

Oracle ADF is an end-to-end Java EE framework that simplifies application development by providing out-of-the-box infrastructure services and a visual and declarative development experience.

## 1. Introduction to Fusion and Oracle ADF

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

## 2. Exploring JDeveloper

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

## 3. Database Schema Design

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

## 4. Data Modeling with Oracle ADF Business Components

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

## 5. Entity Objects and Associations

- Data Persistence using Entity Objects
- Creating Entity Objects
- Modify Entity Object Default Behavior
- Associations

## 6. 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

## 7. Application Modules

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

## 8. Programmatically Modifying Default Behavior

Supporting Java Classes  
Modify Entity Object Behavior  
Modify View Object Behavior  
Service Methods and Application Module•

## 9. Business Validation

Validation Life Cycle  
Built-in Declarative Validation Rules  
Validation Execution  
Failure Handling  
Groovy Support  
Creating Validation Rule Class

## 10. Introduction to User Interface Technologies

User Interface – Available Technologies  
Java Server Faces  
ADF Faces

## 11. Understanding Oracle ADF Data bindings

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

## 12. Understanding Oracle ADF Task Flows

Characteristics of Oracle ADF Task Flow  
Creating a Task Flow  
Using Oracle ADF Task Flow Components  
Using Method Call Activities  
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## 13. Enriching the Page Content

Oracle ADF Faces Rich Client Components

Using Facets

Using Oracle ADF Faces Components

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## 14. Understanding Layout Basics

Oracle ADF Faces Layout Components

Oracle ADF Faces Skins

Enabling PPR

## 15. Ensuring Reusability

Pros and Cons of Reusability

Reusing Components

Designing for Reuse

Creating Oracle ADF Library

What Fits your Requirements

## 16. Implementing Page Navigation

Oracle ADF Faces Navigation Components

Performing Navigation

Defining Access Keys

Using Train Components

## 17. Handling Application Events

JSF Page Life Cycle

Oracle ADF Lifecycle Phases

Creating Action Methods

Value Change Events

## 18. Managing and Validating Data

Holding Values in Data Model

Holding Values in Managed Beans

Passing Values between Pages

Validation Event Points

Oracle ADF Binding Validation

Oracle ADF Faces Validation

## 19. Transaction Management

Handling Transactions with Oracle ADF BC  
Transaction in Oracle ADF Task Flow  
Specifying Task Flow Transaction Start Options

## 20. Troubleshooting Oracle ADF Applications

Logging and Diagnostics  
Java Logging  
Oracle ADF Logging  
ADF Declarative Debugger  
UI Troubleshooting Tools

## 21. Deploying Oracle ADF Applications (WebLogic)

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

## 22. Java Basic

## 23. JSF Framework

## 24. Oracle BI Publisher