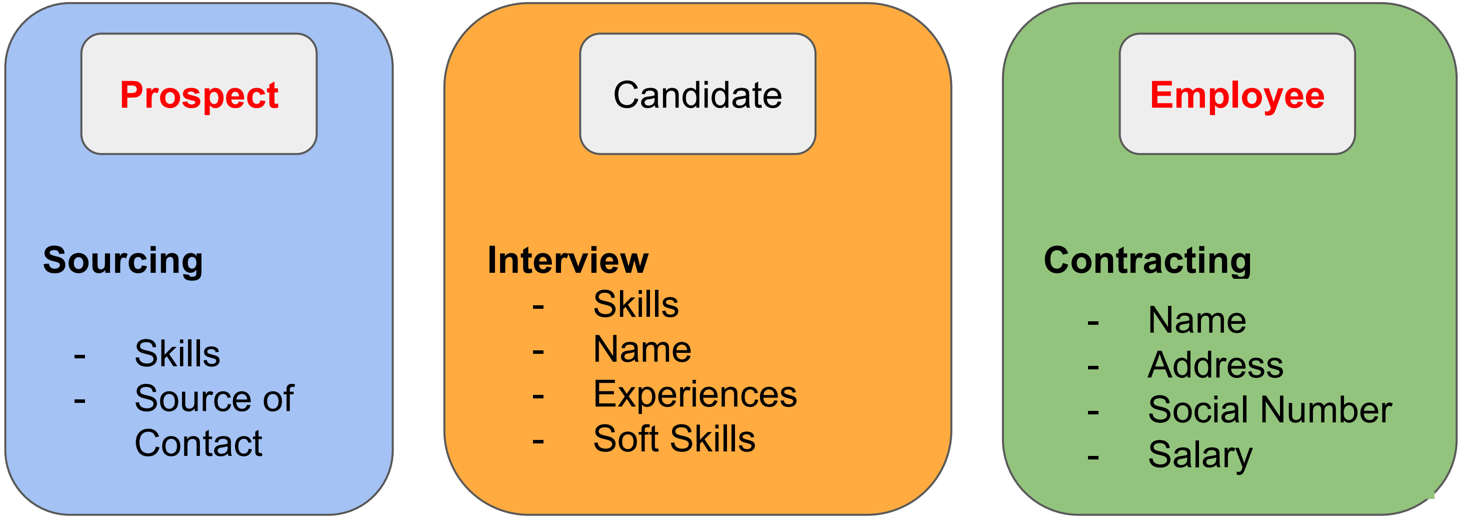
Contracting

Someone who passed his interview successfully and will be integrated to enterprise

DDD Bad practices #5

✓

One Glossary for all Bounded Contexts



Prospect

Sourcing

- Skills
- Source of Contact

Candidate

Interview

- Skills
- Name
- Experiences
- Soft Skills

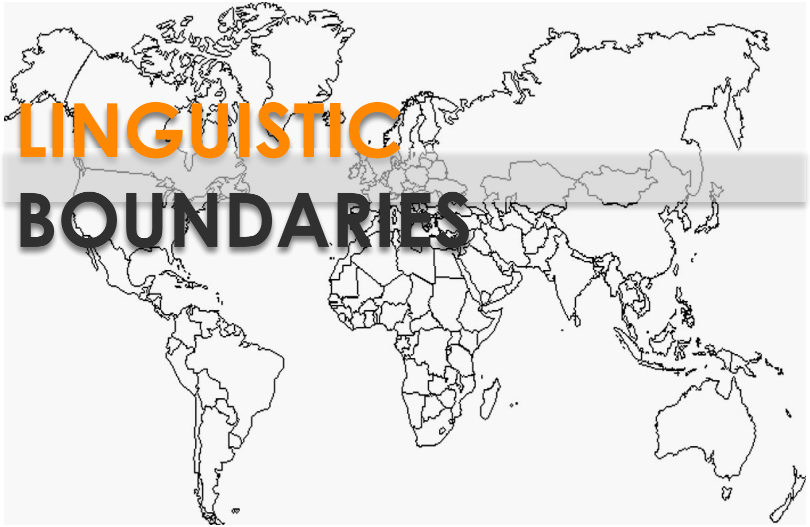
Employee

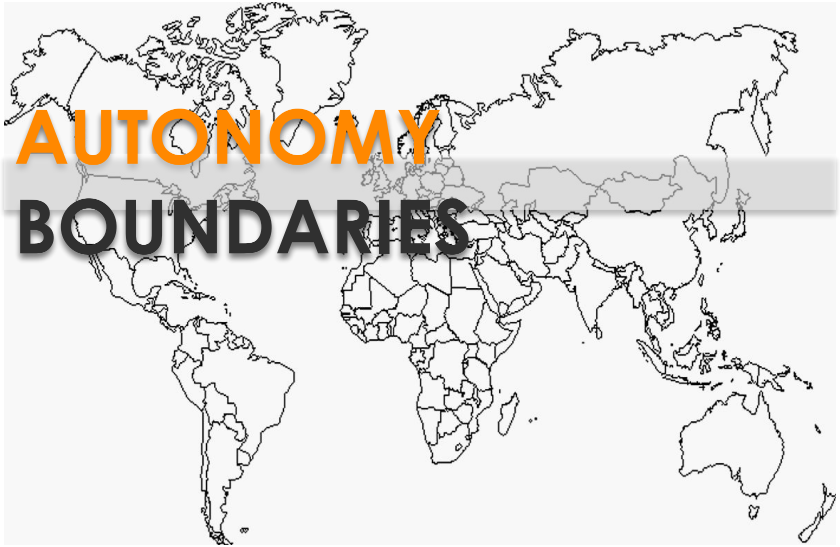
Contracting

- Name
- Address
- Social Number
- Salary

DDD Bad practices #5

One Glossary for all Bounded Contexts

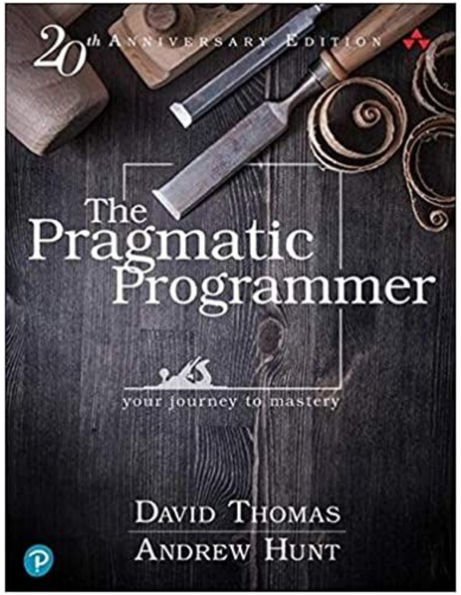




DDD Bad practices #6

Don’t Repeat Yourself

DRY



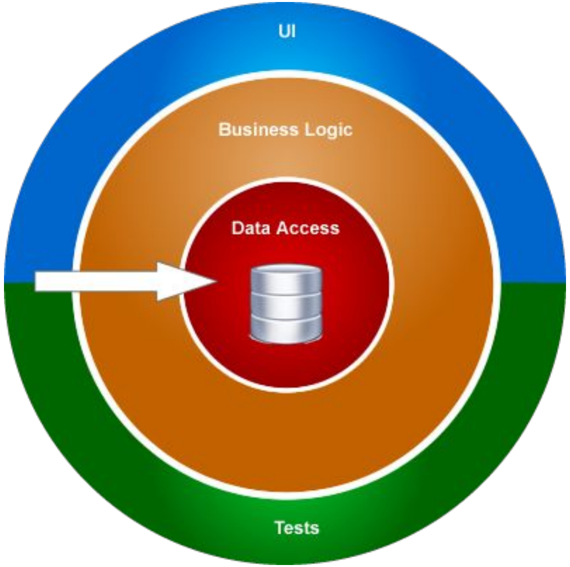
DDD Bad practices #6

Don’t Repeat Yourself in **Same Context**

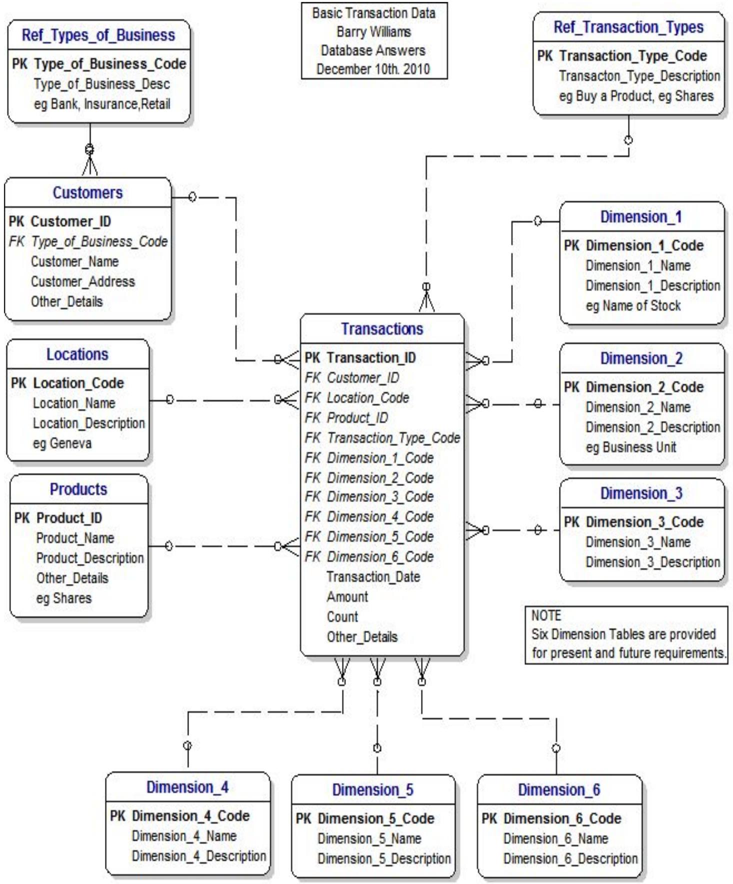
✓ DRYSC

DDD Bad practices #7

Database dependencies



data-centric architecture



Basic Transaction Data
Barry Williams
Database Answers
December 10th. 2010

Ref_Types_of_Business
PK Type_of_Business_Code
Type_of_Business_Desc
eg Bank, Insurance,Retail

Ref_Transaction_Types
PK Transaction_Type_Code
Transacton_Type_Description
eg Buy a Product, eg Shares

Customers
PK Customer_ID
FK Type_of_Business_Code
Customer_Name
Customer_Address
Other_Details

Locations
PK Location_Code
Location_Name
Location_Description
eg Geneva

Products
PK Product_ID
Product_Name
Product_Description
Other_Details
eg Shares

Transactions
PK Transaction_ID
FK Customer_ID
FK Location_Code
FK Product_ID
FK Transaction_Type_Code
FK Dimension_1_Code
FK Dimension_2_Code
FK Dimension_3_Code
FK Dimension_4_Code
FK Dimension_5_Code
FK Dimension_6_Code
Transaction_Date
Amount
Count
Other_Details

Dimension_1
PK Dimension_1_Code
Dimension_1_Name
Dimension_1_Description
eg Name of Stock

Dimension_2
PK Dimension_2_Code
Dimension_2_Name
Dimension_2_Description
eg Business Unit

Dimension_3
PK Dimension_3_Code
Dimension_3_Name
Dimension_3_Description

NOTE
Six Dimension Tables are provided
for present and future requirements.

