

ORACLE APPLICATION DEVELOPMENT FRAMEWORK (ADF) COURSE CONTENT

❖ **INTRODUCTION TO FUSION AND ADF:**

- Oracle ADF and JDeveloper
- Oracle Fusion Middleware
- Oracle Fusion Architecture
- ADF and MVC
- More about ADF

❖ **EXPLORING JDEVELOPER:**

- JDeveloper 11g New Features
- Building ADF Application in JDeveloper
- Configuring JDeveloper Preferences

❖ **DATABASE SCHEMA DESIGN:**

- JDeveloper 11g New Features
- Database Designing Tools in JDeveloper
- Creating Offline Objects
- Synchronize Online-Offline Database

❖ **DATA MODELING WITH ADF BUSINESS COMPONENTS:**

- Advantages of ADF BC
- ADF BC Categories
- Creating ADF Business Components
- Business Component Browser

❖ **ENTITY OBJECTS AND ASSOCIATIONS:**

- Data Persistence using Entity Objects
- Creating Entity Objects
- Modify Entity Object Default Behaviour
- Associations
- Groovy expressions
- Validation Life Cycle
- Built-in Declarative Validation Rules
- Validation Execution
- Failure Handling
- Creating Validation Rule Class

❖ **VIEW OBJECTS AND VIEW LINKS:**

- Populating Data in View Objects
- Creating View Objects
- Modify View Object Default Behavior
- View Links
- Creating View Criteria
- Creating List of Values (LOV)
- Dependent LOVs

❖ **APPLICATION MODULES:**

- Designing Application Module
- Creating Application Module
- Application Module Editor
- Testing Service Methods

❖ **PROGRAMMATICALLY MODIFYING DEFAULT BEHAVIOR:**

- Supporting Java Classes
- Modify Entity Object Behavior

- Modify View Object Behavior
- Service Methods and Application Module

❖ **INTRODUCTION TO USER INTERFACE TECHNOLOGIES:**

- User Interface – Available Technologies
- Java Server Faces
- ADF Faces

❖ **UNDERSTANDING ADF DATA BINDINGS:**

- ADF Data Model and Bindings
- Exposing Business Components as Data Controls
- JSF Expression Language
- Binding Components to Data

❖ **UNDERSTANDING ADF TASK FLOWS:**

- Characteristics of ADF Task Flow
- Creating a Task Flow
- Using ADF Task Flow Components
- Using Method Call Activities
- Creating Managed Beans

❖ **ENRICHING THE PAGE CONTENT:**

- ADF Faces Rich Client Components
- Using Facets
- Using ADF Faces Components
- UI and Translation

❖ **UNDERSTANDING LAYOUT BASICS:**

- ADF Faces Layout Components
- ADF Faces Skins
- Enabling PPR

❖ **ENSURING REUSABILITY:**

- Pros and Cons of Reusability
- Reusing Components
- Designing for Reuse
- Creating ADF Library
- What Fits your Requirements

❖ **IMPLEMENTING PAGE NAVIGATION:**

- ADF Faces Navigation Components
- Performing Navigation
- Defining Access Keys
- Using Train Components

❖ **HANDLING APPLICATION EVENTS:**

- JSF Page Life Cycle
- ADF Lifecycle Phases
- Creating Action Methods
- Value Change Events

❖ **MANAGING AND VALIDATING DATA:**

- Holding Values in Data Model
- Holding Values in Managed Beans
- Passing Values between Pages
- Validation Event Points

- ADF Binding Validation
- ADF Faces Validation

❖ **TRANSACTION MANAGEMENT:**

- Handling Transactions with ADF BC
- Transaction in ADF Task Flow
- Specifying Task Flow Transaction Start Options
- Creating Save for Later

❖ **TROUBLESHOOTING ADF APPLICATIONS:**

- Logging and Diagnostics
- Java Logging
- ADF Logging
- ADF Declarative Debugger
- UI Troubleshooting Tools
- Configuring ADF Logging

❖ **DEPLOYING ADF APPLICATIONS (WEBLOGIC):**

- Creating a WAR Profile
- Creating a EAR Profile
- Testing the Server Connectivity
- Deploying the Application

