

Starting the project

Programming 4

Agenda



1. Vision
2. Glossary
3. The first sprint

Vision

Vision document / scrum add-on

- High level project definition
 - Use a template document
- Serves as a an executive summary of the project.
 - Quick overview for anyone interested in the project or for new team members
- Input for a go/no-go decision on the project
- New requirements must be in line with the project vision

Vision: contents

- Positioning
 - Problem statement

The problem of affects	[short problem description] [who (stakeholders) is directly or indirectly affected by the problem?]
The impact of which is	[what is the impact of the problem? What are the consequences?]
a successful solution	[list key benefits of a succesful solution fort he problem. Start each characteristic with a verb: 'provides', 'supports'...]

- Alternative solutions
 - Other approach to solve the problem for the product owner?
 - Larger or smaller scope
 - alternative solutions on the market

Vision: Contents

- Stakeholders
- Product overview
 - Product Perspective: How does the result of your project fit in the business environment? Interactions of your product with other systems (internal and external). Draw a model.
 - **Short** summary of capabilities, characteristics and constraints

Vison: extra's

- You do not have to limit yourself to these elements. Add any other information that is essential for the project:
 - Cost/benefit analysis
 - Return On Investment
 - Risks
 - Architecture or technical differentiators
 - Project organisation (staffing, roles and responsibilities)

Vision: living document

- The vision document is adapted as the project evolves. It provides an accurate description at all times

Scrum extended overview





Glossary

Ubiquitous language (DDD)

- For each concept (abbreviation) in the **bounded context (DDD)** in which the team works, there is one official term
 - Adopt business terms, speak the language of the customer
 - the domain model will be the backbone of the ubiquitous language
- **Everybody in the team** uses the same terms **everywhere** (business, analysis, design, code) to facilitate communication
 - Common words have multiple meanings (e.g. course). Specify their meaning within the bounded context
 - Also contains composite elements e.g. sale (has a date, shop ...)

Glossary

- Do not lose time because people use the same name for different things / different names for the same thing



What do we mean by **train** in our project?



Type 12 Steam Locomotive (1939), Trainworld, Tervuren

Glossary

- Do not lose time because people use the same name for different things / different names for the same thing



What do we mean by **train** in our project?

- The 8.15 from Antwerp to Brussels
- The train on Tuesday, 22/9 from Antwerp to Brussels that departed at 8.28 (13' delay)
- Train Nr 248562 that is in repair



Type 12 Steam Locomotive (1939), Trainworld, Tervuren

Glossary entries

- name
- Definition
 - In another project this may have another meaning
- Synonyms (optional)
 - List synonyms you might find in documents, hear in discussions...
 - In the project we'll use the official name everywhere, also in code
- Business rules (optional)
 - A train that is canceled has no delay
 - All totals are rounded to €0.05
- Remarks (optional)
- Examples (optional)

Glossary / add-on



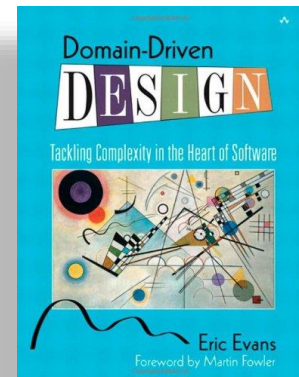
Refresher

Review the domain model workshop of integrated project 1

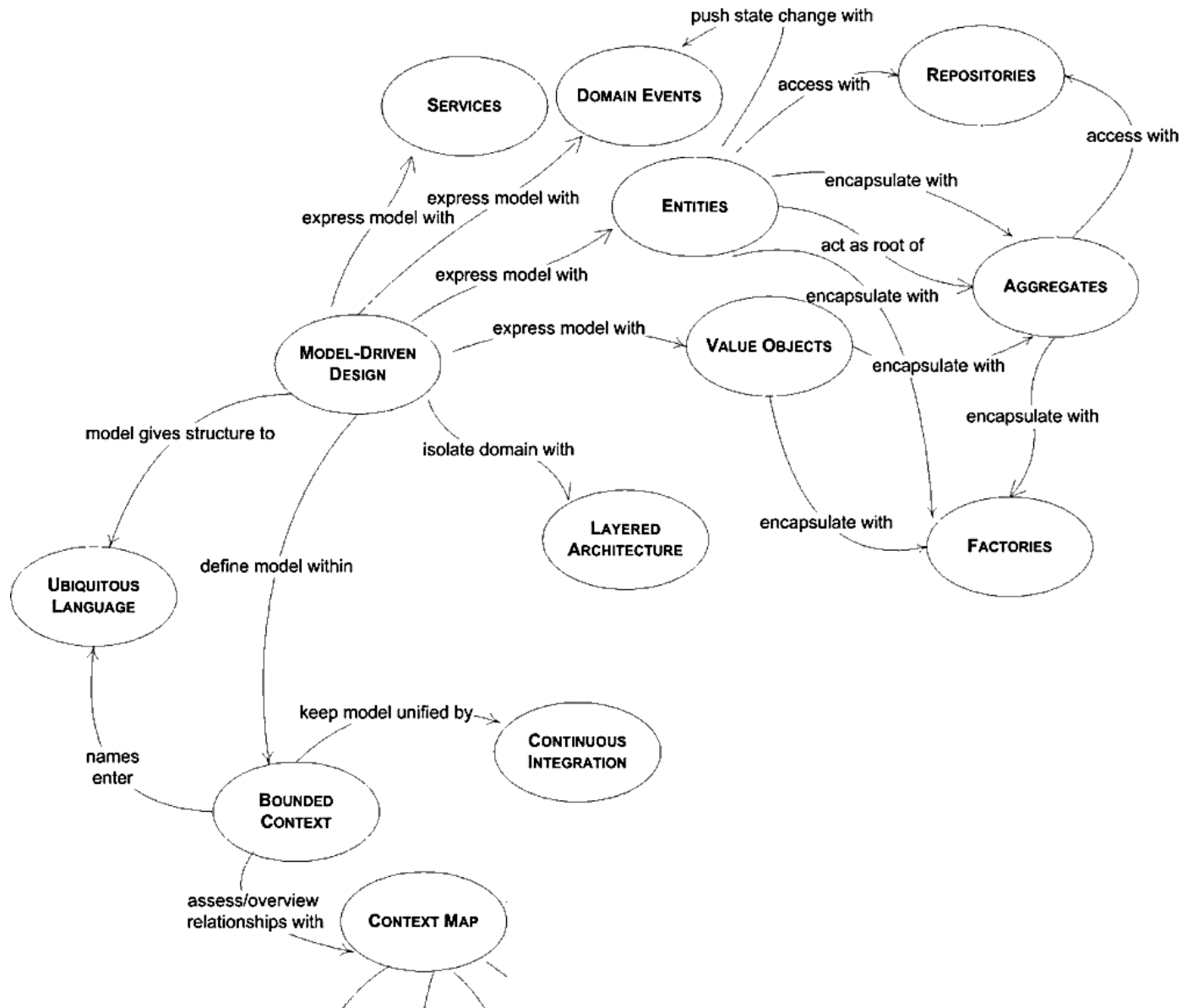
Concept	Definition	Synonyms	Description Remarks
availability	product status indicating if it can be borrowed		Possible values: Available, Temporary Unavailable, Unavailable
cancel	Remove a reservation		A compensation needs to be payes if a reservation is canceled less than a week before it starts,
supplier	Registered user offering products	lender	

