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The Fusion Development Platform

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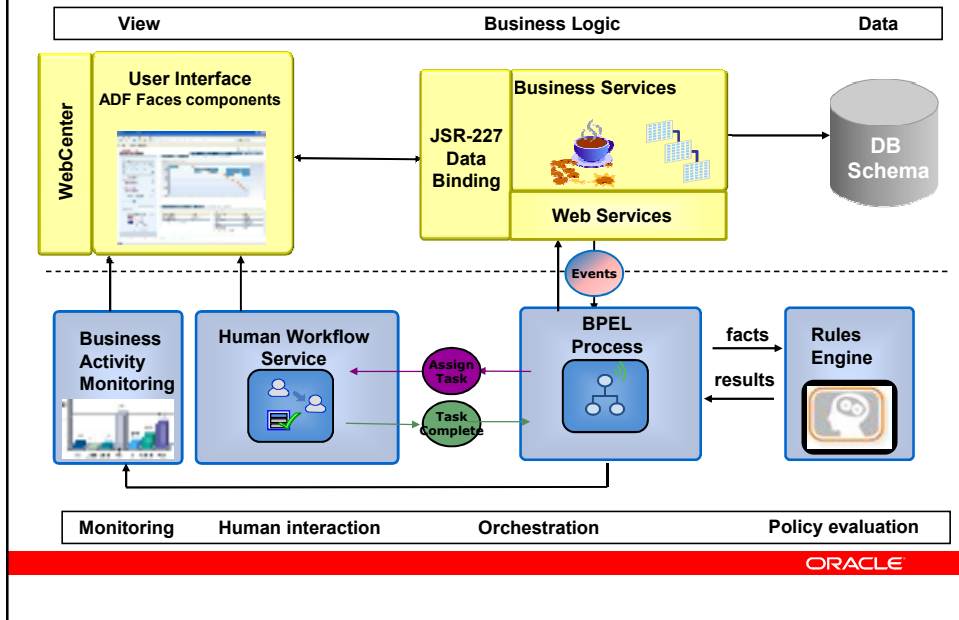
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ORACLE FUSION MIDDLEWARE



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Oracle Fusion Architecture



Oracle Application Development Framework

- End to End Java EE Framework
- Increase productivity
- Improve ease-of-use
- Promote service oriented development
- Standards-based



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Oracle SOA Suite

- Integrate and Orchestrate Systems
 - Adapters
 - Oracle ESB
 - Oracle Web Services Manager
 - Oracle BPEL PM
 - Oracle BAM
 - Oracle Business Rules

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Oracle WebCenter

- WebCenter Framework
 - Customization and context-rich capabilities for Java EE applications
 - Portlet/JSF bridge
- WebCenter Services
 - Web 2.0 services for your application

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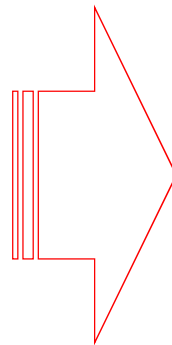
How Do We Make It Easy to Develop?

- Oracle JDeveloper
 - Development Tool
- Oracle ADF
 - Development Framework

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Enterprise IDE

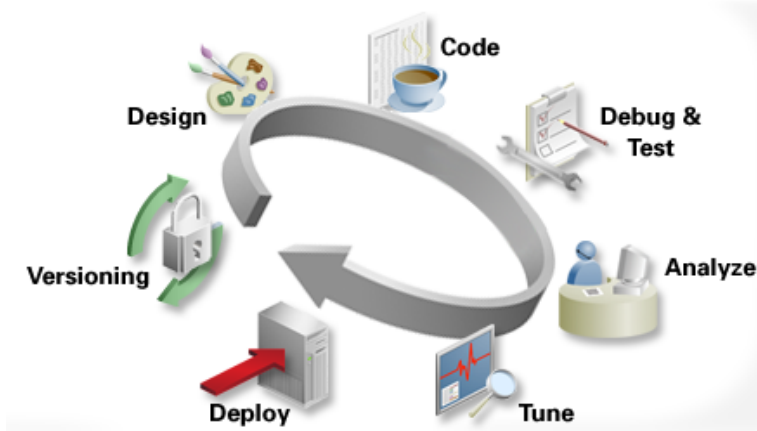
- Java EE
- Web Services
- BPEL & ESB
- BAM
- WebCenter / Portlets
- Database
- XML



