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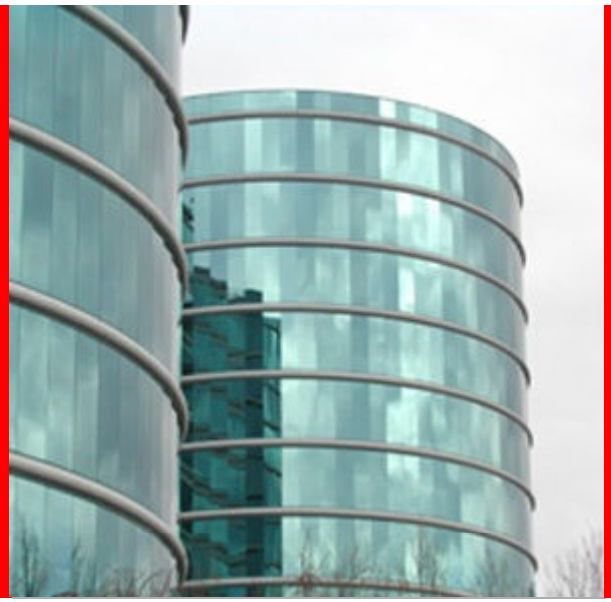


ORACLE

JDeveloper 11g: New Features Overview

Steve Muench
Consulting Product Manager
Oracle ADF Development Team

Oracle JDeveloper Themes

- Complete
  - Full development lifecycle
  - One tool for Java, Web Services, XML, DB, SOA, WebCenter
- Standard
  - Support industry standards
  - Cross platform (AS and DB)
- Productive
  - Improved coding productivity
  - Visual and declarative development
  - Oracle Application Development Framework (Oracle ADF)
- FREE

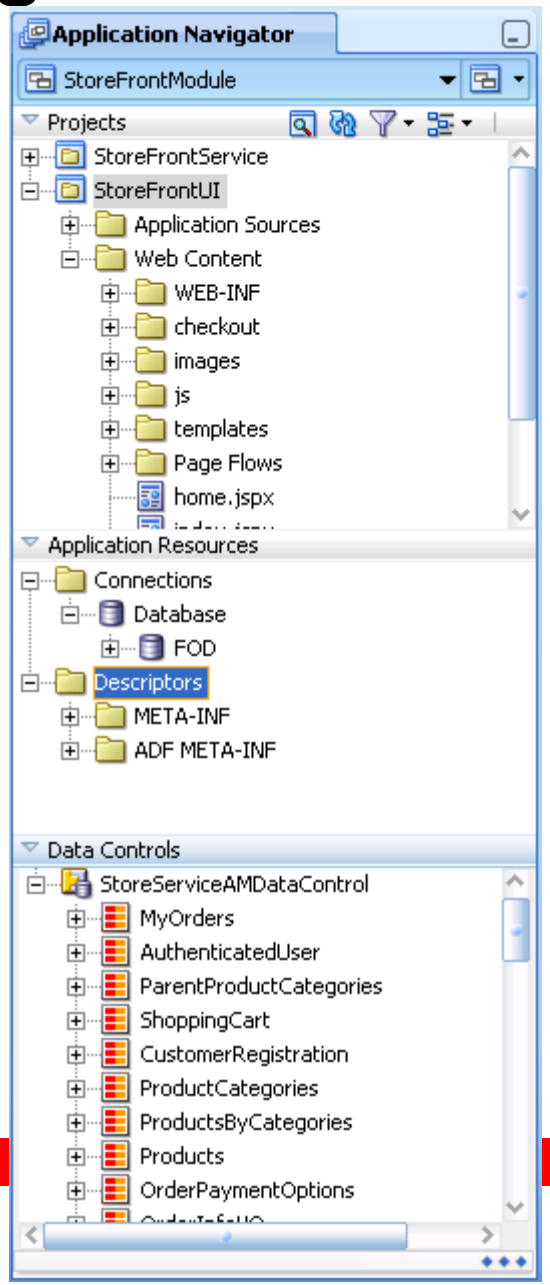
JDeveloper 11g Themes

- Simplified Design Time Experience
- Simplified Java Development
- Simplified Database Development
- Simplified Enterprise Java Development

