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Developing Rule Solutions in IBM Operational Decision Manager V8.7
Information

Length:	40.0 Hours
Ref:	WB392G
Delivery method:	ClassroomInstructor Led Online
Price:	EUR

Overview

An updated version of this course is available. For more information, click*Developing Rule Solutions in IBM Operational Decision Manager V8.8* (WB395G).

This course is also available as self-paced virtual (e-learning) course, *Developing Rule Solutions in IBM Operational Decision Manager V8.7* (ZB392G). This option does not require any travel.

This course introduces developers to IBM Operational Decision Manager V8.7. You learn the concepts and skills that you need to design, develop, and integrate a business rule solution with Operational Decision Manager.

The course begins with an overview of Operational Decision Manager, which is composed of two main environments: Decision Server for technical users and Decision Center for business users. The course outlines the collaboration between development and business teams during project development.

Through instructor-led presentations and hands-on lab exercises, you learn about the core features of Decision Server, which is the primary working environment for developers. You design a business rule application, and work with the object models that are required to author and execute rule artifacts. You gain experience with rule deployment and execution within various types of client applications. You work extensively with Rule Execution Server and learn how you can integrate decision services within an enterprise environment.

In addition, you become familiar with rule authoring so that you can support business users to set up and customize the rule authoring and validation environments. You also learn how to use Operational Decision Manager features to support decision governance.

The lab environment for this course uses Windows Server 2008 R2 Standard Edition.

For information about other related courses, visit the IBM Training website:
<http://www.ibm.com/training>

Public

This intermediate course is designed for application developers.

Prerequisites

You should have:

- Experience with the Java programming language and object-oriented concepts
- Experience with Java Platform, Standard Edition (Java SE)
- Knowledge of Java Platform, Enterprise Edition (Java EE)
- Basic knowledge of Extensible Markup Language (XML)

Objective

- Describe the benefits of implementing a decision management solution with Operational Decision Manager
- Identify the key user roles that are involved in designing and developing a decision management solution, and the tasks that are associated with each role
- Describe the development process of building a business rule application and the collaboration between business and development teams
- Set up and customize the business object model (BOM) and vocabulary for rule authoring
- Implement the execution object model (XOM) that enables rule execution
- Orchestrate rule execution through ruleflows
- Author rule artifacts to implement business policies
- Debug business rule applications to ensure that the implemented business logic is error-free
- Set up and customize the testing and simulation environment for business users
- Package and deploy rulesets to testing and production environments
- Integrate decision services for managed execution within an enterprise environment
- Build client applications to invoke ruleset execution
- Test, monitor, and audit execution of decision services
- Work with Operational Decision Manager features that support decision governance, including the decision governance framework for decision services

Topics

- Course introduction
- Introducing IBM Operational Decision Manager V8.7
- Exercise: Operational Decision Manager in action
- Getting started with business rule application development
- Exercise: Setting up rule projects
- Programming with business rules
- Developing object models
- Exercise: Working with the BOM

- Exercise: Refactoring
- Orchestrating ruleset execution
- Exercise: Working with ruleflows
- Authoring rules
- Exercise: Exploring action rules
- Exercise: Authoring action rules
- Exercise: Authoring decision tables and decision trees
- Customizing rule vocabulary with categories and domains
- Exercise: Working with static domains
- Exercise: Working with dynamic domains
- Queries and ruleset extraction
- Exercise: Queries and ruleset extraction
- Debugging rules
- Exercise: Executing rules locally
- Exercise: Debugging a ruleset
- Enabling tests and simulations
- Exercise: Enabling tests and simulations
- Managing deployment
- Exercise: Managing deployment
- Executing rules with Rule Execution Server
- Exercise: Exploring the Rule Execution Server console
- Exercise: Executing rules with Rule Execution Server in Java SE
- Exercise: Executing rules with Rule Execution Server in Java EE
- Exercise: Executing rules as a hosted transparent decision service (HTDS)
- Auditing and monitoring ruleset execution
- Exercise: Auditing ruleset execution through Decision Warehouse
- Working with the REST API
- Exercise: Working with the REST API
- Introducing decision governance
- Exercise: Working with decision services
- Course summary