JDeveloper

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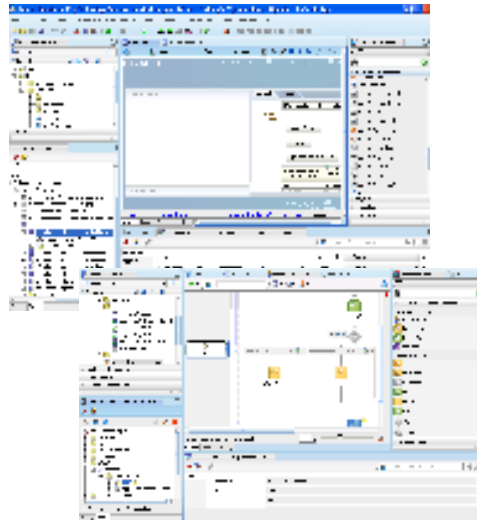
Full Lifecycle Support



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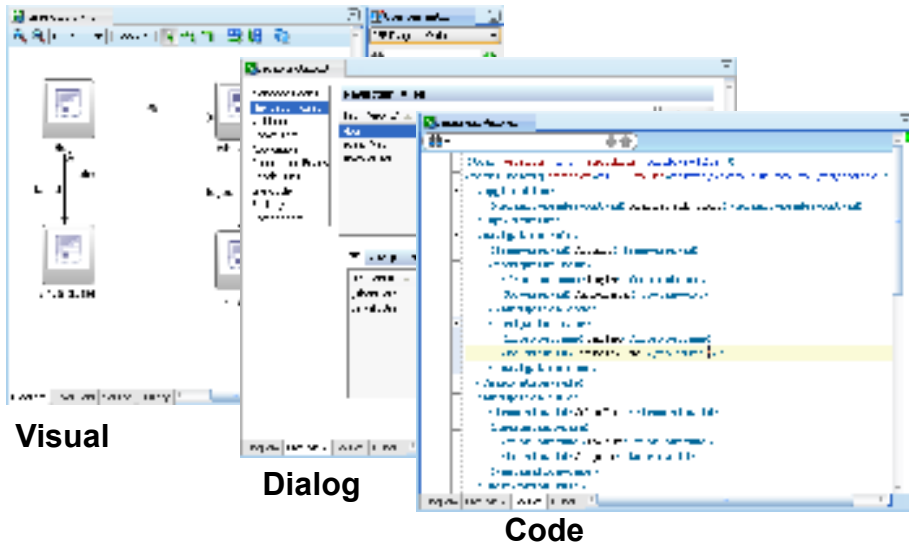
Visual and Declarative

- WYSIWYG Editors
 - JSF, JSP, HTML, Swing
- Visual Page Flows
 - JSF, Struts
- Modelers
 - DB, Class, EJB
- Visual XML Editors
 - XML Schema, XSLT, WSDL
- Process Flow
 - BPEL, ESB



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Choice of Development Styles



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Oracle Application Development Framework