DDD: Domain Driven Design

- Ubiquitous language is a Domain Driven Design (DDD) pattern
- DDD designs software based on domain concepts
 - domain concepts use a uniform language (**DDD: ubiquitous language**)
- We will **not** handle DDD in detail, but use some popular DDD patterns
 - Many DDD patterns are shared with other pattern catalogues (GRASP, GoF, SOLID...)
 - **DDD** will be used as a label for DDD patterns/equivalents



DDD: some patterns



The first sprint

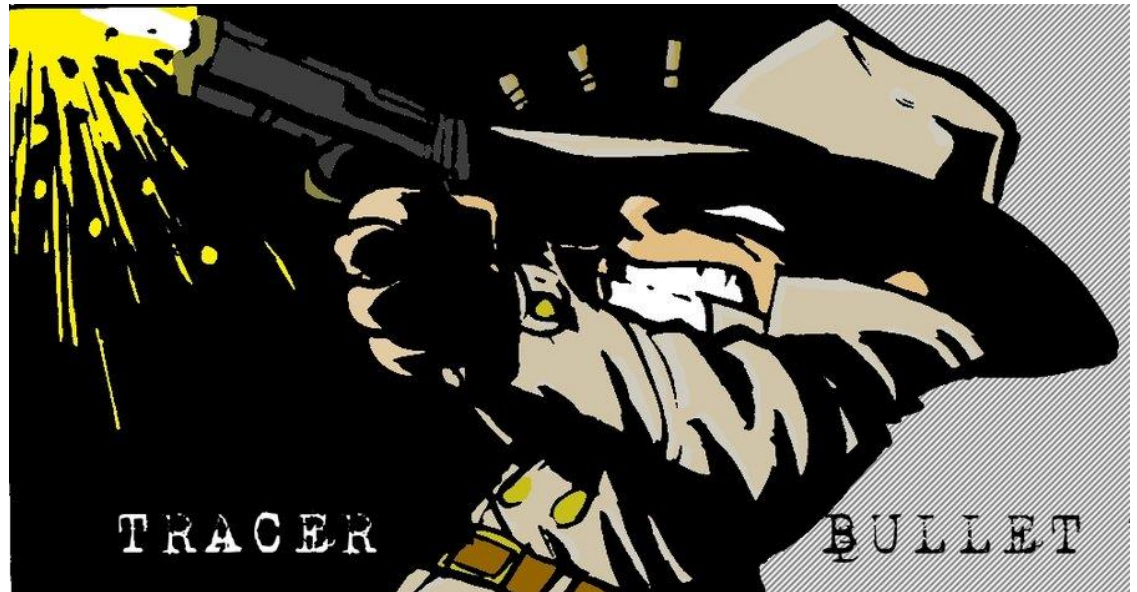


Starting the project

- How do you start a sprint without a backlog?
- Project setup conflicts with the continuous nature of iterative development
- Unified process uses an inception phase
- Scrum
 - make a backlog with tasks to be done to get started
 - Start a typical sprint
 - Early sprints will have more "early project disciplines": setup, requirements gathering, analysis, architecture...
 - produce less working code
 - That's OK. Velocity will increase as you progress
- Based on the Vision
 - Go/nogo?
 - Build/buy?

Tracer bullet / Scrum add-on

- Very basic user story that cuts through all architectural layers
 - Early in the process
 - Architectural proof of concept



Samenvatting



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