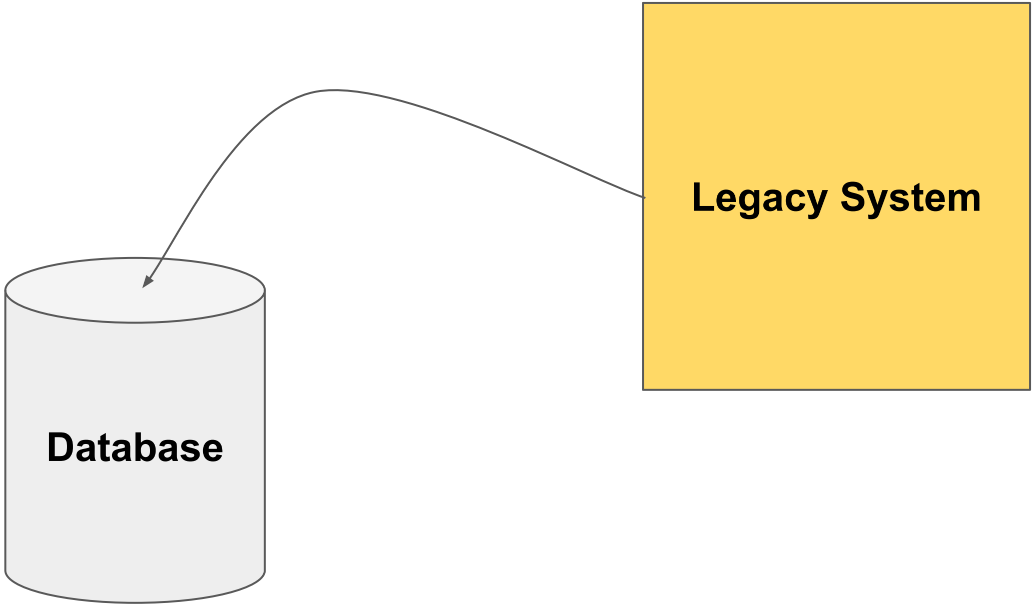
Dimension_4
PK Dimension_4_Code
Dimension_4_Name
Dimension_4_Description

