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Become a Fusion Developer with no Java

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Session Agenda

- The Fusion big picture
- Some high level concepts
- Building business services
- Building the user interface



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Fusion: The Big Picture



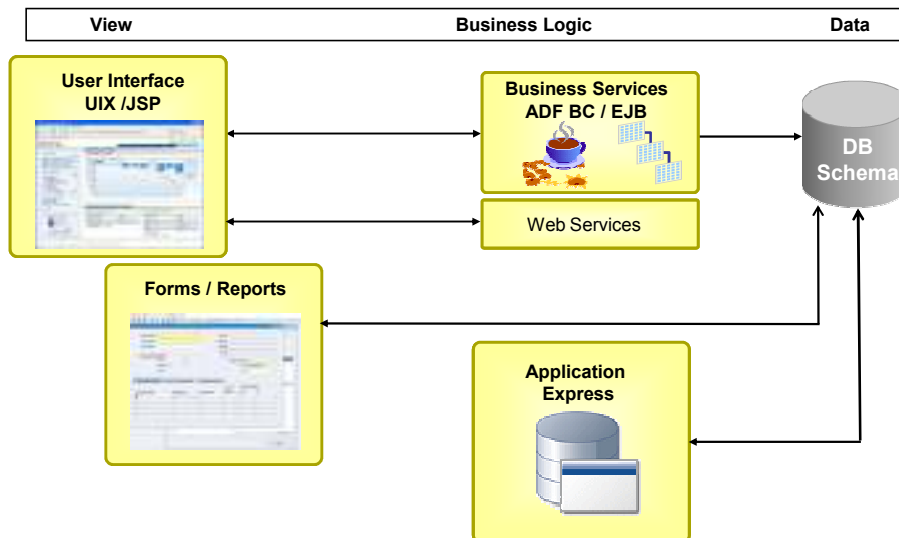
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The Three Aspects of Fusion

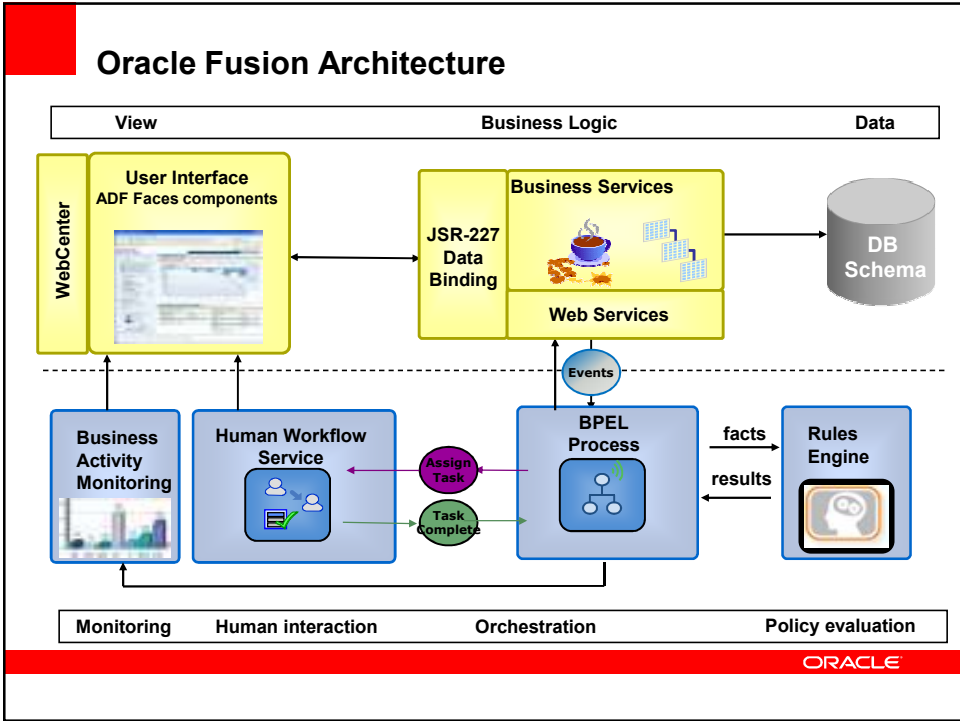
- Oracle Fusion Architecture
 - Blueprint for SOA-based enterprise solutions
- Oracle Fusion Middleware
 - Technology infrastructure for SOA applications
- Oracle Fusion Applications
 - Protect, extend, evolve through Fusion architecture

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Old School Oracle Development...