Simplified
Design Time Experience

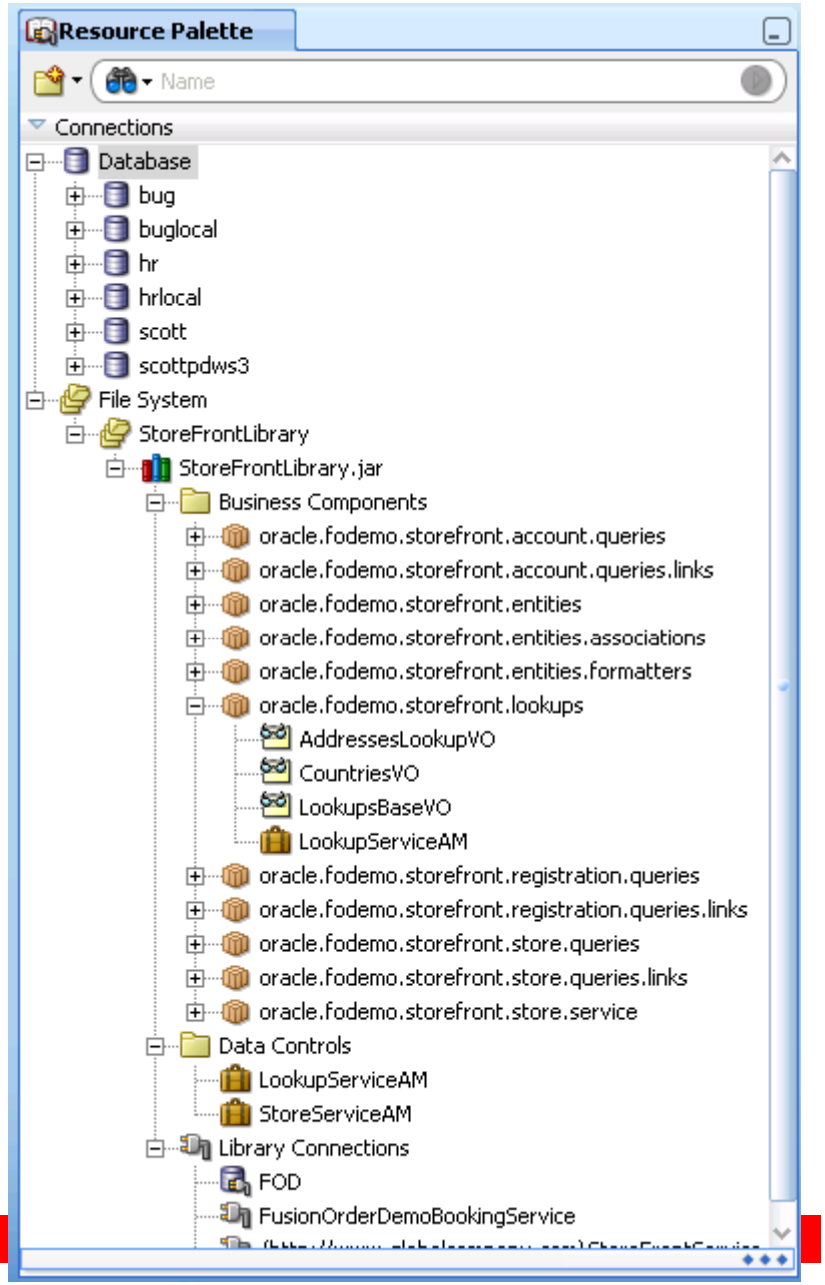
Enhanced Application Navigator

- Collapsible Panels
- Hide Less Used Panels
- Related Files Grouped Together



Resource Catalog

