

A set of heuristics for improving precision in UML models

Presenters: ExampleSubmitter

Type: CS

Duration:

ID: 7

One line description

This case study describes a set of heuristics that can be applied in order to understand where a visual UML model might be incomplete

Topics

What Really Works

Themes

Process

Practice

Abstract

InferData have been helping HSBC apply OCL to define the business rules that apply to FX Trade messages used to integrate Front and Back Office Systems.

The session will look at the lessons learnt and benefits identified, including people issues and technology constraints.

The purpose of this session is to provide a set of heuristics that will help modellers spot potential weaknesses in a UML structural model. The weaknesses in question are unavoidable when using visual models for the purpose of system specification without additional constraints.

The presenters will show that a precise model can be used to underpin a model driven development approach today.

However, writing OCL is a large step for most analysts or developers. This session aims to provide an easy introduction that concentrates on the 'what' of specification constraints as opposed to the 'how' (syntax).

Participants will learn techniques that will enable them to better evaluate a model with regard to completeness, consistency and precision.

Audience

- Should have some experience of using UML to specify a system.
- Relevant to: Business Analysts, Systems Analysts, Developers (in a process that requires the use of visual models), Testers, Architects

Benefits

- Learn practical ways that can be applied immediately to improve the quality of UML models on any project.
- Understand one of the key steps in the move towards MDA

Materials

A set of slides explaining and demonstrating each heuristic with an full example model

Process

Mainly taught, but with audience involvement stronly encouraged

Detailed timetable

00:00 - 00:05 Hellos

00:05 - 00:20 Why precision is needed

00:20 - 01:00 Heuristics for where to add constraints to type models

01:00 - 01:10 People issues

01:10 - 01:15 Wrap-up

Outputs

Other heuristics suggested by participants

History

Based upon a tutorial and mentoring deliverd to HSBC and a Swiss bank

Session Leaders

Example Submitter

SPA Conference

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A non-existent user used for submitting example proposals