

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 Developers
- Java EE Developers

Related Training

Required 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 Services
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