

Oracle Fusion DBA Course Content:

1.Introduction To fusion Middleware

- Oracle Fusion Middleware
- Oracle Fusion Middleware Benefits
- Components of Oracle Fusion Architecture
- Oracle Application Development Framework (ADF)
- The Model-View-Controller Design Pattern
- Implementing MVC with the ADF Framework
- Technology Choices for Fusion Applications

2.Whats New in 11g?

- ADF 11g New Features: ADF Business Components
- ADF 11g New Features: ADF Model and Databinding
- ADF 11g New Features: ADF Controller
- ADF 11g New Features: ADF Faces
- ADF 11g New Features: Additional ADF Features
- IDE and Infrastructure
- Java, Java EE, and Web Development

3.Course Application

- Describing the Course Application Scenario
- Course Schema
- Course UI

4.Getting Started in Jdeveloper

- Creating an Application in Jdeveloper
- Creating a Project in Jdeveloper
- Creating a Database Connection in Jdeveloper

5.Understanding Business Domain Layer

- Characteristics of Entity Objects
- Using Entity Objects to Persist Data
- Creating Entity Objects
- Creating Entity Objects from Tables, Views, or Synonyms

- Synchronizing an Entity Object with Changes to Its Database Table
- Associations
- Using Entity Objects and Associations Programmatically
- Finding an Entity Object by Primary Key

6.Modifying the Default Behavior of Entity Objects

- Control Hints
- Alternate Key
- Business Events
- Overriding Base Class

7.Perform Database Interaction

- Characteristics of View Objects
- Using View Objects
- Synchronization of View Objects
- Including Reference Entities in Join View Objects
- Master-Detail Views
- Using View Objects Programmatically
- Using View Criteria
- Iterating Master-Detail Hierarchy
- Interaction Between Views and Entities
- Modifying the Default Behavior of View Objects
- Using a List of Values
- Retaining and Reusing a RowSet
- Overriding Base Class

8.Application Module

- Characteristics of an Application Module
- Creating an Application Module
- Define the Data Model for the Application Module
- Determining the Size of an Application Module
- The Role of ADF Model
- Exposing Business Components as Data Controls
- Declarative Data Binding
- ADF Model and Data Binding
- Application Module Files

- Centralizing Implementation Details
- Adding Service Methods to an Application Module
- Generating a Java Class
- Coding the Service Method
- Publishing the Service Method
- Business Components Transactions
- Accessing a Transaction
- Committing Transactions
- Customizing the Post Phase
- Customizing the Commit Phase
- Service Data Object

9.Web Services in ADF

- Business Service Interface and Business Object
- When to Build Services
- What Service Operations to Build
- Building Specialized Service Operations
- Calling the Service Interface
- Defining Business Logic
- Service Business Interface Testing

10.Advanced Techniques

- Using Inheritance
- Polymorphic View Objects
- Custom Properties
- Calling a Web Service from an ADF BC Application
- Calling a Non-Fusion Web Service
- Creating the Web Service Proxy
- Calling the Web Service Proxy

11.Validation

- Validation Options
- Using Pre-built Declarative Validation
- List Validator
- Using Groovy
- Method Validator

- Compare Validator
- Regular Expression Validator
- Key Exists
- Handling Validation Errors
- Defining Your Own Validation
- Creating Declarative Validation Rules
- Programmatic Validations

12.Troubleshooting Fusion Applications

- Troubleshooting Basics
- Diagnosing the Problem
- Requesting Help
- Logging and Diagnostics
- Java Logging
- Using ADF Diagnostics
- Turning on Diagnostics in Jdeveloper
- Using JDevelopers Profiler
- Debugging with Jdeveloper
- ADF Business Components Tester

13.Introduction to UI technology

- Using the ADF Controller
- ADF Task Flows
- Managed Beans
- Using Maps and Arrays in Managed Beans
- ADF Task Flow Components
- ADF Control Flow Rules
- Global Navigation Routers for Conditional Navigation
- Method Activities

14.Developing a Simple Page with ADF Faces

- JSF Component Model
- JSF Multiple Renderers
- Adding to JSF with ADF Faces
- Component Palette
- Context Menu

- Data Control Palette
- Model Layer Components
- Types of Bindings
- Expression Language
- Page Definition File
- Accessing Data Controls and Bindings Programmatically

15.Adding Functionality to Pages

- ADF Faces Rich Client Components
- ADF Faces Input Components
- Table and Tree and Tree Table
- Query Components
- ADF Data Visualization Components

16.Layout Techniques

- ADF Faces Layout Components
- Arranging Items in Columns or Grids
- Automatic Component Stretching
- Panel Splitter
- Panel Accordion
- Panel Tabs
- Table Menus, Toolbars, and Status Bars
- ADF Faces Skins
- Dynamic Page Layout
- Characteristics of Partial Page Rendering

17.Reusability

- Benefits of Reusability
- Using a Resource Catalog
- Creating an ADF Library
- Creating a Page Template
- Applying a Page Template to a Page
- Creating a Declarative Component
- Creating a Page Fragment
- Characteristics of Regions
- Wrapping a Task Flow as a Region

- Building a Portlet from a Task Flow

18.Navigation

- ADF Faces Navigation Components
- Buttons and Links
- Access Keys, Tooltips
- Creating Menus
- Creating Context Menus
- Breadcrumbs
- Train Component
- Parent Activity(Task Flow)

19.Event Handling

- Overview of JSF Page Life Cycle
- ADF Lifecycle Phases
- When to Refresh Binding Executables
- Using Phase Listeners
- Using Event Listeners
- Using Action Listeners
- Value Change Events
- ADF Faces Enhanced Event Handling
- Displaying a Popup Window
- Contextual Events

20.Faces Validation

- Validation Event Points
- Validation in the JSF Lifecycle
- Handling Validation Exceptions
- JavaServer Faces Validators
- ADF Binding Validation
- Using ADF Faces Validation

21.Passing Values Between UI Elements

- Holding Values in the Data Model
- Holding Values in Managed Beans
- RequestScope

- pageFlowScope
- Backing Bean scope
- View Scope
- Page Parameters
- Task Flow Parameters
- Passing Values from a Containing Page to a Regions Task Flow
- Passing Values to a Task Flow from a Task Flow Call Activity
- Returning Values to a Calling Task Flow
- Passing Parameters from a Task Flow to One of Its Pages

22.Implementing Transactional Capabilities

- Handling Transactions with ADF BC
- Default ADF Model Transactions
- Transactions in Task Flows
- Controlling Transactions in Bounded Task Flows
- Transaction Support Features of Bounded Task Flows
- Defining Declarative Commit and Rollback of Transactions
- Specifying Task Flow Transaction Start Options
- Specifying Task Flow Return Options
- Enabling Transactions on a Task Flow
- Sharing Data Controls
- Handling Transaction Exceptions
- Designating an Exception Handler Activity
- Saving for Later
- Troubleshooting the User Interface
- Security
- Resources