Dimension_5
PK Dimension_5_Code
Dimension_5_Name
Dimension_5_Description

Dimension_6
PK Dimension_6_Code
Dimension_6_Name
Dimension_6_Description

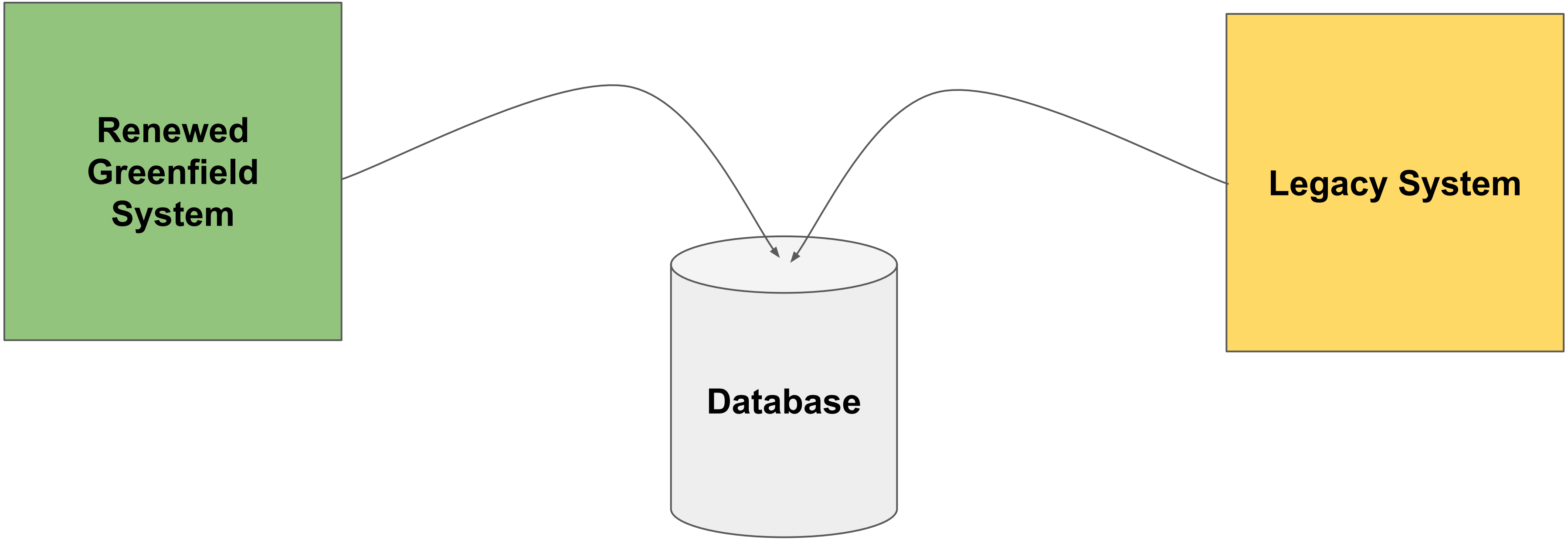
DDD Bad practices #8

Think about Database schema



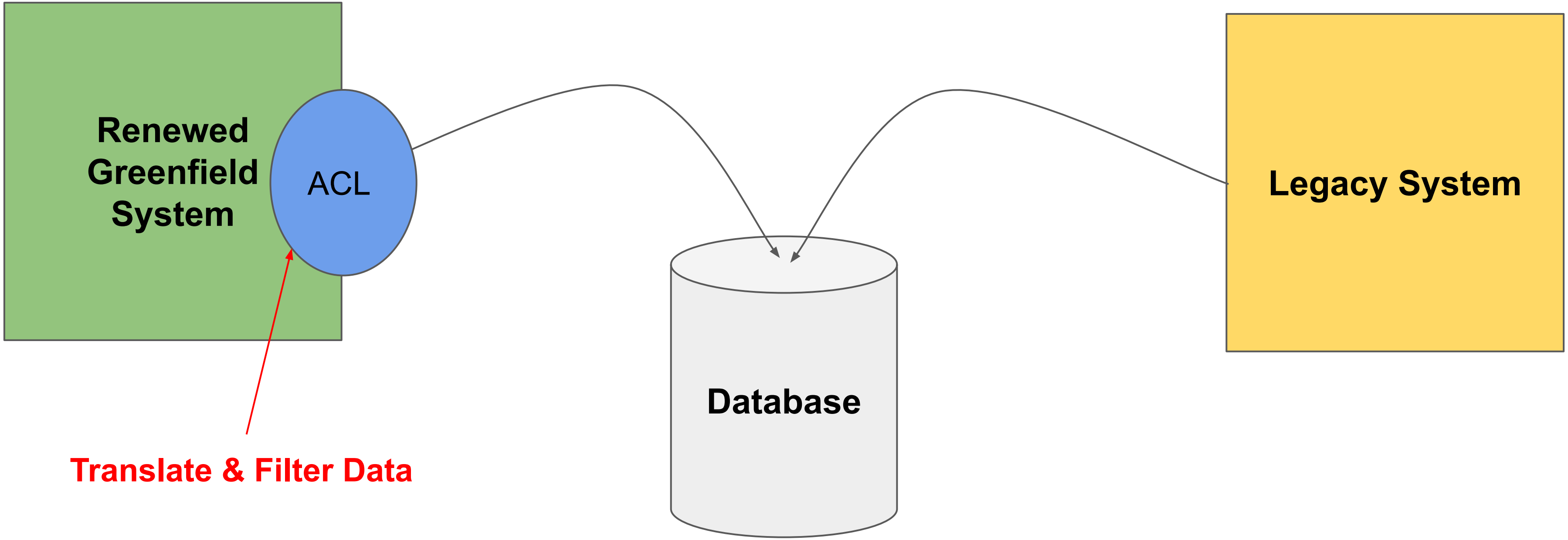
DDD Bad practices #8

Think about Database schema



DDD Bad practices #8

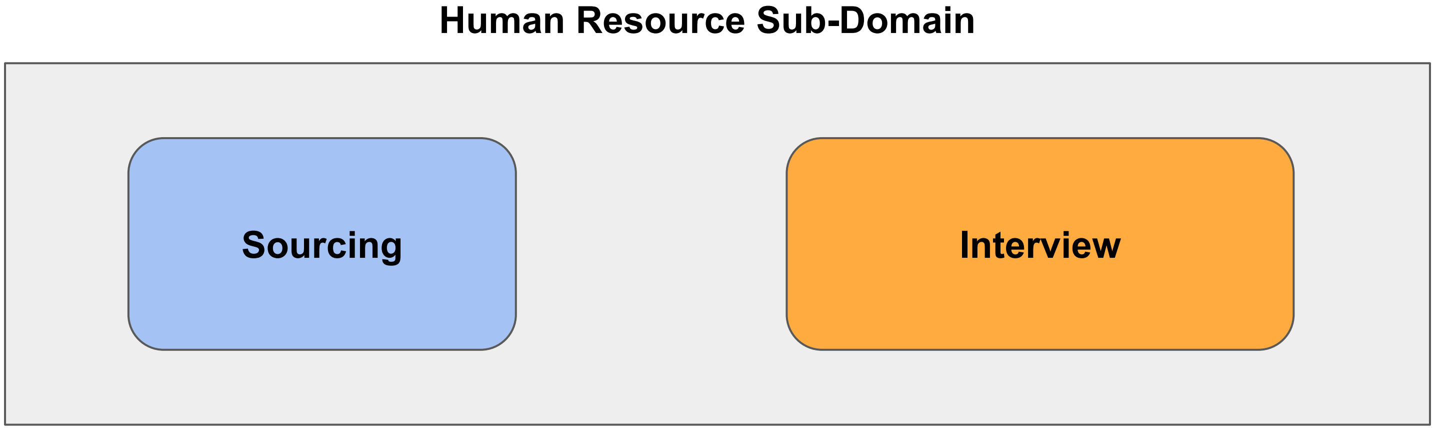
Think about Database schema



Translate & Filter Data

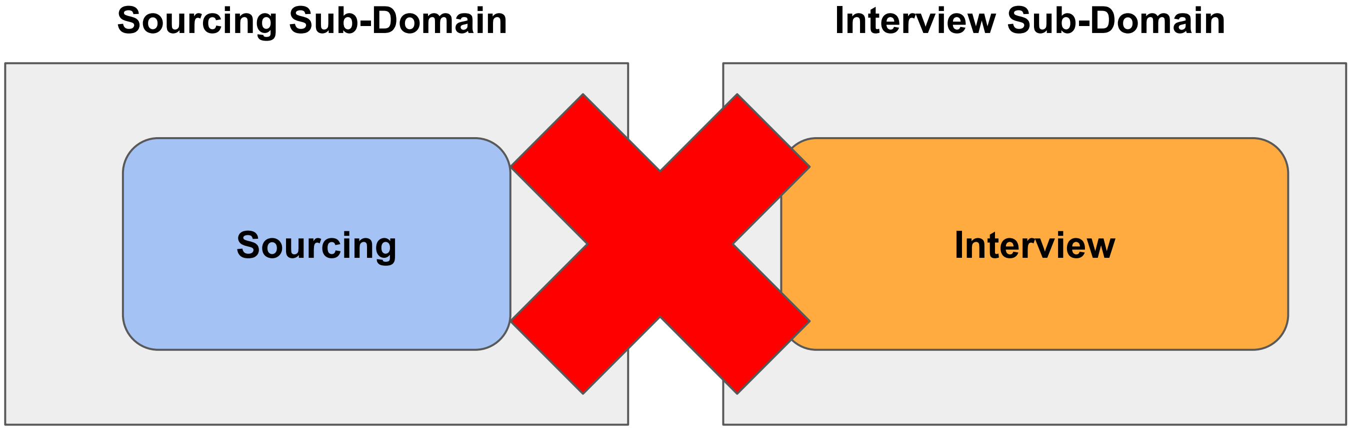
DDD Bad practices #8

Forcing a Sub-Domain having 1 Bounded Context



DDD Bad practices #8

Forcing a Sub-Domain having 1 Bounded Context



DDD Bad practices #8

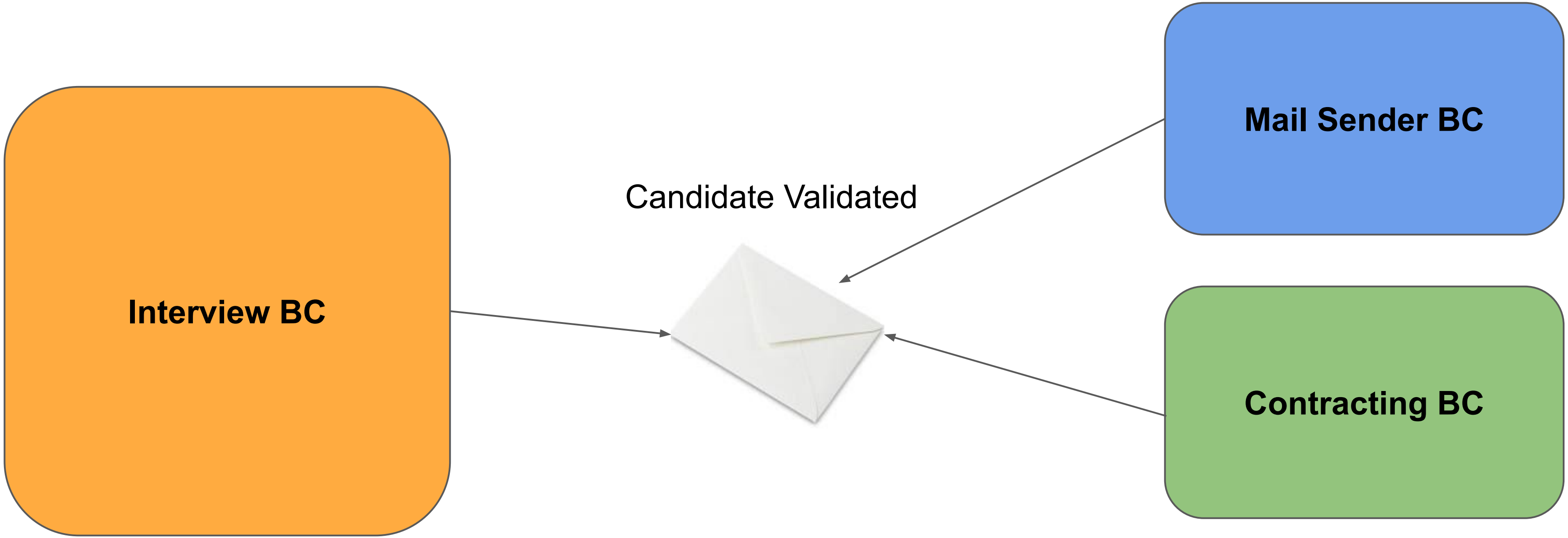
Forcing a Sub-Domain having 1 Bounded Context

Domain Complexity is Intrinsic

Technical Complexity is Accidental

DDD Bad practices #10

DDD = Reactive Architecture (or CQRS & Event Sourcing, etc.)



DDD Bad practices #9

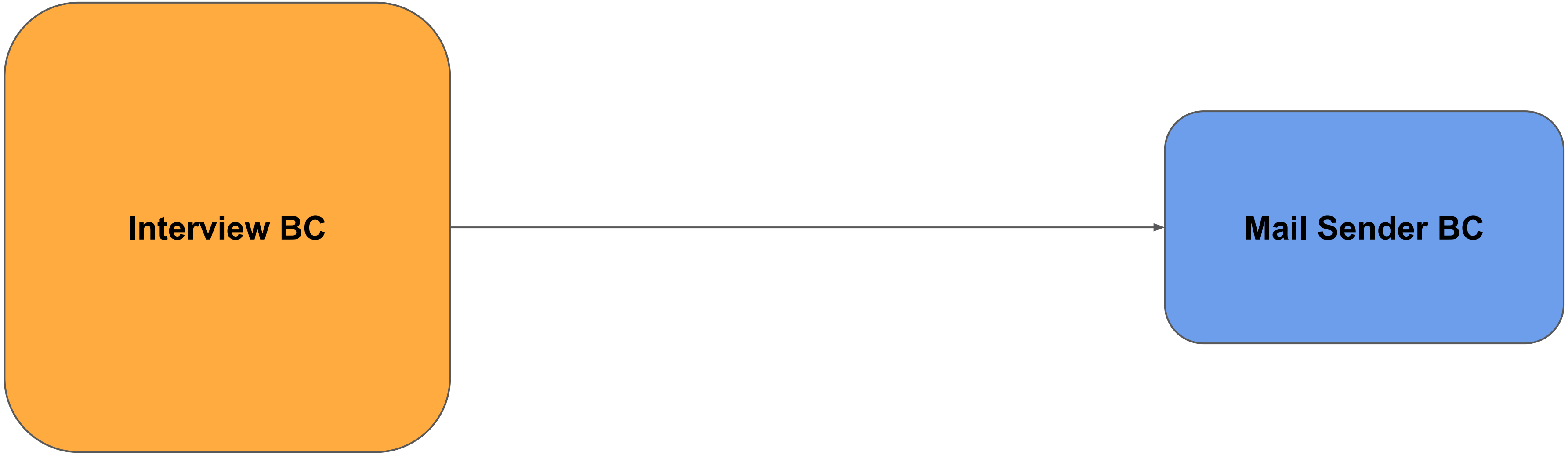
DDD = Reactive Architecture (or CQRS & Event Sourcing, etc.)

