Programming with InfoSphere MDM Collaborative Edition V10.1

Information

Length:	32.0 Hours
__Ref:	ZZ540G
Delivery method:	Classroom
Price:	EUR

Overview

This introductory course, Programming with IBM InfoSphere MDM Collaborative Edition V10.1, is a must for those wanting to learn how to setup their environment and begin programming with MDM CE. Using IBM's Implementation Methodology Approach (use cases), the developer will have first hand experience building a solution that will incorporate the functionality of the MDM CE product. This course will provide the developer with an initial understanding of the MDM CE Object Data Model and migrate towards programming a solution and finally understand the Best Practices for programming with MDM CE product.

Public

This advanced course caters to Developers, Solution architects, Technical architects, and Technical Specialist.

Prerequisits

You should have completed:

- *Using InfoSphere MDM Collaborative Edition V10.1 (ZZ520)***or** previous IBM InfoSphere MDM Server for PIM V9.0 courses

You should have:

- Familiarity with eclipse based Integrated Development Environment +2 years Java programming experience

Objective

- Setting up Development Environment
- Invoking Services using a Java Client against the MDM CE
- Deploying Java Extensions to the MDM CE
- Create a new Java Client invoking MDM CE services
- Understand the MDM CE Extension points (Value Rule, Validation Rule, Enumeration Rule, Pre and Post Processing and Post Save Rule)

- Understand and create a new Value Rule
- Understand and create a new Validation Rule
- Understand and create a new Preprocessing Rule
- Understand and create a new Import and Export Rules
- Understand WQL Query Language
- Understand programming Search
- Understand programming Workflow rules
- Understand Best Practices around development with MDM CE

Topics

Chapter 1. Introduction to MCMCE

- MDMCE Overview
- MDMCE Architecture Overview
- Introduction of Documentation e.g. Information Center Java API Docs,Scripting References
- Introduction to MDM CE Object Data Model
- Exercise: MDM CE Object Data Model (Large Consumer Electronics Retailer)

Chapter 2. Introduction to MDMCE Programming languages

- Overview of MDM CE's Java API
- Exception Handling
- Overview of MDM CE's Scripting Language
- Manipulating Objects
- Exercise: Installing the Workbench
- Exercise: Running code from the DocStore
- Exercise: Using a Jar to deploy custom code
- Exercise: Custom Log4J messages

Chapter 3. MDMCE Programming Exercises (Use Case)

- Understanding the Extension Points (Value Rule, Validation Rule, Enumeration Rule, Pre and Post Processing, Post Save)
- Exercise: Creating a Value Rule
- Exercise: Creating a Validation Rule
- Exercise: Creating a Preprocessing Rule
- Imports
- Exercise: Import Suppliers
- Exports
- Exercise: Export for E-commerce Downstream system
- WQL Query Language

- Exercise: WQL - Export HTML output
- Search
- Workflows
- Exercise: Workflow - New Product Introduction

Chapter 4. Best Practices

- Requirements and restrictions for using Java API
- Best practices of using Java API (Transaction management, Error handling, Logging, Testing etc)
- common.properties setting

AGENDA:

Day 1

- Chapter 1: Introduction to MDM CE
- Unit 1: MDM CE Overview
- Unit 2: MDM CE Architecture Overview
- Unit 3: Introduction to MDM CE Object Model
- Unit 4: VMware Set-up
- Unit 5: Use Case Scenario
- Unit 6: MDM CE Use Case - Object Model exercise

Day 2

- Chapter 2: MDM CE Programming Languages
- Unit 1: Overview of MDM CE and Java API
- Unit 2: Exception Handling
- Unit 3: Overview of MDM CE Scripting Language
- Unit 4: Configuring Rational Software Architect (RSA) IDE
- Unit 5: Test code and Deployment Strategy
- Unit 6: MDM CE Java API - Basic Object Manipulation
- Chapter 3: MDM CE Programming Exercises
- Unit 1: Basic extension point

Day 3

- Chapter 3: MDM CE Programming Exercises
- Unit 2: Import
- Unit 3: Export
- Unit 4: WQL Language

Day 4

- Chapter 3: MDM CE Programming Exercises continued ...
- Unit 5: Workflow
- Chapter 4: Best Practices