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Some High Level Concepts

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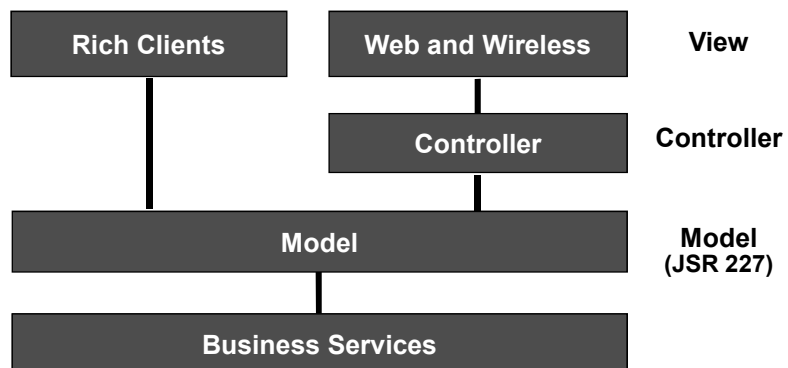
Oracle Application Development Framework (Oracle ADF)

- Increase productivity & ease-of-use
 - Visual and declarative development
 - Takes care of the “plumbing” code
 - Implements best practices
- Promote service oriented development
 - Re-usable business services
 - Composite applications development
- Standards-based
 - Choice of technology, deployment platform
- Common framework for the platform



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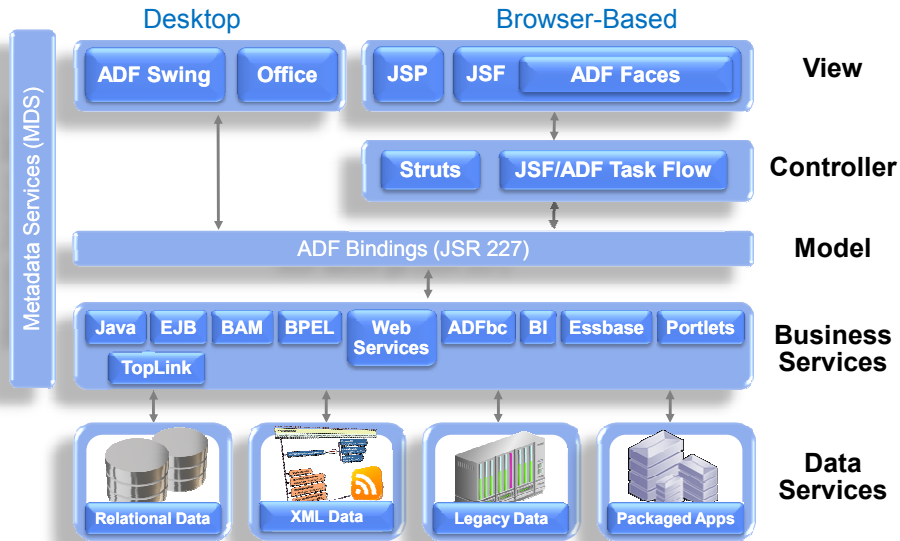
ADF Architecture Overview