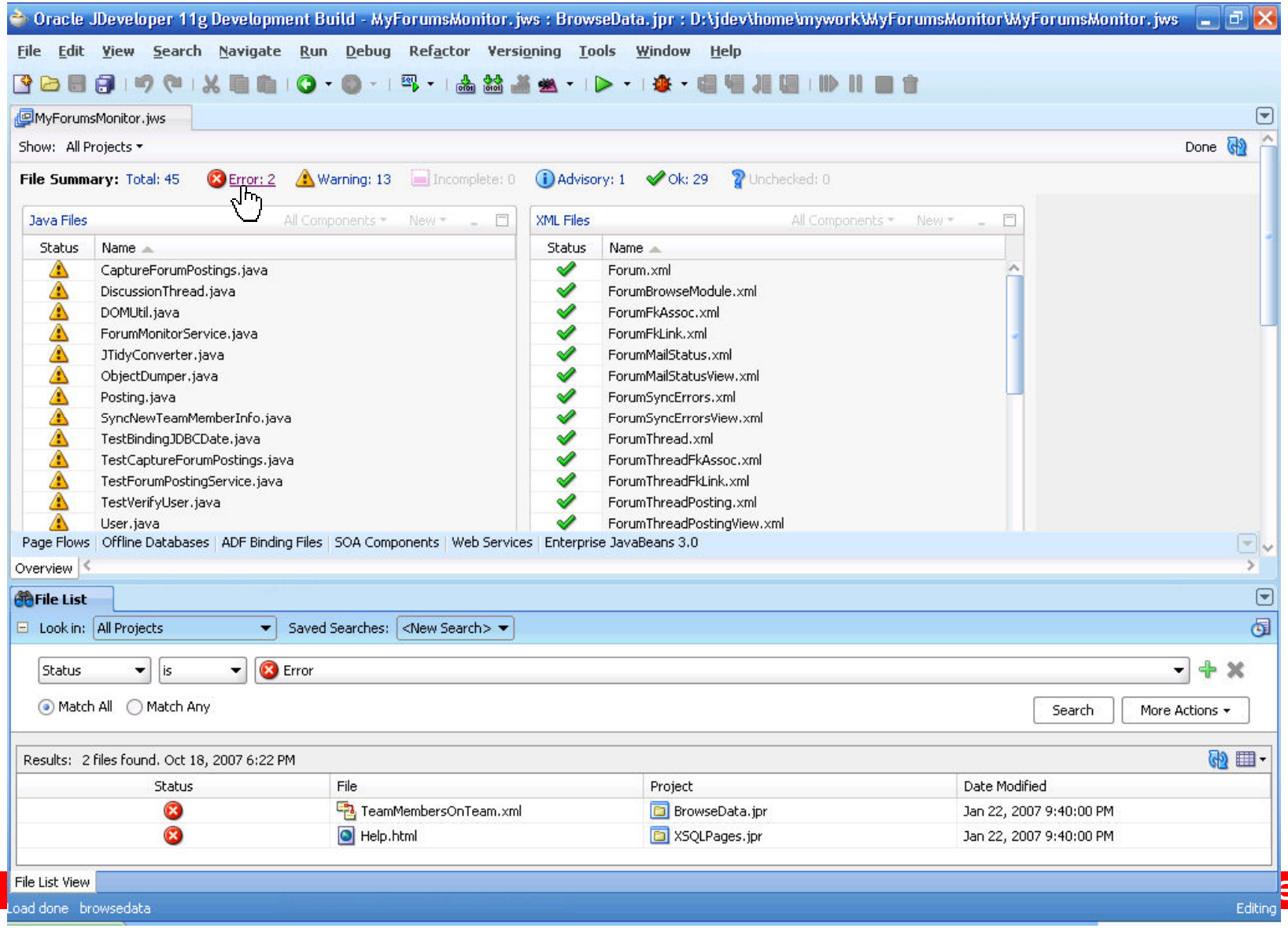
- Connect to Resource Providers
- Drag/Drop Resources
- Search Resources
  - Application server
  - Database
  - File system
  - UDDI Registry
  - URL adapter
  - WebDAV



