

# Oracle Fusion Middleware 11g: Build Applications with ADF

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## Introduction to Fusion and ADF

- Describing Fusion architecture
- Explaining how ADF fits into the Fusion architecture
- Describing the ADF technology stack (MVC)

## Getting Started with JDeveloper

- Listing JDeveloper benefits for application development
- Using the features of the JDeveloper IDE
- Defining IDE preferences
- Creating applications, projects, and connections in JDeveloper

## Building a Data Model with ADF Business Components

- Introducing ADF Business Components
- Creating Business Components from tables
- Testing the data model

## Querying and Persisting Data

- Using view objects
- Using entity objects to persist data
- Synchronizing entity objects with database table changes
- Creating associations
- Creating updateable view objects
- Creating master-detail relationships
- Refactoring

## Exposing Data

- Creating application modules
- Using master-detail view objects in application modules
- Managing Business Components transactions
- Abstracting business services with ADF Model

## Declaratively Customizing Data Services

- Internationalizing the data model

- Editing business components
- Modifying default behavior of entity objects
- Changing the locking behavior of an application module

## Programmatically Customizing Data Services

- Generating Java classes
- Programmatically modifying the behavior of entity objects
- Programmatically modifying the behavior of view objects
- Adding service methods to an application module
- Using client APIs

## Validating User Input

- Understanding validation options: Database, Data Model, or UI
- Triggering validation execution
- Handling validation errors
- Using Groovy expressions in validation
- Using programmatic validation

## Troubleshooting ADF BC Applications

- Troubleshooting the business service
- Troubleshooting the UI
- Using logging and diagnostics
- Using the JDeveloper debugger

## Understanding UI Technologies

- Describing the use of Web browsers and HTML
- Describing the function of Servlets and JSPs
- Defining JavaServer Faces
- Explaining the JSF component architecture and JSF component types
- Explaining the purpose of backing beans and managed beans
- Describing the JSF life cycle
- Explaining how ADF Faces augments the JSF life cycle