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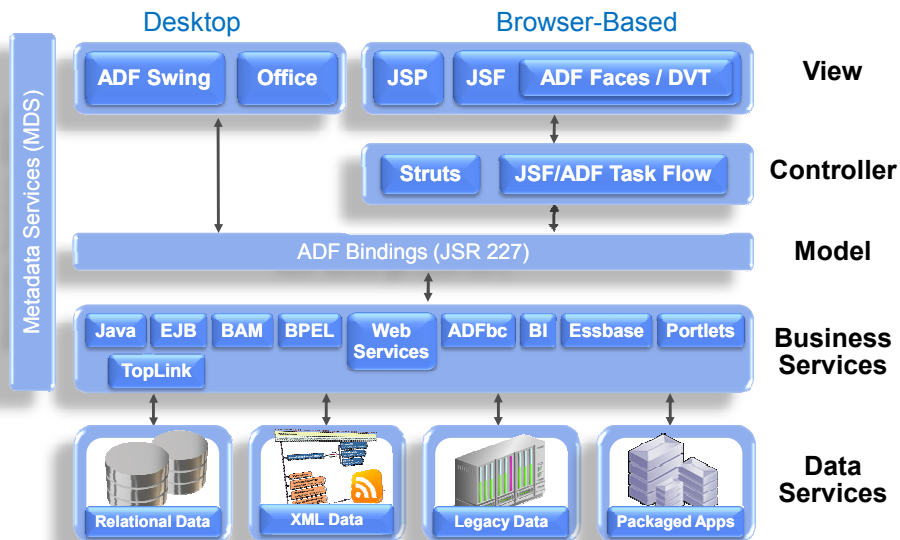
Oracle Application Development Framework (Oracle ADF)

- 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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Application Development Framework (ADF) Standards-based Productivity



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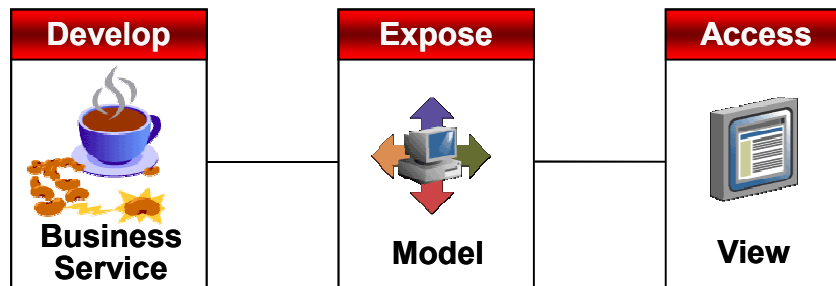
Demonstration

Oracle Fusion Application In Action

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Fusion Development Approach

SOA Development with ADF



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Develop Services Business Services Layer

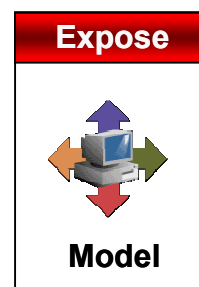
- Data access
 - O/R Mapping
 - Queries/DML
- Business logic
 - Data Validation
 - Business Logic
- Choices of implementation
 - EJB, TopLink JPA, ADF Business Components, POJO, Web Services, XML, BI, JMX, Content Repositories



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Expose Services ADF Model Layer

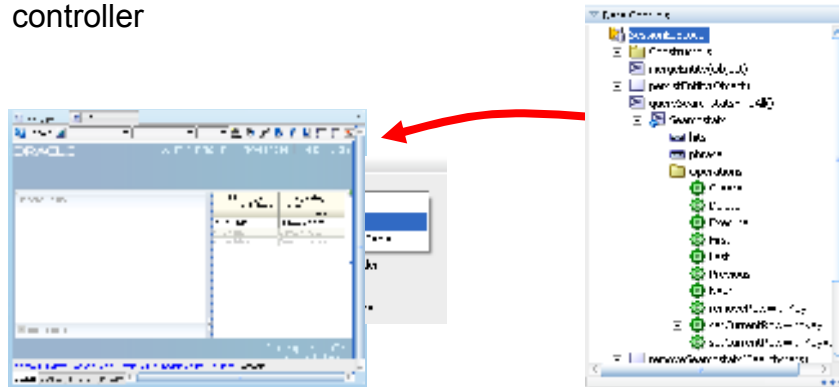
- ADF model
 - JSR-227 Data Controls
- Service oriented Interface
 - Abstract implementation from clients
 - Loose coupling between services and application
- More reusability
 - Discover and Share Services
- More productivity
 - Drag and Drop Data Binding



