Eclipse Sirius

Advance course

Sirius is an Eclipse-based technology that allows users to rapidly create custom Graphical Modeling workbenches by leveraging existing Eclipse Modeling technologies, including EMF, GMF, and Xtext.

Based on a Viewpoint approach, Sirius makes it possible to equip teams who have to deal with complex architectures on specific domains.

Workshop

This workshop is primarily focused on advance Sirius concepts described in the course content. Participants will have an opportunity to create a fully working Graphical Modeling Workbench using Sirius, and practically make use of all the advanced concepts from the course content.

Eclipse Xtext framework will also be introduced during this course.

Prerequisite

EMF Basic and Advance courses are mandatory prior to taking this course.

Modalities

Duration: 8 Hours
Structure: Instructor-led with 100% hands-on labs
Participants: Maximum 8 per workshop
Equipment: Participants supply their own computer with the latest Eclipse and Modeling tools installed.

Agenda

Sirius overview

- Introduction
- Architecture overview
- Concepts - Session, Transactional Editing Domain, Editing Session, Model accessor, Dialects, Viewpoint registry.

View Specification model

- Introduction
- Specifying ViewPoints
  - Container, Node, and Connection mappings
  - Specifying Tools and Model operations
  - Specifying Filters
  - Validation.

Writing Queries

- Using AQL, Acceleo and Raw OCL
- Java Services
- Using Specialized interpreters.

Advanced concepts

- Deep dive into Sirius Concepts
- Programmatically working with Sirius
- Introduction to Eclipse Xtext
- Sirius Xtext integration.

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