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. Entitiy 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. Entitiy 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 Tasks 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