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ADF Data Binding

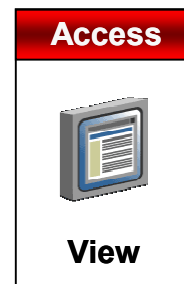
- Drag and drop business services to view and controller



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Access Services View Layer

- Choice of technology
 - JavaServer Faces (JSF)
 - Swing
 - JSP
 - JSP/Struts
- Visual layout editor
- Easy data binding



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ADF Faces Rich Client

- 150+ AJAX enabled JavaServer Faces components
- Data visualization components (Graphs and Maps)
- 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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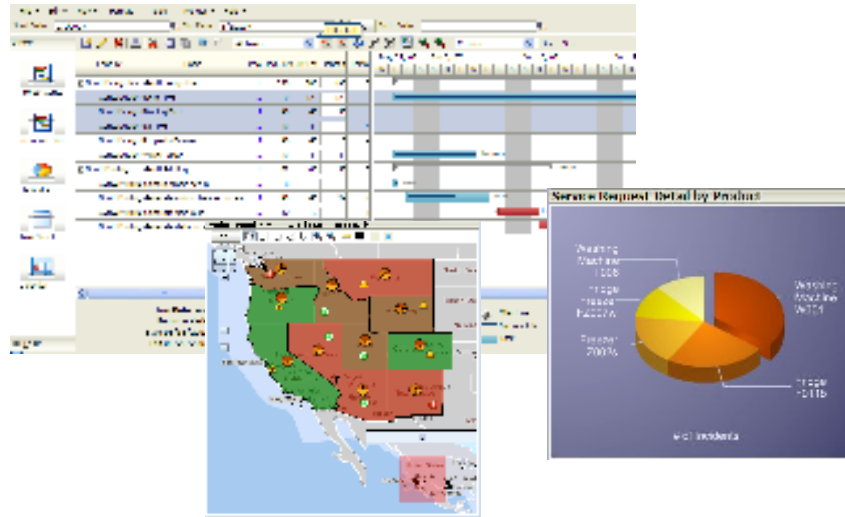
ADF Faces Rich Client Samples

The screenshot displays several ADF Faces Rich Client samples:

- Progress Bar:** A horizontal progress bar showing 0% to 100% completion.
- File Menu:** A standard file menu with options like New, Open, Save, and Quit.
- Navigator Window:** A window showing a tree view of the application structure.
- Dialog:** A dialog box with a title bar and a close button.
- Slider:** A vertical slider control with a range from -1000.0 to 1000.0.
- Partial Update Tests:** A panel with checkboxes for 'First' and 'Second' under 'Rendered Tests', and 'Update' under 'Visibility Tests'.
- Available Values:** A list of items with checkboxes: orange juice, wine, beer, coffee (checked), tea, and fizz.
- Selected Values:** A list of items with checkboxes: lemonade and milk (checked).
- Navigation:** A set of navigation buttons (back, forward, etc.).
- Data Table:** A table with columns and rows of data.

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Data Visualization Components



