Oracle Fusion Middleware 11g: Build Applications with ADF II

Duration: 3 Days

What you will learn

This course is aimed at web developers who need to apply more advanced techniques and comprehensive functionality to their applications using Oracle ADF. The course covers topics that are beyond the scope of Oracle Fusion Middleware 11g: Build Applications with ADF I, but this second-level ADF course assumes that participants are already familiar with the 11g techniques covered by the first course.

The course takes a practical approach to development, with labs that handle events, ADF BC service interfaces, the use of skins, and the reuse of components. Participants use Oracle JDeveloper 11g Release 1 Patch Set 1 throughout.
Learn To:
Apply company standards to the data model
Provide Lists of Values (LOV)
Display dynamically changing data
Use skins to control the look-and-feel
Integrate ADF with SOA and WebCenter

Audience
Developer
J2EE Developer
Java Developer
Java EE Developer

Prerequisites

Suggested Prerequisites
Oracle Fusion Middleware 11g: Build Applications with ADF I

Course Objectives
Extend Business Components to support company standards
Provide validation, calculations and LOVs
Dissect and employ essential databinding components
Design application components for reuse
Leverage Expression Language, Managed Beans and Java Server Pages
Enhance an application with Active Data Service and ADF visualization components
Customize the look-and-feel of an application by using skins
Integrate applications with SOA and Web Center

Course Topics

Explore the Project Structure and Core File Architecture
Defining File Structure of a Project
Examining Metadata Structure

Understand about Page Definition Files
Defining ADF Data Control and Data Binding Files
Exploring Connections
Exploring ADF Faces and Web Configuration files

Extend the ADF Business Components Framework
Examining general considerations when using ADF Business Components
Understanding Framework Classes and Framework Hierarchy
About PL/SQL in Business Components
DML and Database Views
DB Constraints, Compositions and Associations
Transactions with Compositions and Associations
Trigger assigned PK
Many-to Many relationships and Auditing

Use ADF Business Components for Validation, Calculations and List of Values
LOV View Objects
List Data Source
View Accessors
Transient Attribute
FK, Compare and Script Validations
Groovy code
View Criterias
Registering Business Rules

Use Inheritance in the Business Domain Layer
Implementing Inheritance
Domain Layer
Discriminators
Supertype/Subtype
Understanding Polymorphic Entity Usage
Creating Polymorphic View Rows
About Dynamic Rendering

ADF as part of a Service Oriented Architecture
BPEL
SCA
Human Work Flow
B2B Adaptor
Service Data Objects
Mediator Service
WSDL

Implement Data Binding Concepts
JSR-227 Data Controls and Bindings
Understanding ADF Model
Method, Accessor and Variable Iterators
Value and Action Bindings
DataBindings.cpx file
Synchronization
Data Control
Named Bind Variables

Practical Data Binding in Action
JSF & Data Model
ADFm Life Cycle
Custom Controllers
Customizing ADF Page Lifecycle
Custom Listeners
Conditional Values
Google-Style Query

Work with Managed Beans and JavaServer Faces
Expression Language
Understanding JSF Architecture and Life Cycle
About Component Model and Navigation Model
Managed Properties
JSF Value Binding
Backing Beans
Context Objects

ADF Faces Advanced Features
JSR-127 JSF Components
AJAX & Partial Page Rendering
PRP Attributes: partialSubmit, autoSubmit, partialTriggers
Runtime Layout
Page-Level Actions
Printable pages
Boolean Checkbox
Graphs and Charts

Integrate with WebCenter
Runtime Customization
Content Management
Portlets
WebCenter Sevices
Composer
MDS
WebCenter Spaces

Customize the Application Look and Feel with Skins
Using CSS
Skinning architecture
Skin Configuration
Skin Selectors
Skin Development by example
Instance-specific component skins
Skin inheritance