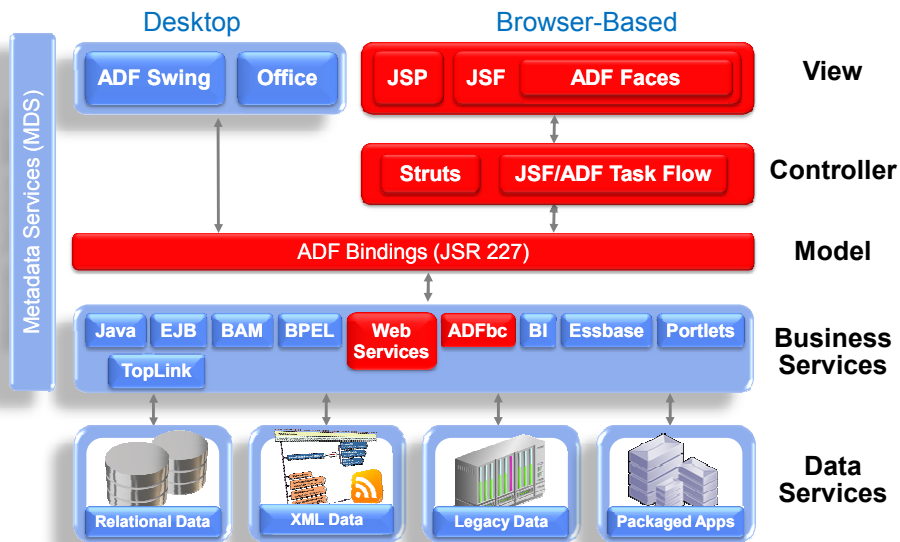
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Oracle ADF 11g R1 - Architecture

Standards-based Productivity with Choice

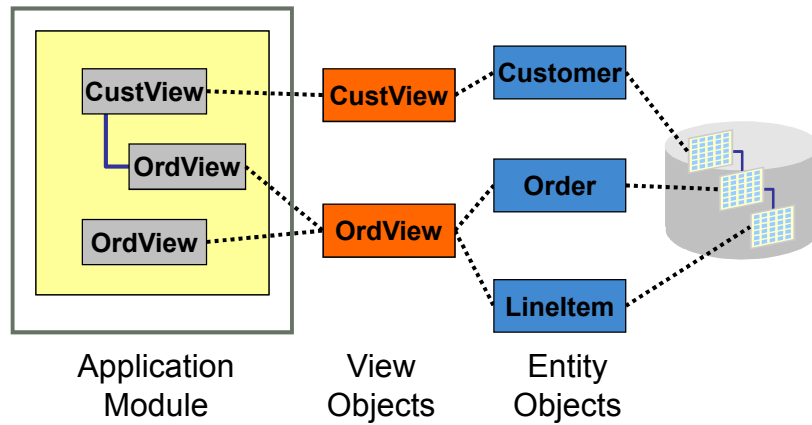


Fusion Applications Fusion Stack



Model

ADF Business Components



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View

Java Server Faces/ADF Faces Rich Client

- 130+ Ajax enabled JavaServer Faces components
- Drag-and-drop framework
- Dialog and popup framework
- Navigation menu framework
- Partial page rendering
- Active data framework
- Advanced data streaming
- Complete JavaScript API



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Controller

JSF Controller/ADFc

- Handles Page Flow
 - Promotes page reuse through abstraction
 - Increase flexibility and manageability
- Visual development with the Page Flow modeler
 - Draw the page flow
- ADFc extends JSF controller



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**Building Business
Services**



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Building Business Services

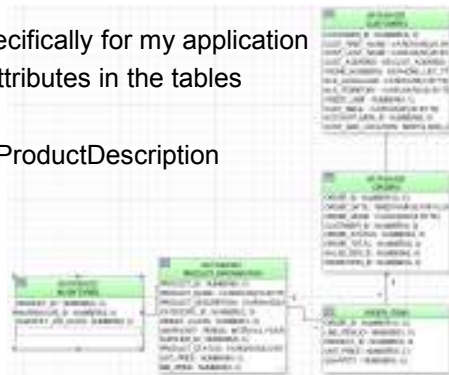
- Build business services based on database tables
- “Shape” the data model to the specifics of your application
 - Perform lookups
 - Order and filter data
- Perform business logic and data validation
- Base some fields on lists of values (LOVs)
- Define UI information in the data model
 - Labels, data format, help, etc.
- Predefine filter criteria