DDD Bad practices #10

Put DDD everywhere

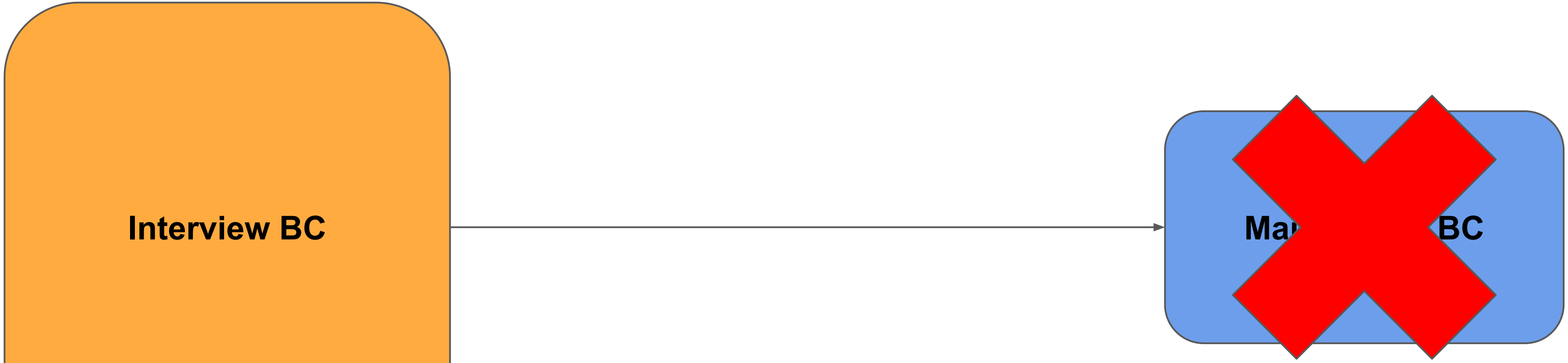
DDD Bad practices #11

Hard Coupling among Bounded Contexts



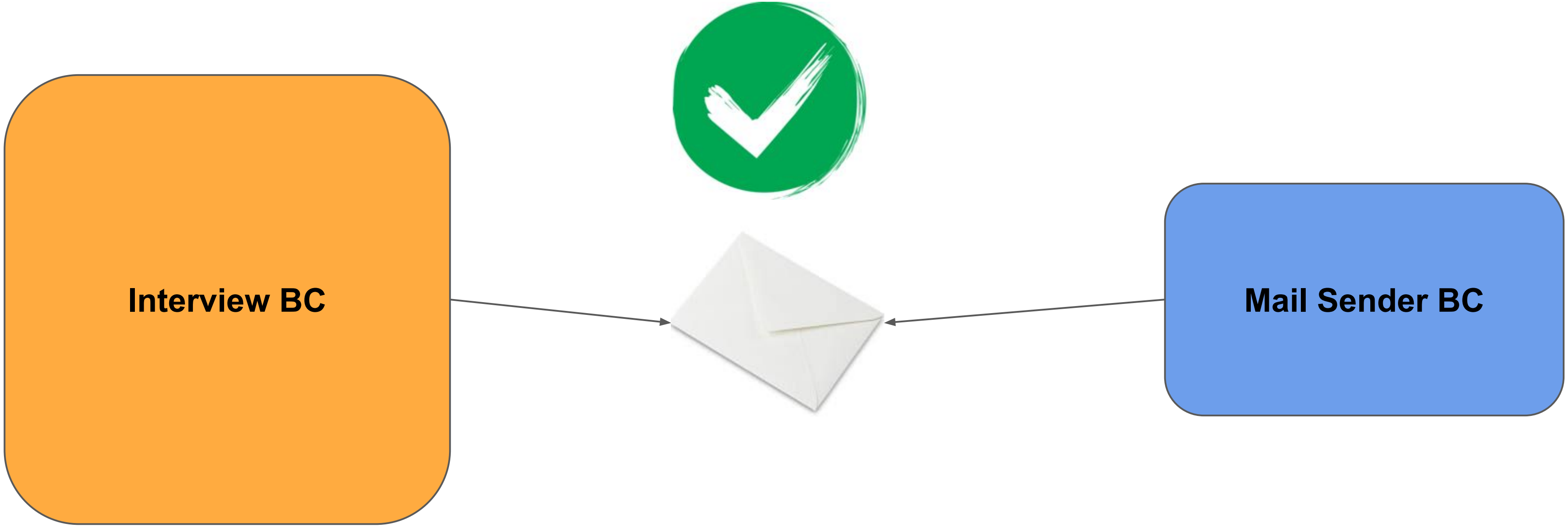
DDD Bad practices #11

Hard Coupling among Bounded Contexts



DDD Bad practices #11

Hard Coupling among Bounded Contexts

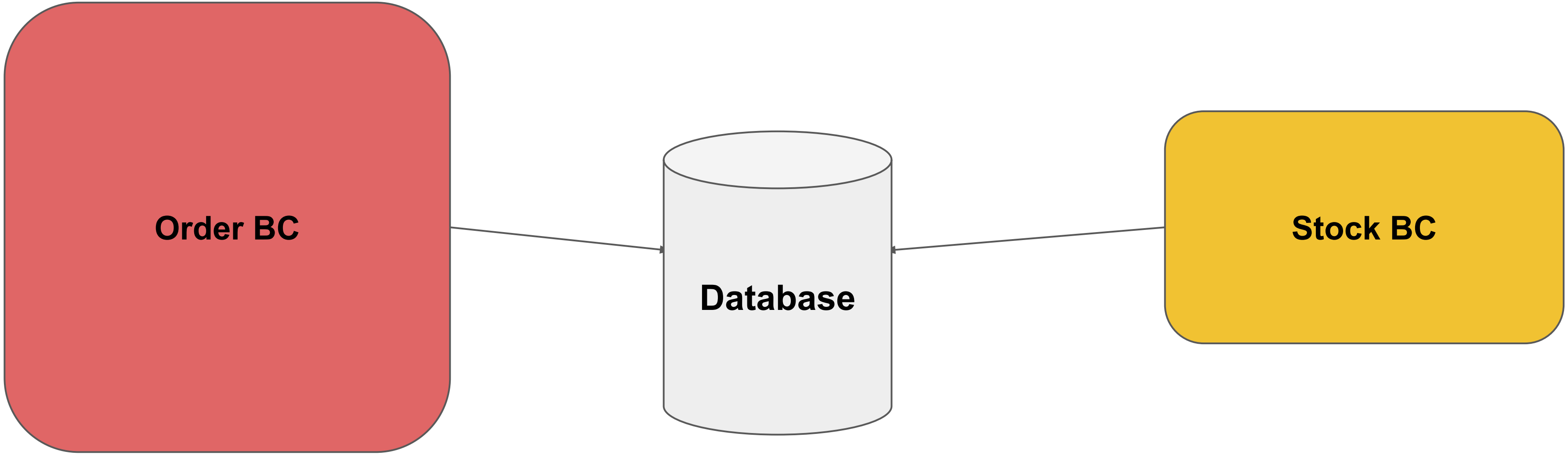


Interview BC

Mail Sender BC

DDD Bad practices #11

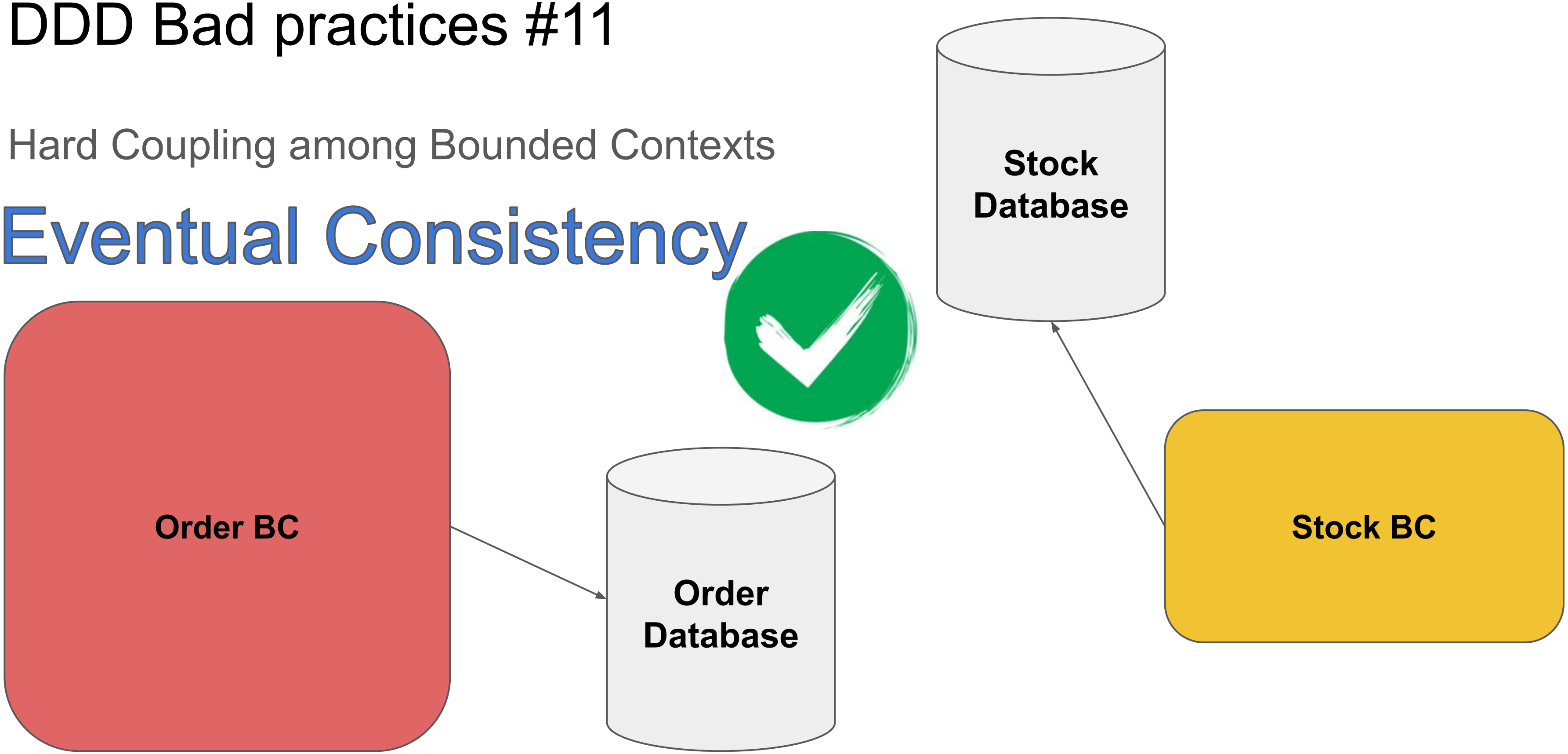
Hard Coupling among Bounded Contexts



DDD Bad practices #11

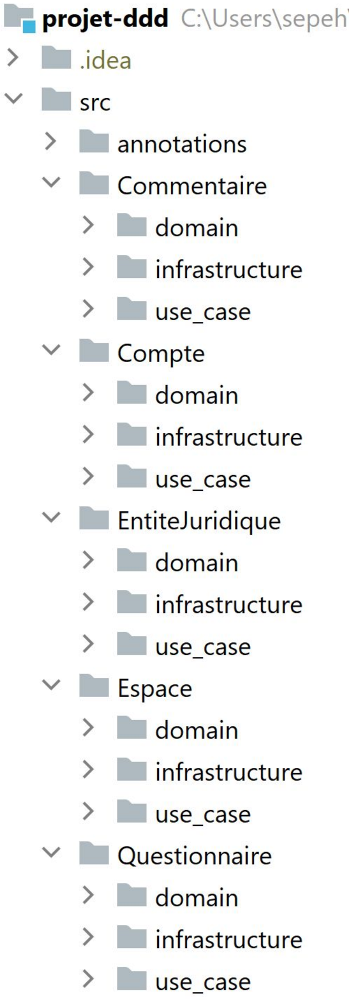
Hard Coupling among Bounded Contexts

Eventual Consistency



DDD Bad practices #11

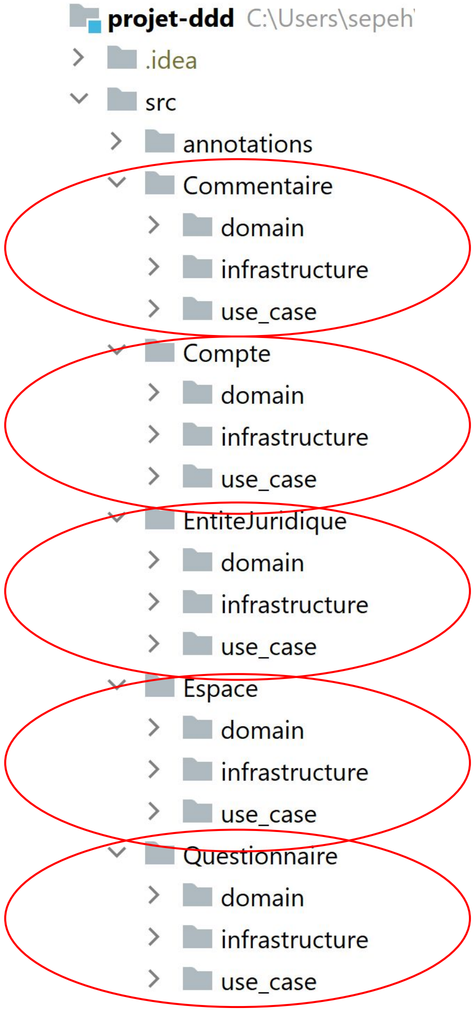
Hard Coupling among Bounded Contexts



```
projet-ddd C:\Users\sepeh
  > .idea
  v src
      > annotations
      v Commentaire
          > domain
          > infrastructure
          > use_case
      v Compte
          > domain
          > infrastructure
          > use_case
      v EntiteJuridique
          > domain
          > infrastructure
          > use_case
      v Espace
          > domain
          > infrastructure
          > use_case
      v Questionnaire
          > domain
          > infrastructure
          > use_case
```

