

Model Driven Development and Patterns in Rational Rose and Rational Software Architect v6.x/v7.x Using UML, Java and WebSphere

Course Code: WS402

Duration: 2 days

Objective

In this intensive workshop, you will learn the Model Driven Development (MDD) approach using Rational Software Architect (RSA) v6.x and v7.x and Rational Rose. Deploy your Java/Java EE applications to WebSphere Application Server v6.x , DB2 v8.x/v9.x, and WebSphere MQ Default Messaging Provider.

- 1. Generating Java source code from UML model.
- 2. Reversing Java source code to UML design model.
- 3. Disassembling Java byte code to Java source code.
- 4. Protecting Java code Asset from reversing engineering.
- 5. Synchronizing Java source code and Java UML model back and forth.
- 6. Learning Gang of Four design patterns support in Rational Rose, and Rational Software Architect 6.x and 7.x.
- 7. Applying IBM Enterprise and Messaging Patterns in RSA6 for EJBs, SDO, JSP, JSF, UML to Java, UML to EJB, EJB to DDL, UML to JACL for WebSphere Application Server v6.x.
- 8. How to Simplify JACL Script Generation for Configuring JMS resources in WebSphere Application Server v6.x
- 9. How to Simplify JACL Script Generation for System Integration Bus (SI Bus), Bus Member, and Queue/Topic Spaces in WebSphere Application Server v6.x.

Topics

Model Driven Development/Design

- What is Forward Engineering?
- Rational Rose, RSA, and IRAD Forward Engineering
- What is Reverse Engineering?
- Rational Rose, RSA, and IRAD Reverse Engineering
- What is Round-trip Engineering?
- Rational Rose Round-trip Engineering
- RSA v6 Round-trip Engineering
- RSA v7 Round-trip Engineering

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- How does Rose Round-trip differ from RSA v6 Round-trip?
- How does RSA v6 differ from RSA v7 Round-trip?

Design Patterns Case Tools

- Design Patterns Case Tool Overview
- Steps to Use GoF Design Patterns In Rose
- Design Patterns Example in Rose
- Steps to Use GoF Design Patterns in Rational Software Architect 6 and 7
- Design Patterns Example in Rational Software Architect 6 and 7

IBM Enterprise Patterns in RSA6

- IBM Enterprise Patterns in Rational Software Architect 6
- Integration of IBM Enterprise Patterns with thin client JSP, JSF, SDO, and Entity EJB
- UML to EJB/Java Mapping and Code Generation
- EJB to DDL Generation

WebSphere Platform Messaging Patterns in RSA6

- Messaging Patterns in Rational Software Architect 6
- Integration of Messaging Patterns with Enterprise Patterns
- Integration of Messaging Patterns with rich client Swing, JMS, and MDB
- UML to EJB/Java Mapping and UML to JACL Generation.

Prerequisite

Intermediate Java, J2EE or Java 5 EE knowledge is assumed. Be familiar with basic UML, Gang of Four Patterns, and Sun J2EE Design Patterns catalog. (or taken UML201 and WS401 or equivalent).