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Demonstration

Fusion Application Development

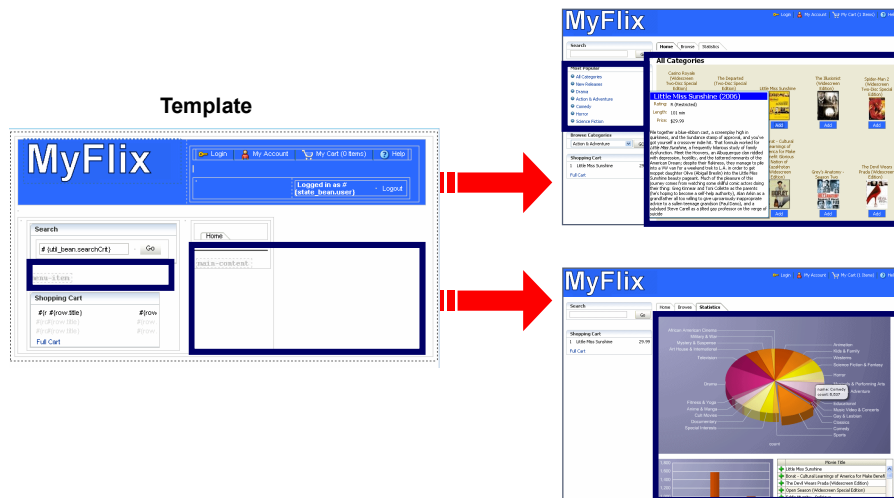
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Reusability for JSF Development

- Templating for JavaServer Faces technology
 - Define a standard page template
- Page Fragments
 - Develop reusable areas
- Page Regions
 - Construct a page from fragments
- Declarative Components
 - Bundle components together

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JSF Templates



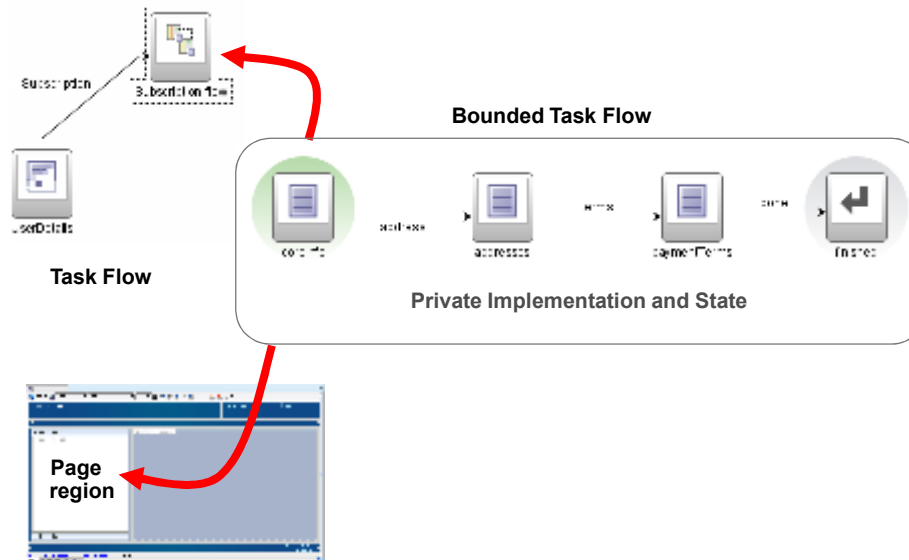
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ADF Controller - Extending JSF

- ADF Task Flows add functionality on top of the JavaServer Faces technology page flow
- Enhanced Reusability
- Out-of-the-box Advance Features
- Declarative Functionality

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Declarative Controller



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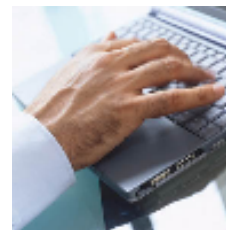
Demonstration

Reusability

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Summary

- The Tools to Fusion Development
 - JDeveloper and ADF leverage SOA
- Oracle ADF
 - Simpler Java EE development
 - SOA – ready applications
 - Rich Set of AJAX UI Components
 - Easy Access to Business Services
- Fusion Applications
 - Base development platform to create Fusion Apps.



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For More Information

- <http://oracle.com/technology/jdev>
 - Software
 - Demos
 - Tutorials
 - Discussion Forum
 - Blogs
 - More...
- **twitter** twitter.com/jdevadf
- **Google Groups** ADF enterprise methodology group
- Regional Knowledge Exchange Communities

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