DDD Bad practices #11

Hard Coupling among Bounded Contexts

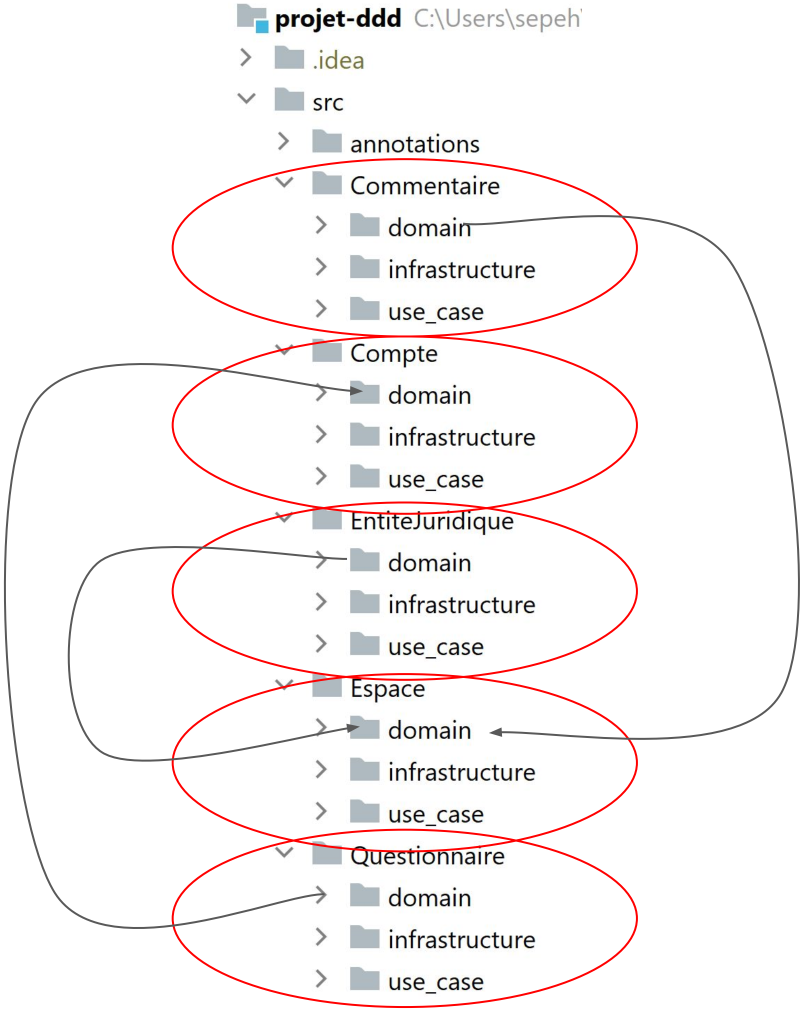


```
projet-ddd  C:\Users\sepeh
  > .idea
  v src
    > annotations
    v Commentaire
      > domain
      > infrastructure
      > use_case
    v Compte
      > domain
      > infrastructure
      > use_case
    v EntiteJuridique
      > domain
      > infrastructure
      > use_case
    v Espace
      > domain
      > infrastructure
      > use_case
    v Questionnaire
      > domain
      > infrastructure
      > use_case
```

DDD Bad practices #11

Hard Coupling among Bounded Contexts

Distributed Monolith ✗



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> .idea
v src
  > annotations
  v Commentaire
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    > use_case
  v Compte
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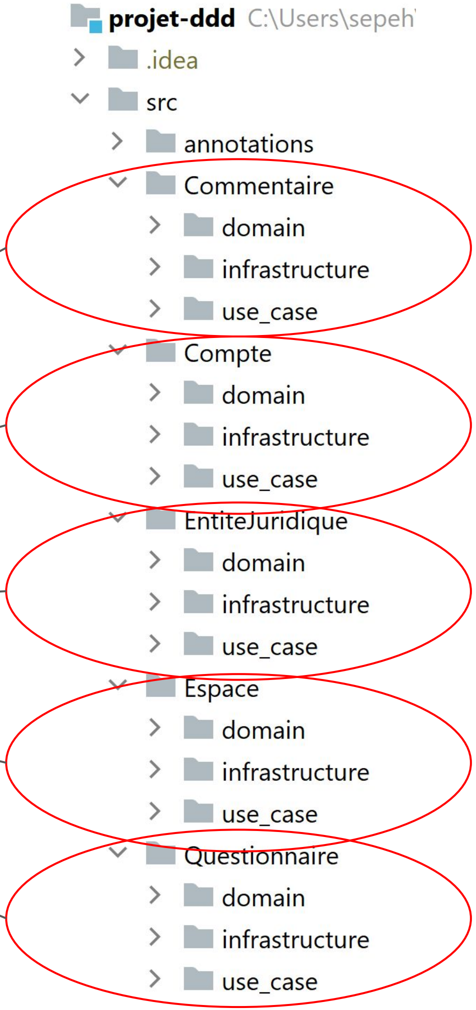
    > infrastructure
    > use_case
  v EntiteJuridique
    > domain
    > infrastructure
    > use_case
  v Espace
    > domain
    > infrastructure
    > use_case
  v Questionnaire
    > domain
    > infrastructure
    > use_case
```

DDD Bad practices #11

Hard Coupling among Bounded Contexts

Expose Services

{ REST }



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      v Compte
          > domain
          > infrastructure
          > use_case
      v EntiteJuridique
          > domain
          > infrastructure
          > use_case
      v Espace
          > domain
          > infrastructure
          > use_case
      v Questionnaire
          > domain
          > infrastructure
          > use_case
```