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Building Business Services

Services based on database tables

- What do you want to do?
 - I want my application to manipulate data in some database tables
 - I want to “shape” the data specifically for my application
 - Don’t need to access all attributes in the tables
 - Set Order By clause
 - Use ProductID to look up ProductDescription
 - Format date fields
 - Define labels for my data



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Demo 1: Building the Business Services



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Building Business Services

Business logic validation and calculated fields

- What do you want to do?
 - I want to add validation rules to raise error if attempt to
 - Input anything except “M” or “F” into gender field
 - Assign an order to a non existent customer
 - Input a non existent product id
 - Input an invalid email addresses for US customers
 - Set too high a credit limit for non US customers
 - Automatically calculate the total for a line item

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Demo 2: Adding Business Logic Validation



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Building Business Services

Lookups and list of values

- What do you want to do?
 - Define a list of value for attributes in my data model
 - Promotion Id should be a combo box of valid values
 - Define an LOV for Product Id
 - Create a static list of values for Marital Status

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Demo 3: Model Driven List of Values

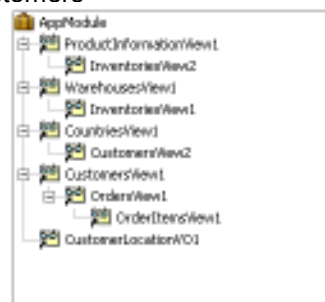


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Building Business Services

Searching and filtering

- What do you want to do?
 - Predefine search criteria for my end users
 - Create a filter for all US customers
 - Create a filter for all female customers



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**Demo 4: Pre-defined
Search Criteria**



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**Building The User
Interface**

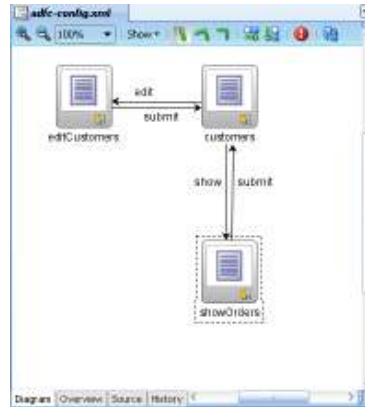


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Building The User Interface

Application flow

- What do you want to do?
 - Define how the application flows
 - Identify pages
 - Identify flow between pages



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Demo 5: Defining Application Flow



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Building The User Interface

Build an edit page

- What do you want to do?
 - Build a page on which details for single customer can be edited
 - Bind UI items to the data model
 - Check business validation logic is implemented
 - Use various UI items
 - Partial page rendering

A screenshot of a web form for editing customer information. The form contains the following fields and values:

- CustomerId: 102
- CustFirstName: Harrison
- Surname: Pacino
- MslLanguage: us
- MslTerritory: ITALY
- CustLink: (empty)
- CustEmail: Harrison.Pacino@WML.COM
- AccountMgId: 146
- DateOfBirth: 02-05-1953
- MaritalStatus: single
- Gender: M F
- IncomeLevel: 1: 170,000 - 189,999
- PhoneNumbers: +1 317 123 4111

A "Submit" button is located at the bottom of the form.

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Demo 6: Build the Edit Customer Page

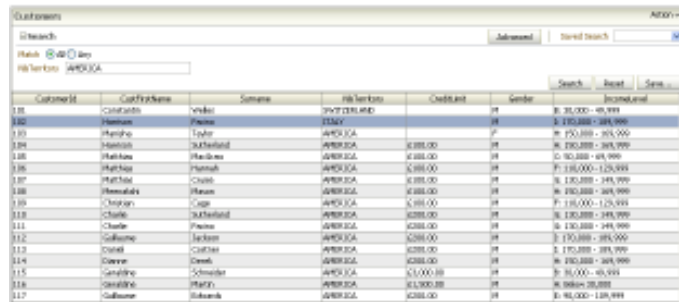


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Building The User Interface

Build a search page

- What do you want to do?
 - Build a page on which a list of all customers can be viewed
 - Bind UI items to the data model
 - Allow table of customers to be filtered using view criteria



