

Oracle Application Development Framework (ADF)Online Training

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Pre-requisite

JSF, JSP, JDeveloper

Course Content

I. Introduction to Oracle ADF 11g

- ❖ What is Oracle ADF?
- ❖ MVC architecture
- ❖ Benefits of ADF
- ❖ ADF architecture
- ❖ JDeveloper tools
- ❖ Introduction to JSF Servlet and JSP

II. Entity Objects

- ❖ Introduction to Entity Objects
- ❖ Creating a Single Entity Object (and Default VO and AM)
- ❖ The Artifacts
- ❖ Creating a View Object
- ❖ Creating an Application Module
- ❖ Entity Objects, View Objects, and Application Modules
- ❖ Creating Multiple Entity Objects at Once
- ❖ The Business Component Diagram
- ❖ The ADF Model Tester
- ❖ Entity Object Data Types
- ❖ Entity Object Default Values
- ❖ Updating and Refreshing Attributes
- ❖ Refreshing on Insert and Update
- ❖ More Attribute Properties
- ❖ UI Hints

- ❖ Entity Associations
- ❖ Creating Entity Associations
- ❖ Composition Entities
- ❖ Creating Database Tables from Entity Objects
- ❖ Synchronizing EOs with the Table Structure
- ❖ Refactoring Objects
- ❖ Programming Entity Objects (Optional Advanced Topic)

III. Entity Object Validation

- ❖ How entity object validation works
- ❖ Creating validations
- ❖ Compare validations
- ❖ Testing validations
- ❖ Dynamic error messages
- ❖ Key exists validator
- ❖ List validator
- ❖ Length validator
- ❖ Regular expression validator
- ❖ Range validator
- ❖ Entity validations
- ❖ Method validator
- ❖ Conditional validation

IV. View Objects

- ❖ Overview of View Objects
- ❖ View Object Class Diagram
- ❖ View Object Instances
- ❖ Adding VOs to the App Module

- ❖ Creating a Read-Only View Object
- ❖ Static View Objects
- ❖ View Object Hints
- ❖ LOVs and LOV Hints
- ❖ View Links
- ❖ Testing VOs with ADF Model Tester
- ❖ Cascading VO Instances
- ❖ Using VOs in JSF
- ❖ VOs and Bind Variables
- ❖ ADF Parameter Forms
- ❖ View Criterias

V. Understanding Bindings

- ❖ What are Bindings?
- ❖ Adding Bindings
- ❖ The Data Controls Window
- ❖ Using Bindings with ADF Faces Components
- ❖ Binding Types
- ❖ Binding and Rebinding Tables
- ❖ Forms and Bindings
- ❖ Viewing Attribute Bindings
- ❖ Action Bindings
- ❖ Commit and Rollback Bindings

VI. ADF Face Components

- ❖ ADF Faces Form Components
- ❖ InputText and OutputText Components
- ❖ Autosubmit and PPR
- ❖ The Rich Text Editor
- ❖ Expression Language (EL)

- ❖ Converting Input and Output
- ❖ Client-Side Validation
- ❖ Number and Range Sliders
- ❖ Checkboxes
- ❖ Listboxes
- ❖ Selection components
- ❖ Single-Selection Components
- ❖ Populating SelectItems with Managed Beans
- ❖ Multiple Selection
- ❖ SelectManyShuttle and SelectOrderShuttle

VII. Tasks Flows

- ❖ Introduction to taskflows
- ❖ Bounded Vs. Unbounded Task Flows
- ❖ Activities
- ❖ The adfc-config.xml file
- ❖ Creating an Unbounded Task Flow
- ❖ Editing a Task Flow
- ❖ View Activities
- ❖ Adding a JSF Page to a Task Flow
- ❖ Bookmarking View Activities
- ❖ Control Flow Cases and Navigation
- ❖ Wild Cards
- ❖ Working with Managed Beans
- ❖ Method Call Activities
- ❖ Built-In ADF Operations
- ❖ Router Activities
- ❖ URL View Activities
- ❖ Exception Handling

VIII. Bounded Task Flows

- ❖ Introduction to Bounded Task Flows
- ❖ The Default Activity
- ❖ Task Flow Call Activities
- ❖ Task Flow Reentry Behavior
- ❖ Task Flow Return Activity
- ❖ Declarative Transaction Handling
- ❖ Working with Save Points
- ❖ Checking for Dirty Data
- ❖ Passing Parameters to a Bounded Task Flow
- ❖ Launching Bounded Task Flows in a New Window
- ❖ Page Fragments
- ❖ ADF Regions – Static and Dynamic
- ❖ Region Navigation Listener

IX. Popup

- ❖ Popup Types
- ❖ Viewing Popups in Design Mode
- ❖ Launching Simple Popup
- ❖ Positioning and Sizing Popups
- ❖ Content Delivery
- ❖ Dialogs
- ❖ Dialog Listeners
- ❖ Accessing Operation Bindings
- ❖ Overriding Button Labels
- ❖ Adding Custom Buttons
- ❖ Cancelling Events
- ❖ Panel Window Popups
- ❖ Context Menu Popups
- ❖ Invoking Popups from JavaScript

X. Navigation

- ❖ Menu Bars, Menus, and Menu Items
- ❖ Nesting Menus
- ❖ Tool Bars
- ❖ Tool Boxes
- ❖ Menu Models
- ❖ Adding Navigation to Page Templates
- ❖ Navigation Panes
- ❖ Creating Pages from a Page Template
- ❖ Bread Crumbs
- ❖ Trains

XI. Web Services

- ❖ What is a Web Service?
- ❖ SOAP, WSDL, and UDDI
- ❖ Producing a Web Service from an Application Module
- ❖ Consuming Web Services
- ❖ The Web Service Data Control
- ❖ Creating a Web Service Proxy
- ❖ Securing a Web Service

XII. Security

- ❖ ADF Security Levels
- ❖ ADF Security Flow
- ❖ Setting ADF Security from JDeveloper
- ❖ ADF Security Artifacts
- ❖ Public Vs. Protected Pages

- ❖ Application Roles
- ❖ Users and Enterprise Roles
- ❖ Explicit and Implicit Authentication
- ❖ Login Forms
- ❖ The ADF Authentication Servlet

XIII. Deployment

- ❖ What is Deployment?
 - ❖ Deployment Steps
 - ❖ Installing Runtime JARs
 - ❖ Creating the Application Server Connection
 - ❖ Deployment Profiles
 - ❖ Deploying Security
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