DDD Bad practices #12

Performance Obsession

DDD Bad practices #12

Performance Obsession

First : Make it Work

DDD Bad practices #12

Performance Obsession

First : Make it Work

Than : Make it Right

DDD Bad practices #12

Performance Obsession

First : Make it Work

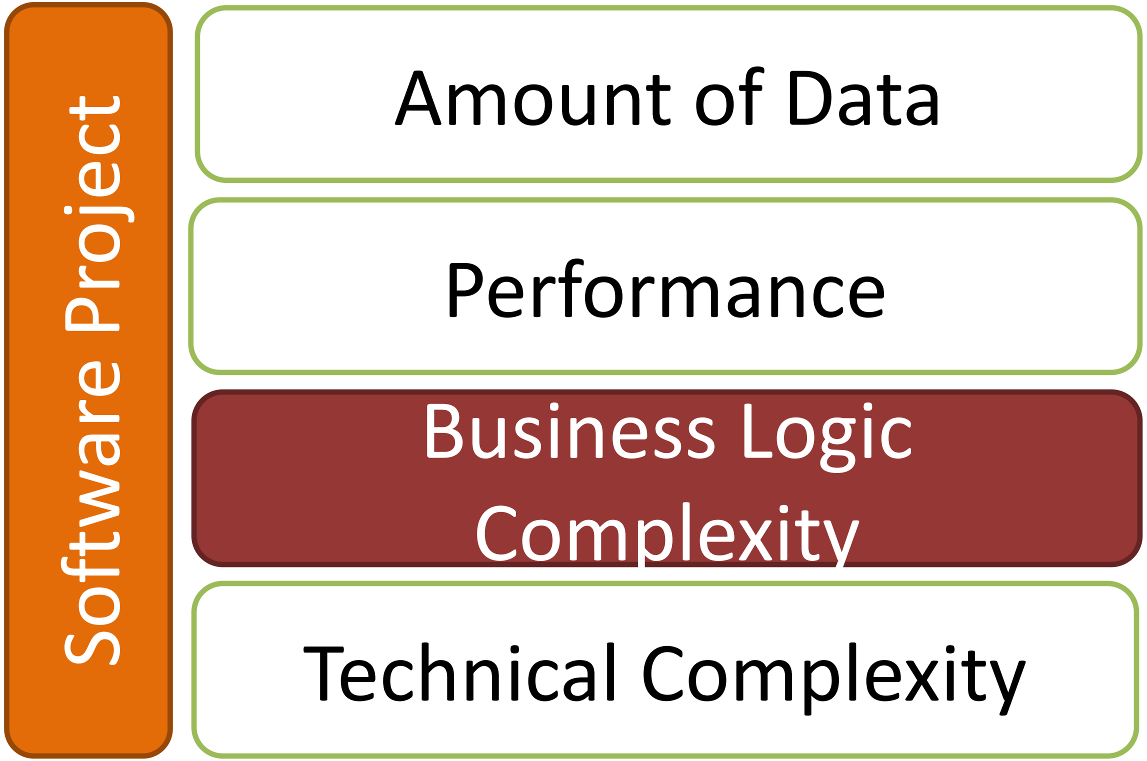
Than : Make it Right

Last : Make it Fast

DDD Bad practices #12

Performance Obsession

DDD
Application
Area



Software Project

Amount of Data

Performance

Business Logic Complexity

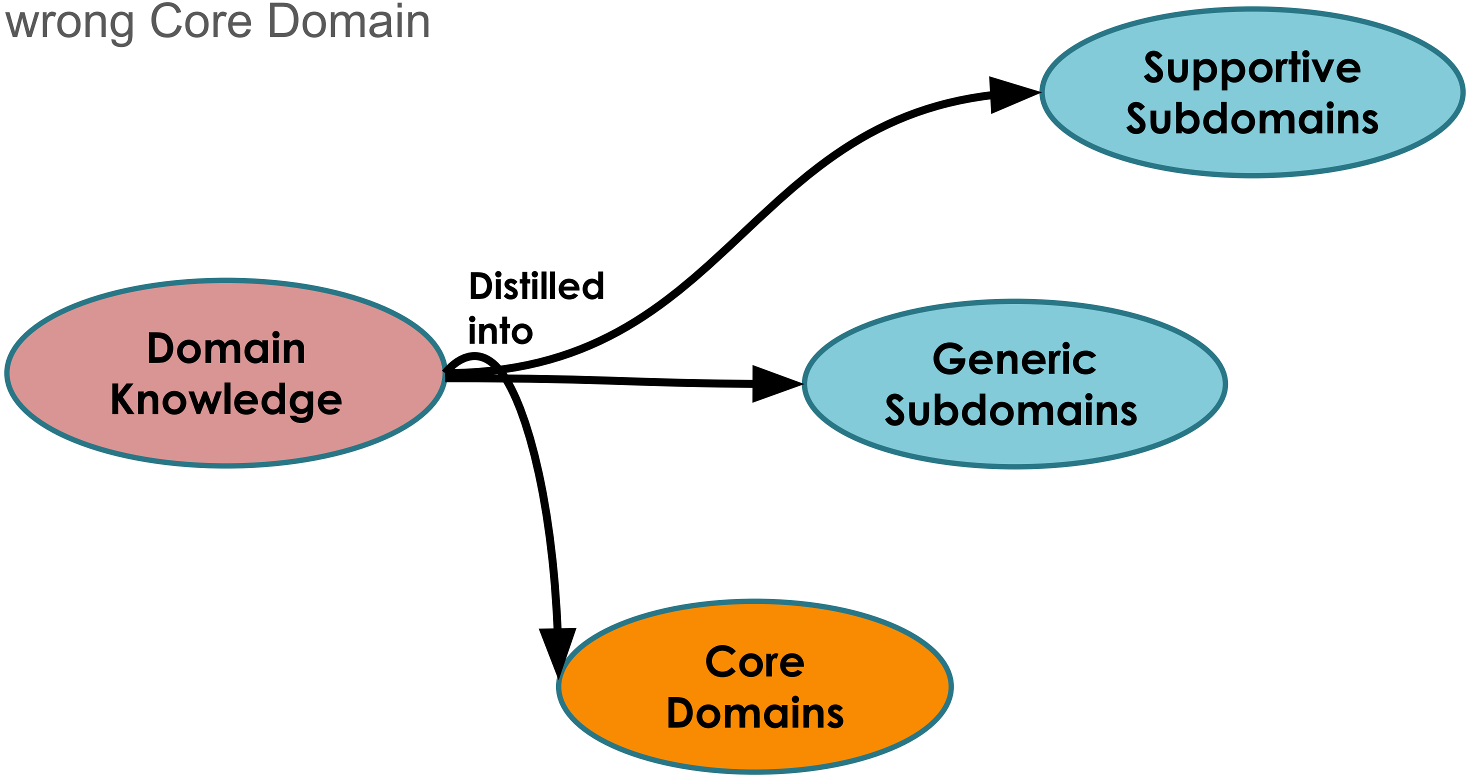
Technical Complexity

DDD Bad practices #15

Absence of Domain Expert

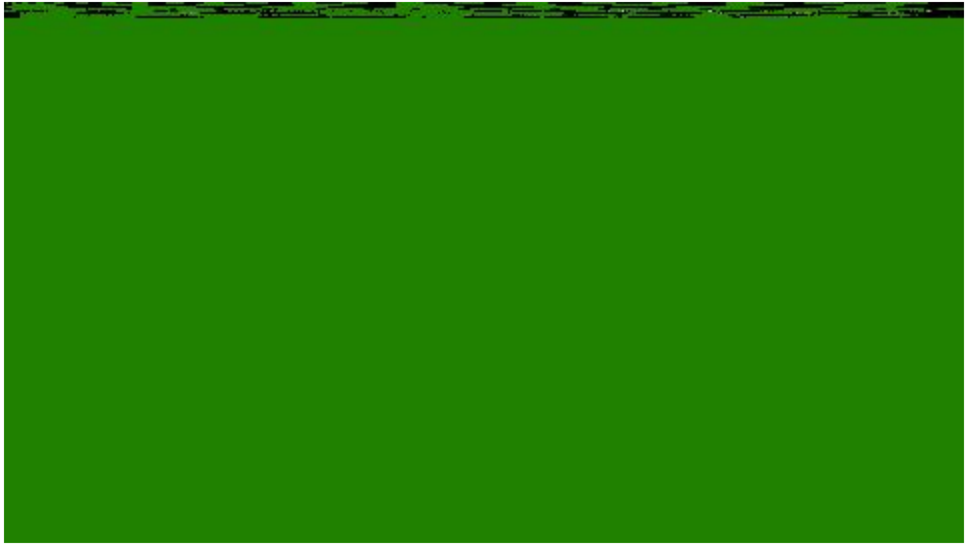
DDD Bad practices #12

Find a wrong Core Domain



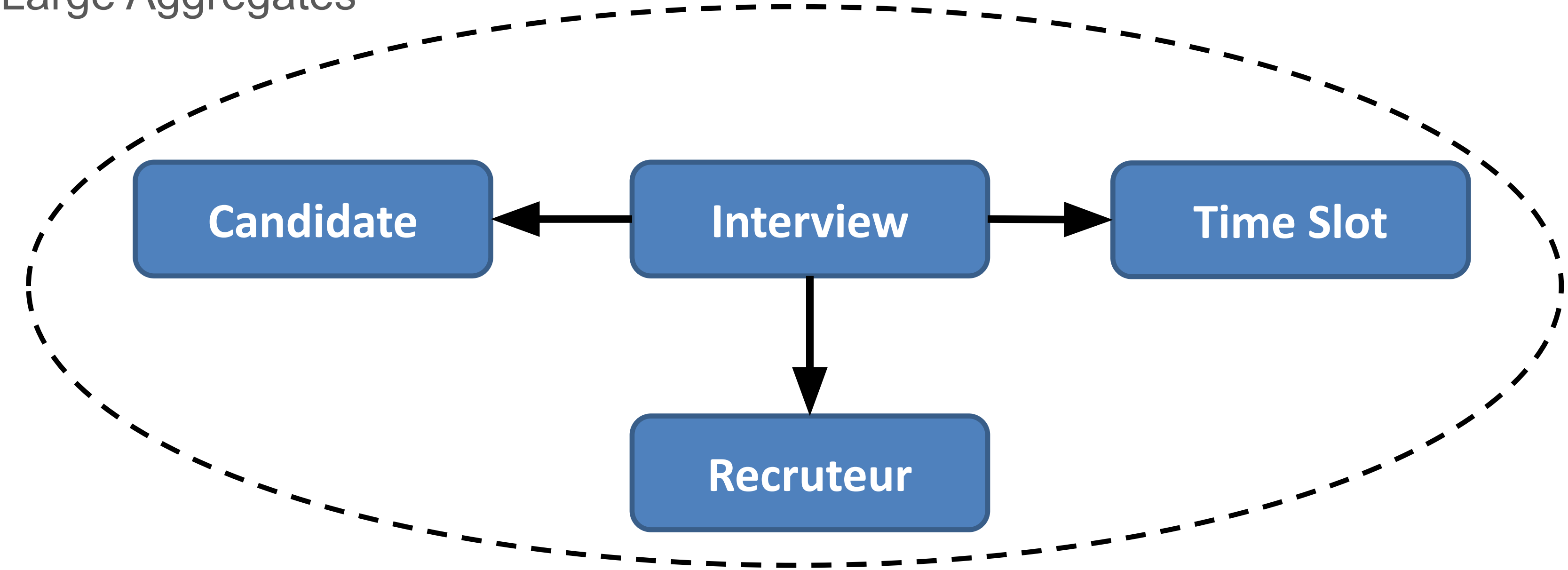
DDD Bad practices #13