CustomerID	CustomerName	Address	Phone	Country	PostalCode	Gender	IncomeLevel
100	Customer	Address	Phone	USA	98000	M	100,000 - 149,999
101	Customer	Address	Phone	USA	98000	F	150,000 - 199,999
102	Customer	Address	Phone	USA	98000	M	200,000 - 249,999
103	Customer	Address	Phone	USA	98000	F	250,000 - 299,999
104	Customer	Address	Phone	USA	98000	M	300,000 - 349,999
105	Customer	Address	Phone	USA	98000	F	350,000 - 399,999
106	Customer	Address	Phone	USA	98000	M	400,000 - 449,999
107	Customer	Address	Phone	USA	98000	F	450,000 - 499,999
108	Customer	Address	Phone	USA	98000	M	500,000 - 549,999
109	Customer	Address	Phone	USA	98000	F	550,000 - 599,999
110	Customer	Address	Phone	USA	98000	M	600,000 - 649,999
111	Customer	Address	Phone	USA	98000	F	650,000 - 699,999
112	Customer	Address	Phone	USA	98000	M	700,000 - 749,999
113	Customer	Address	Phone	USA	98000	F	750,000 - 799,999
114	Customer	Address	Phone	USA	98000	M	800,000 - 849,999
115	Customer	Address	Phone	USA	98000	F	850,000 - 899,999
116	Customer	Address	Phone	USA	98000	M	900,000 - 949,999
117	Customer	Address	Phone	USA	98000	F	950,000 - 999,999

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Demo 7: Build the Searchable Customers Page

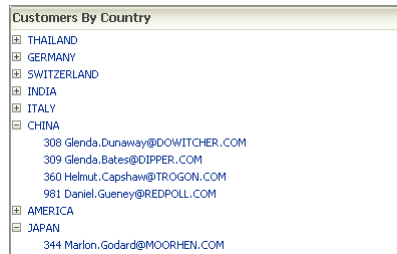


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Building The User Interface

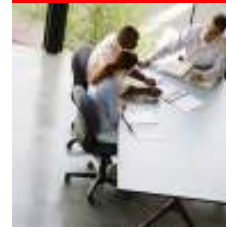
Tree of customers by country

- What do you want to do?
 - Display countries and customers in each country
 - Use a tree control
 - Customize the template



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Demo 10: Tree of Customers by Country



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Building The User Interface

Orders and Order Items page

- What do you want to do?
 - Display the orders for a selected customer and the order items within that order
 - Create a master form and detail table
 - Use tabbedPanels for layout
 - Show some visual data
 - Gauge showing stock levels
 - Graph of order totals
 - Edit Orders in a popup



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Demo 9: Orders and Order Items page



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Building The User Interface

Spatial data and drag & drop

- What do you want to do?
 - Display a map of US customer locations
 - Create a view of spatial coordinates
 - Display coordinate data on a map
 - Drag & Drop
 - Drag data from a tree to a text field

* CustomerId	102
* CustFirstName	Harrison
* Surname	Pacino
Nst.Language	us
Nst.Territory	ITALY SWITZERLAND
CreditLimit	
CustEmail	Harrison.Pacino@ANI.COM
AccountMgrId	145

- THAILAND
- GERMANY
- SWITZERLAND
- INDIA
- ITALY
- CHINA
- AMERICA
- JAPAN



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Demo 10: Spatial data and drag & drop



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Summary

- This the technology development environment of Fusion
- Focused on productivity and providing “plumbing”
 - So you focus on the business specific code
- Provides a framework for
 - Business services, validation, page layout, reuse, data visualization, drag and drop, popup framework and much more
 - Framework can be exposed, extended and augmented as required

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