Oracle ADF

(Application Development Framework)

Online Training

By

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Trainer and solution consultant,

**Duration**: 32 Hours

**Pre-requisite**: JSF, JSP, jDeveloper

**Course content:**

**Introduction to Oracle ADF 11g**

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

**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)

**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

**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

**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

**ADF Faces 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

**Task 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

**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

**Popups**

* 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
* PanelWindow Popups
* Context Menu Popups
* Invoking Popups from JavaScript

**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

**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

**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

**Deployment**

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