Focus on Tactical Design : DDD is not all about code



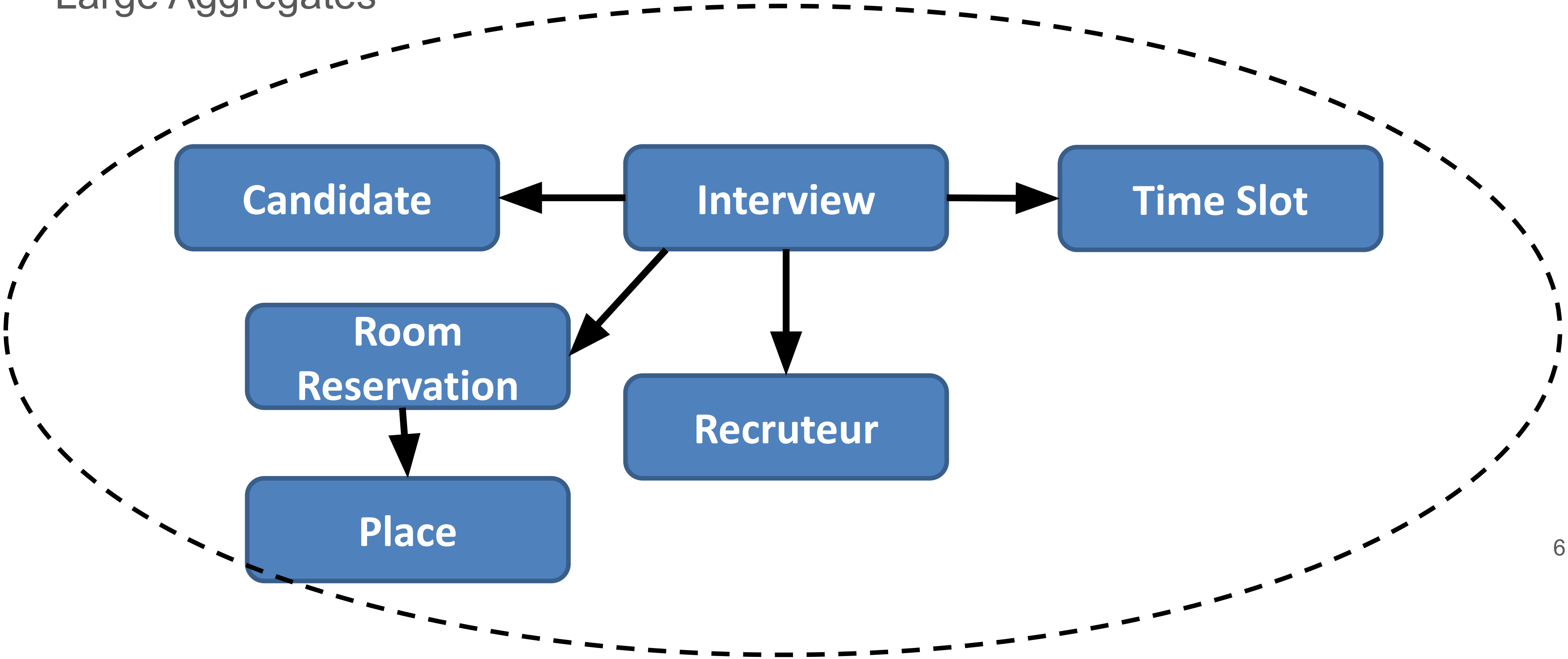
DDD Bad practices #14

Large Aggregates



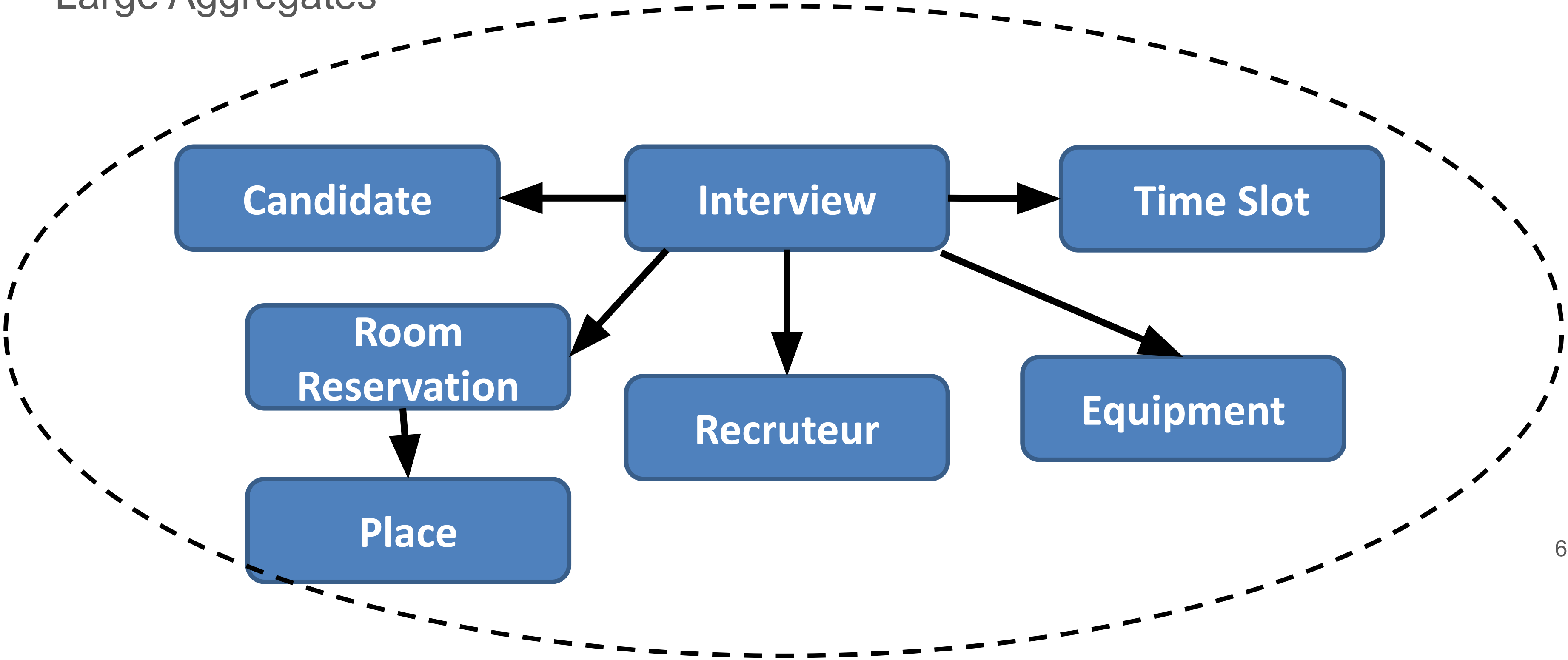
DDD Bad practices #14

Large Aggregates



DDD Bad practices #17

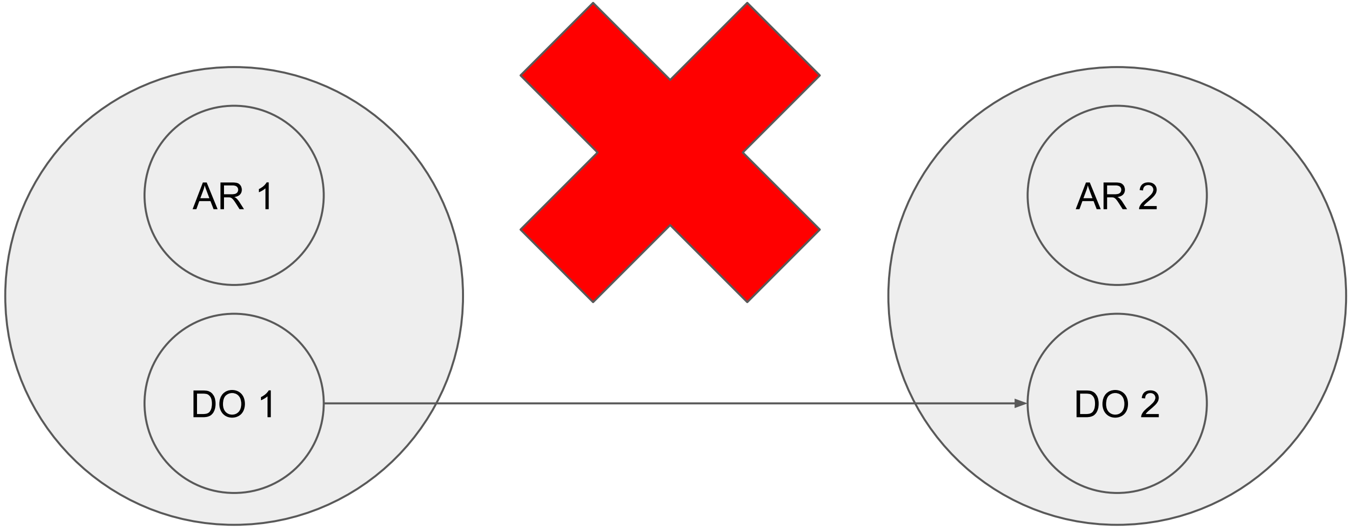
Large Aggregates



DDD Bad practices #15

Coupling among Aggregates

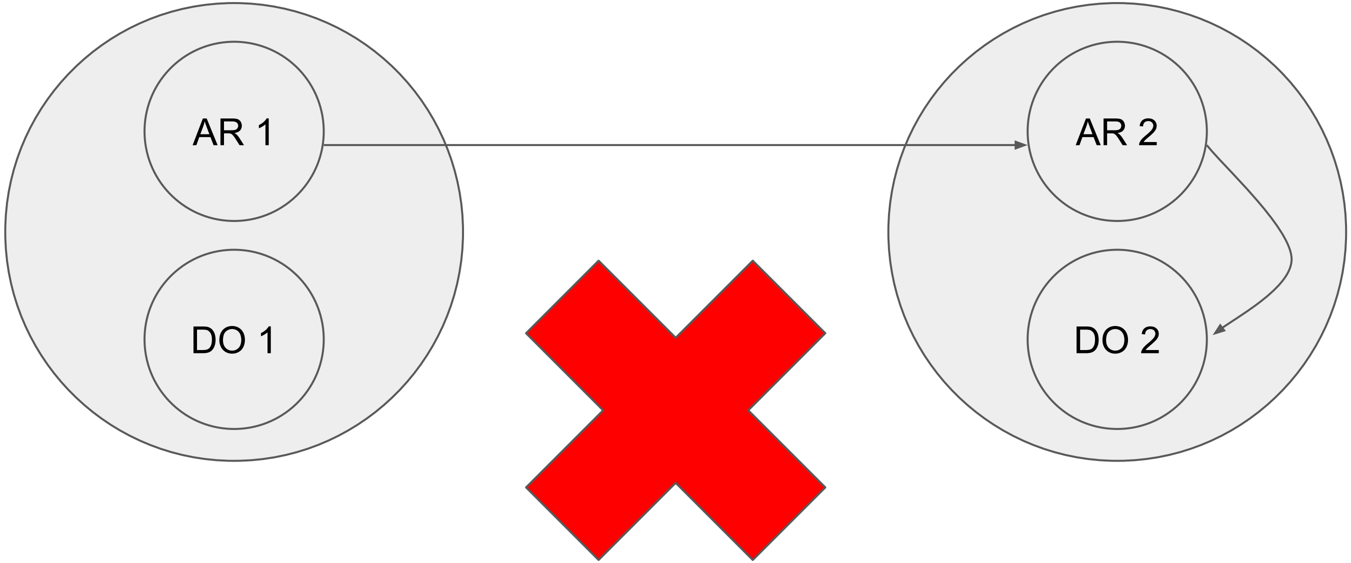
AR : Aggregate Root
DO : Domain Object



DDD Bad practices #15

Coupling among Aggregates

AR : Aggregate Root
DO : Domain Object



DDD Bad practices #15

Coupling among Aggregates

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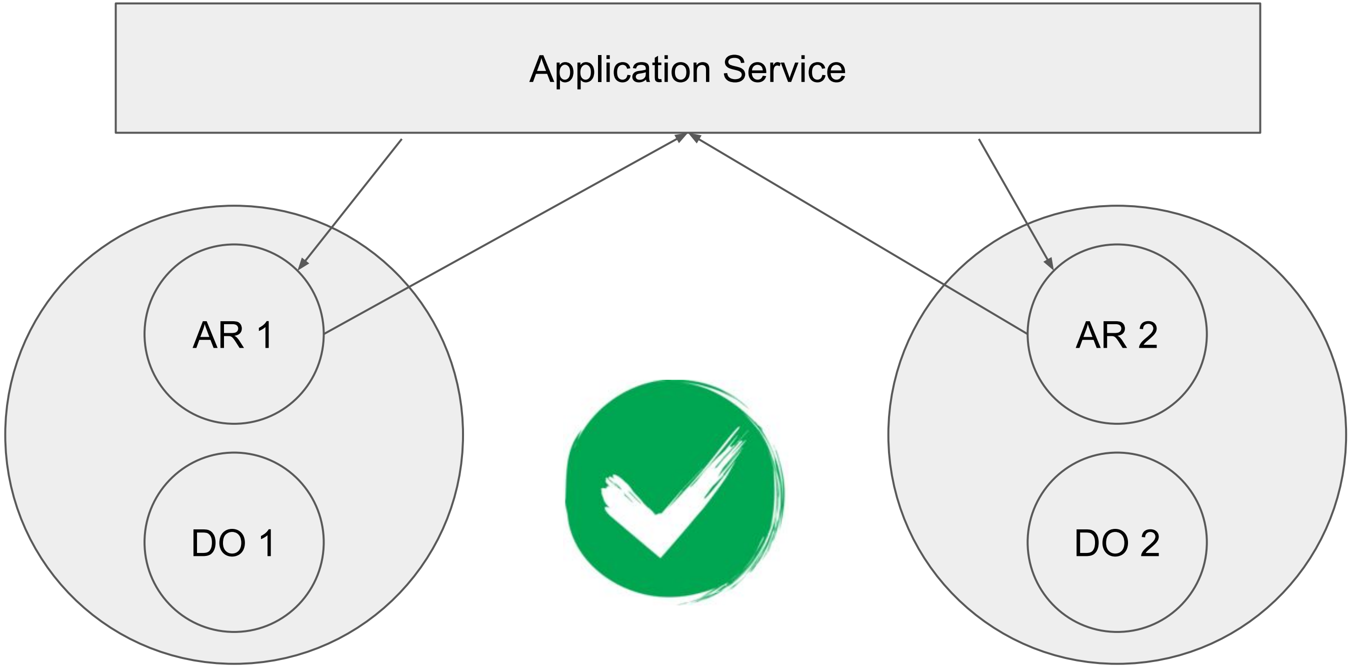
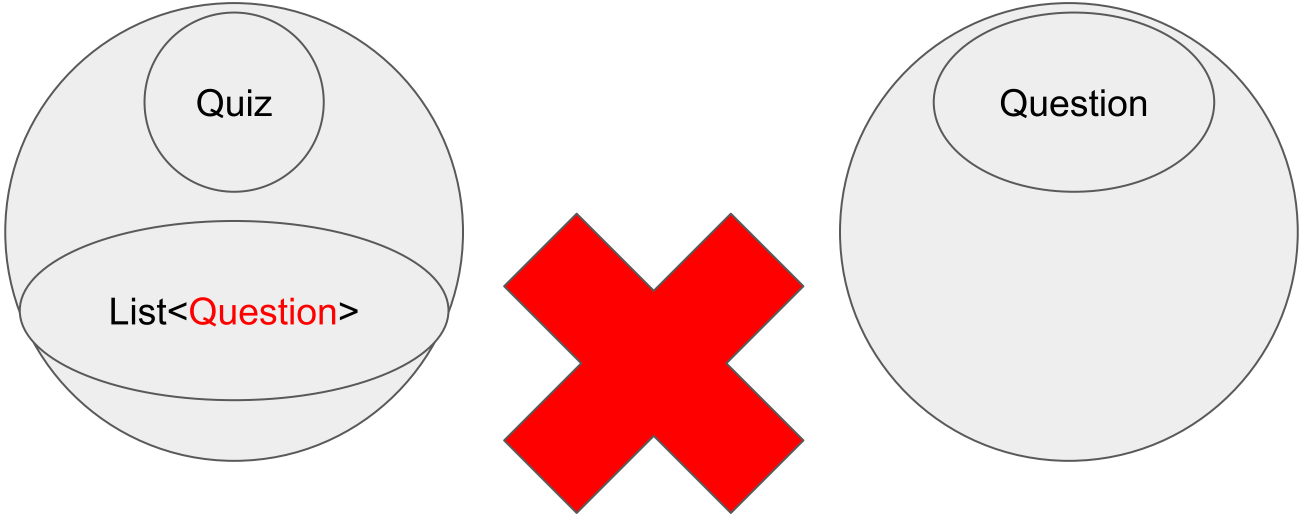
DO : Domain Object



DDD Bad practices #15

Coupling among Aggregates

