Oracle BPM 12c: Advanced Implementation Ed 1

Duration: 5 Days

What you will learn

This Oracle BPM 12c: Advanced Implementation Ed 1 training teaches you how to create more complex process models to meet your business needs through using different types of events, including message, signal and timer events. Expert Oracle University instructors will teach you how to manage synchronous and asynchronous communication between processes and subprocesses, peer processes and other services.

Learn To:

Write scripts using XPath, XSLT and Groovy.
Use the debugger to follow the route of a token through the process.
Understand exception handling, including the use of event subprocesses and "skip" and "back" actions.
Customize the UI with or without ADF.
Use the human workflow and BPM APIs and advanced web form rules.

Benefits to You

If you're a process developer, you'll walk away from this course with the knowledge and skills to implement a BPM process model using advanced features of OBPM. It builds on the techniques introduced in the course Oracle BPM 12c: Essentials and uses the same case study, a loan application, for many of its practices.

Audience
Business Analysts
Developer

Course Objectives
Use the Process Composer interface to create dynamic web forms that use web form rules

Create complex expressions for data mapping using XPath, XSLT, and Groovy, and determine which scripting language is best suited to a particular requirement

Create and test complex business rules that use decision tables and verbal rules

Use a REST service in the process

Define complex approval flows using the SOA human workflow editor and business rules

Send and receive messages of various types to/from another process, subprocess, or peer process

Use an event subprocess to handle errors at the process level

Use skip and back to enable the token to return to a parent process at a particular point after an error has been caught

Use a Notification activity to send an email from a process

Create an ADF task flow for more complex user interaction with human tasks

Customize the BPM Workspace with new logo, title, and skin.

Use the human workflow API to list current active instances

Use the Debugger to track the path of the token through the process

Course Topics

Review of Oracle BPM Architecture and Tools
Discussing Process Composer VS Studio
About BPM 12c QuickStart
About Process Debugger
Deployment and Testing

Data in a BPM Process
Discussing Process and Project Data Objects
About Business Parameters
Describing Data Associations and Mapping
About XPath and Simple Expressions
Discussing XSLT
About Groovy scripting

Business Rules
About Facts and Fact Types
About Value Sets
Discussing General Rules, Verbal Rules, and Decision Tables
Explaining Decision Functions
About Testing and Test Suites
Explaining Forward Chaining Inference

Human Workflow
Overview of Human Workflow
Discussing Stages and Participants
Discussing Participant Lists
Using Expressions to build participant lists
Using Business rules to build participant lists
About Task options and task properties

Implementing ServiceTasks
Overview of Services and References
Overview of Service Adapters
Creating and Using a File Adapter
Creating and Using a Database Adapter
Using a Mediator and transformation to match data types

Overview of Events
Overview of events
More on Timer events
More on Signal events
Discussing the exclusive XOR Event Gateway

Controlling and Organizing the Process Flow
Overview of Subprocesses
About the embedded subprocess
About the reusable subprocess
About the event subprocess
About Interprocess communication
Setting up an interprocess communication using Message events
Interrupting the main process

Handling Exceptions in the BPM Process
Overview of Exception handling
About System events and Business events
Handling errors for an activity and a subprocess
Handling errors at the process level
Discussing Error events
Error handling in a reusable subprocess
Error handling in a called peer process
Error handling using an event subprocess and skip and back

User Interface Customization overview
Customizing UI for an individual task
Using ADF
Using Web forms
Discussing pros and cons of different approaches

An Introduction to using ADF to Developing the User Interface
High-level Overview of ADF
About Oracle ADF Task forms
Using ADF Task Flow

Building Advanced Web Forms
Overview of Web Forms
About Advanced Web form rules
Using REST service to dynamically populate a field
About Web form rule debugging

Customizing the BPM Workspace
Customizing the Default BPM Workspace
Creating a Custom Workspace Using ADF
Customizing BPM workspace using Non-ADF Approach
Building functionality using Human workflow and BPM APIs