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Domain-Driven Design Training

Content & Organisation

Training Presentation

Presentation:

Software should serve a business domain. The objective of Domain-Driven Design (DDD) is to create better software more easily by focusing on the business domain rather than technology.

Software is well-suited to its domain when it effectively addresses domain-related problems. DDD is an approach and a set of design techniques to manage domain complexity and align the software with the business concepts it handles.

This training teaches you the fundamentals of DDD and its practical implementation in your software.

Goals:

- Mastering the Domain-Driven Design (DDD) approach: why? benefits? key principles.
- Study and implement the DDD building blocks.
- Study and implement design principles: supple design and strategic design.
- Explore architectures that support a DDD approach.
- Discuss practical and concrete aspects of DDD with experience sharing.

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Training Conduct

Audience:
- Architects
- Developers (junior or senior)
- Team Leaders
- Project Managers

Prerequisites:
- Knowledge of object-oriented programming (Java, C#, Python, etc.).
- Experience in software development and engineering

Training materials:
- PDF slides (in english), distributed at the end of the training.

Duration:
- 3 days / 21 hours

Teaching mode proportions:
- 50% theorical, 50% practical . Exercises can be adapted to your context.

At the end of the training program, participants receive a certificate to confirm that they have achieved the objective.

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Training Organization

Location: training can be intra-company, or inter-company. In this case, the exact location will be provided during the registration.

Scheduling: according our website calendar for inter-company. For intra-company, scheduling is to be determined with the customer.

Costs:
- inter-company training: 1 790 € per participant
- in-house training: price upon quotation

Contact: formations@defsquare.com or +33 6 71 01 06 52

For all individuals with disabilities, please feel free to contact us at +33 6 71 01 06 52 or formations@defsquare.com.

Additionally, all our training sessions are available online.

Defsquare offers breakfast at the training location and lunch for each of your days with us.

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Domain-driven Design

Day 1
Introduction to DDD approach

Fundamentals

Day 2
DDD Building Blocks
DDD Supple Design for scalable and testable software

Day 3
Architectures for a DDD approach

DDD Strategic Design: Integrate software into its ecosystem, integrate teams

The training uses an e-commerce system as a common thread for practical cases. Participants can also submit cases related to their domain if they wish.

The code structure and solutions are provided on the Java platform, but using another platform (.Net, Ruby, Python, Clojure, etc.) is also possible.
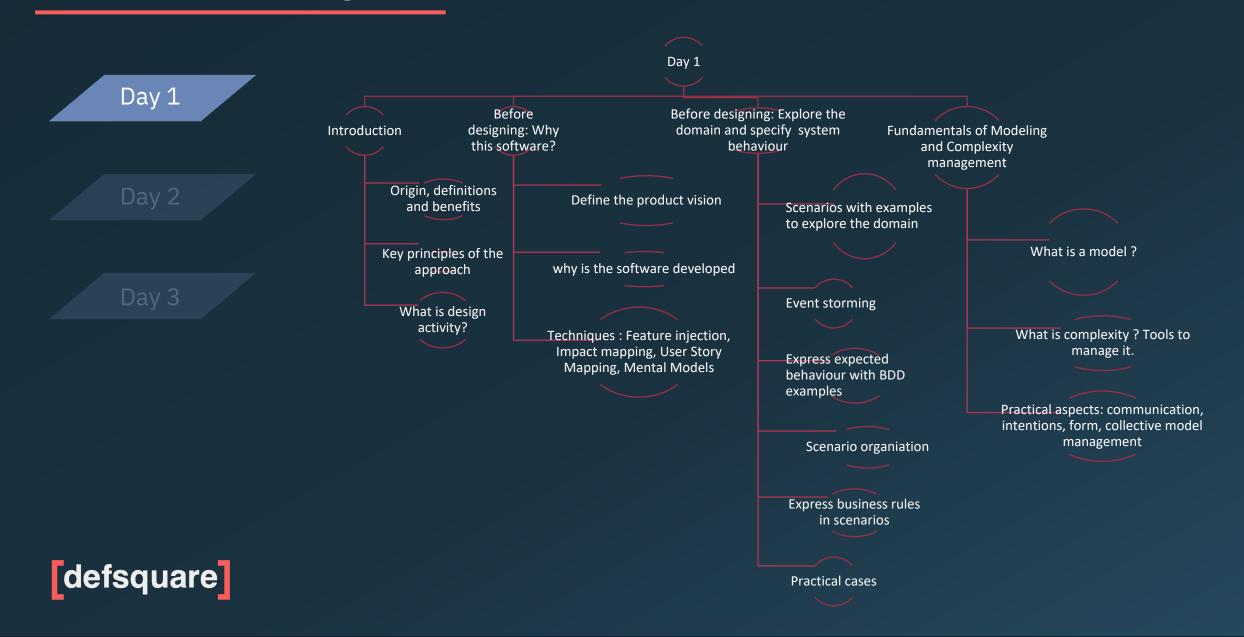
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Domain-Driven Design

Day 1

Day 2

Day 3

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Day 1

Introduction

Before designing: Why this software?

Before designing: Explore the domain and specify system behaviour

Fundamentals of Modeling and Complexity management

Origin, definitions and benefits

Key principles of the approach

What is design activity?

Define the product vision

why is the software developed

Techniques : Feature injection, Impact mapping, User Story Mapping, Mental Models

Scenarios with examples to explore the domain

Event storming

Express expected behaviour with BDD examples

Scenario organiation

Express business rules in scenarios

Practical cases

What is a model ?

What is complexity ? Tools to manage it.

Practical aspects: communication, intentions, form, collective model management

Domain-Driven Design

Day 1

Day 2

Day 3

Day 2 - DDD building blocks

- Ubiquitous language
- Building blocks
- Practical exercises

Building blocks:
- Value object
- Entity
- Repository
- Factory
- Service
- Module
- Aggregate

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Domain-Driven Design