AR : Aggregate Root
DO : Domain Object

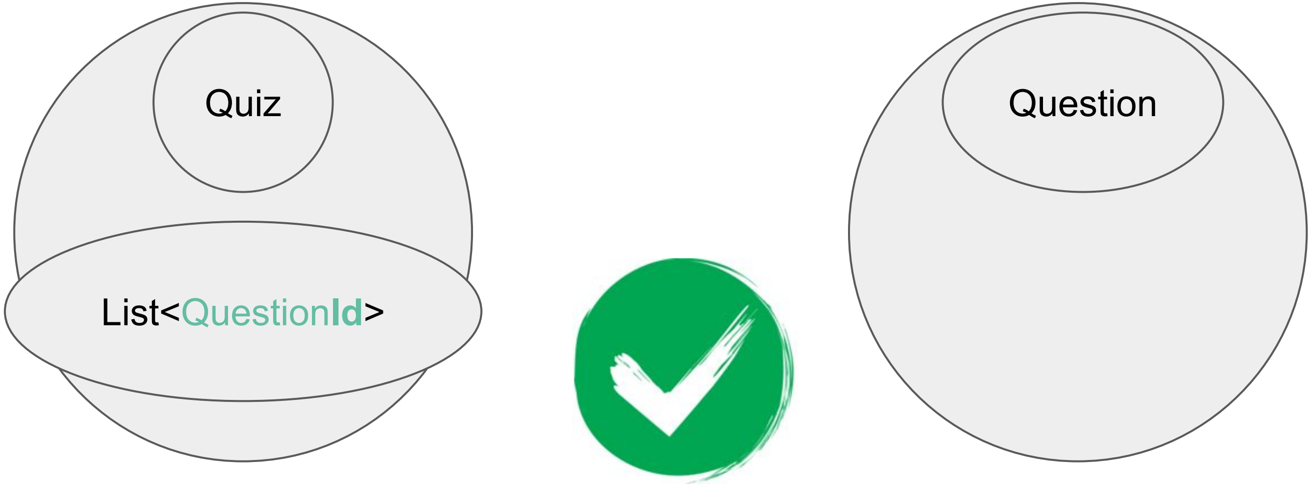


DDD Bad practices #15

Coupling among Aggregates

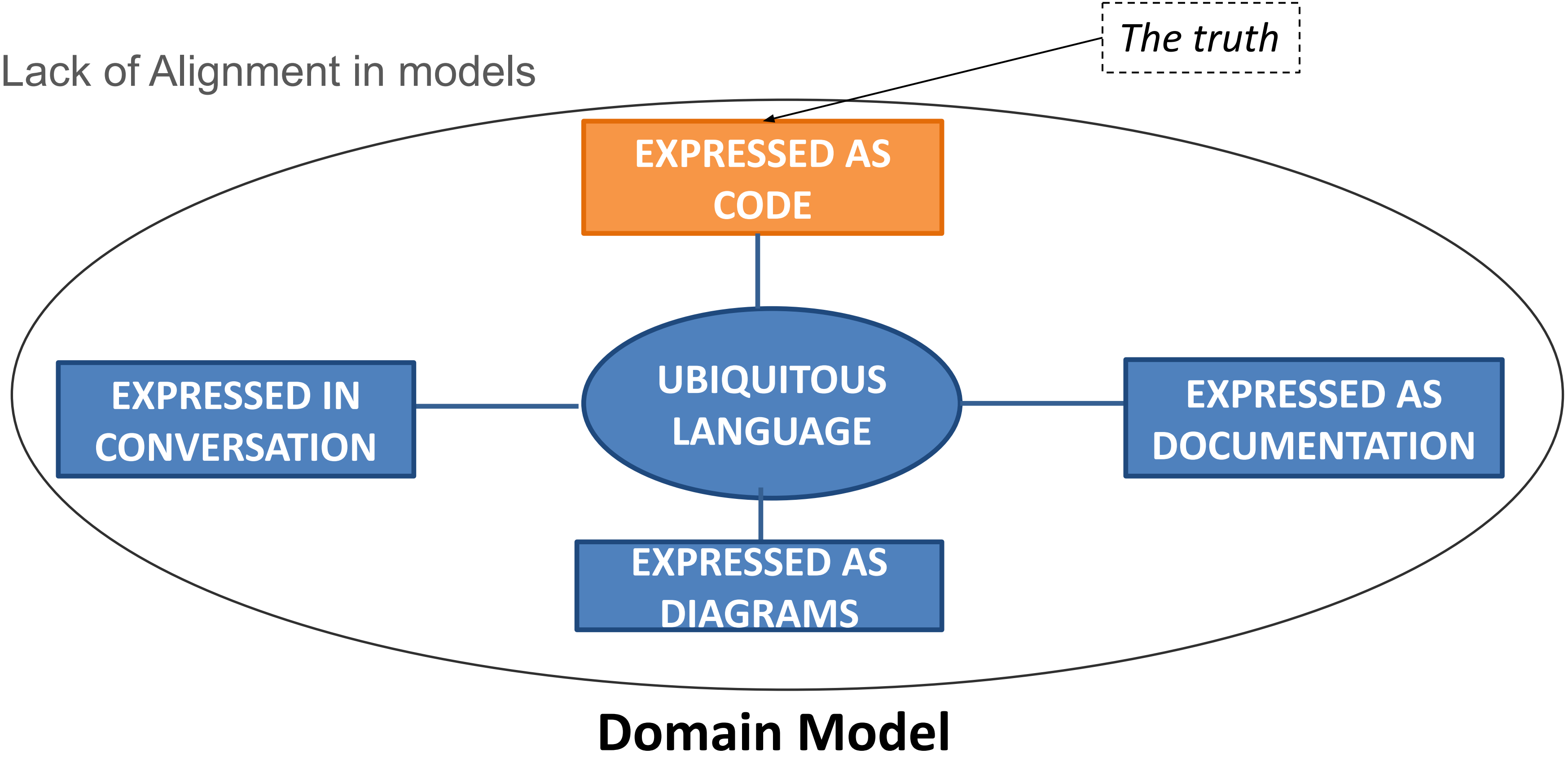
AR : Aggregate Root
DO : Domain Object

Navigate by Identifier

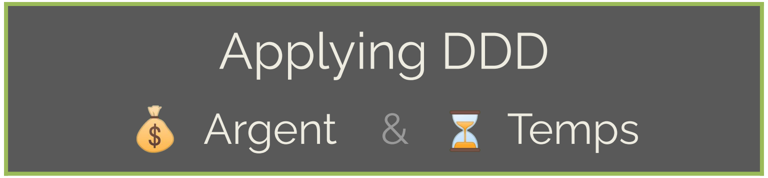


DDD Bad practices #19

Lack of Alignment in models



Prerequisites to implement DDD



Applying DDD

💰 Argent & ⏳ Temps

- Sustainable Product
- Well Formed Developers
- Available Domain Experts
- Complex Domain

Questions ?

@SepNamdar

ممنون
THANK
YOU
GRACIAS
ARIGATO
SHUKURIA
DANKSCHEEN
TASHAKKUR ATU
YAQHANYELAY
TINGKI
BİYAN
SHUKRIA
SUKSAMA
EKHMET
GRAZIE
MEHRBANI
MAAKE
KOMAPSUMNIDA
GOZAIMASHITA
EFCHARISTO
JUSPAXAR
PALDIES
BOLZÏN
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