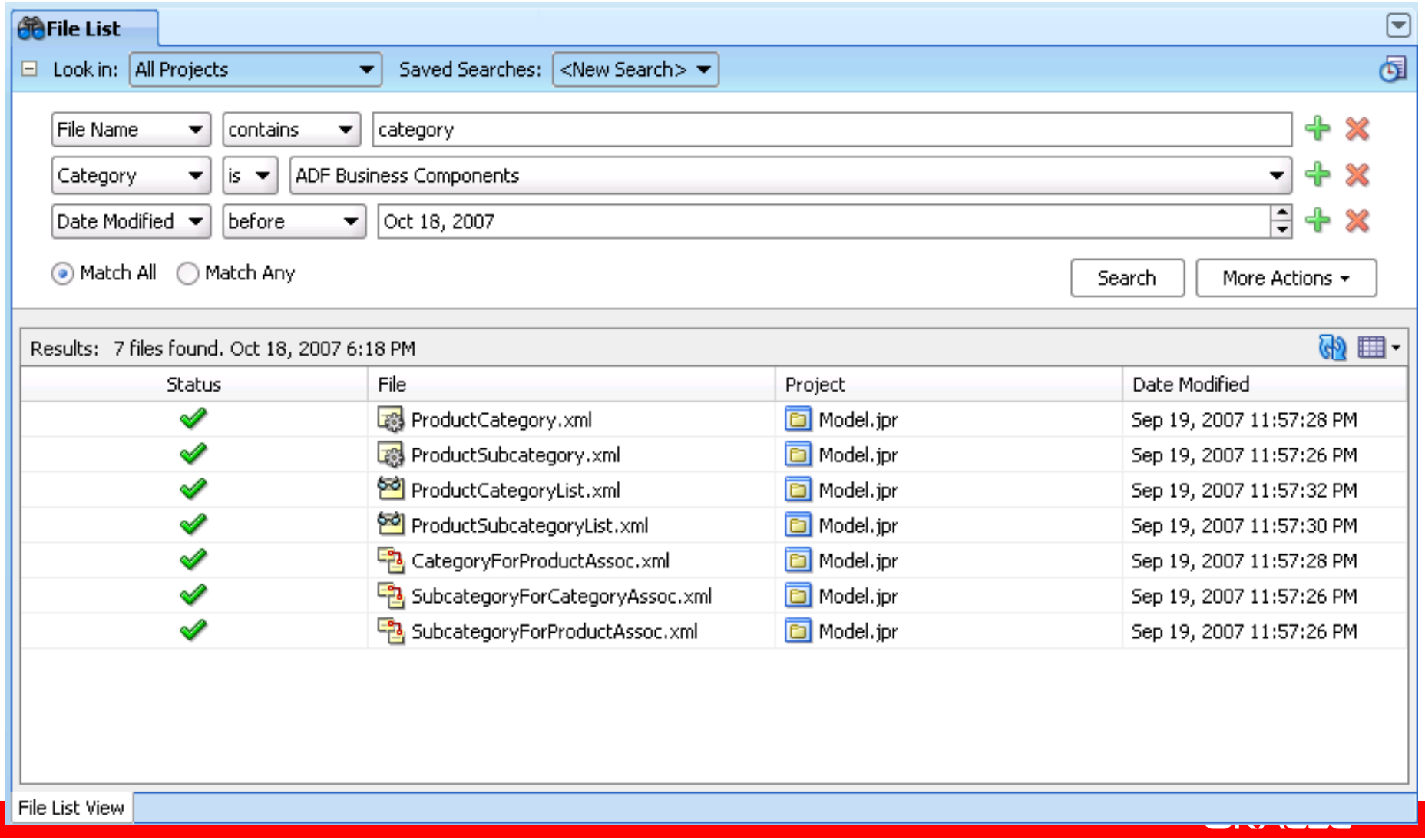
Application Overview

- Categorized List of All Application Files
- Easily See Where Application Has Errors
- Easily Create New Components

Application Overview

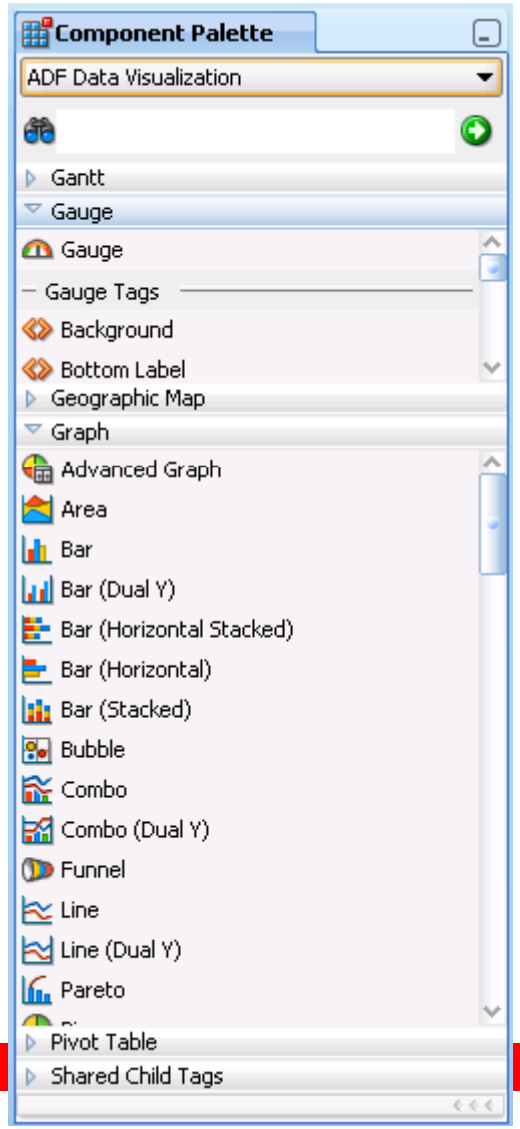


File List


File List
Look in: All Projects
Saved Searches: <New Search>
File Name contains category
Category is ADF Business Components
Date Modified before Oct 18, 2007
Match All
Match Any
Search
More Actions
Results: 7 files found. Oct 18, 2007 6:18 PM
Status
File
Project
Date Modified
ProductCategory.xml Model.jpr Sep 19, 2007 11:57:28 PM
ProductSubcategory.xml Model.jpr Sep 19, 2007 11:57:26 PM
ProductCategoryList.xml Model.jpr Sep 19, 2007 11:57:32 PM
ProductSubcategoryList.xml Model.jpr Sep 19, 2007 11:57:30 PM
CategoryForProductAssoc.xml Model.jpr Sep 19, 2007 11:57:28 PM
SubcategoryForCategoryAssoc.xml Model.jpr Sep 19, 2007 11:57:26 PM
SubcategoryForProductAssoc.xml Model.jpr Sep 19, 2007 11:57:26 PM
File List View

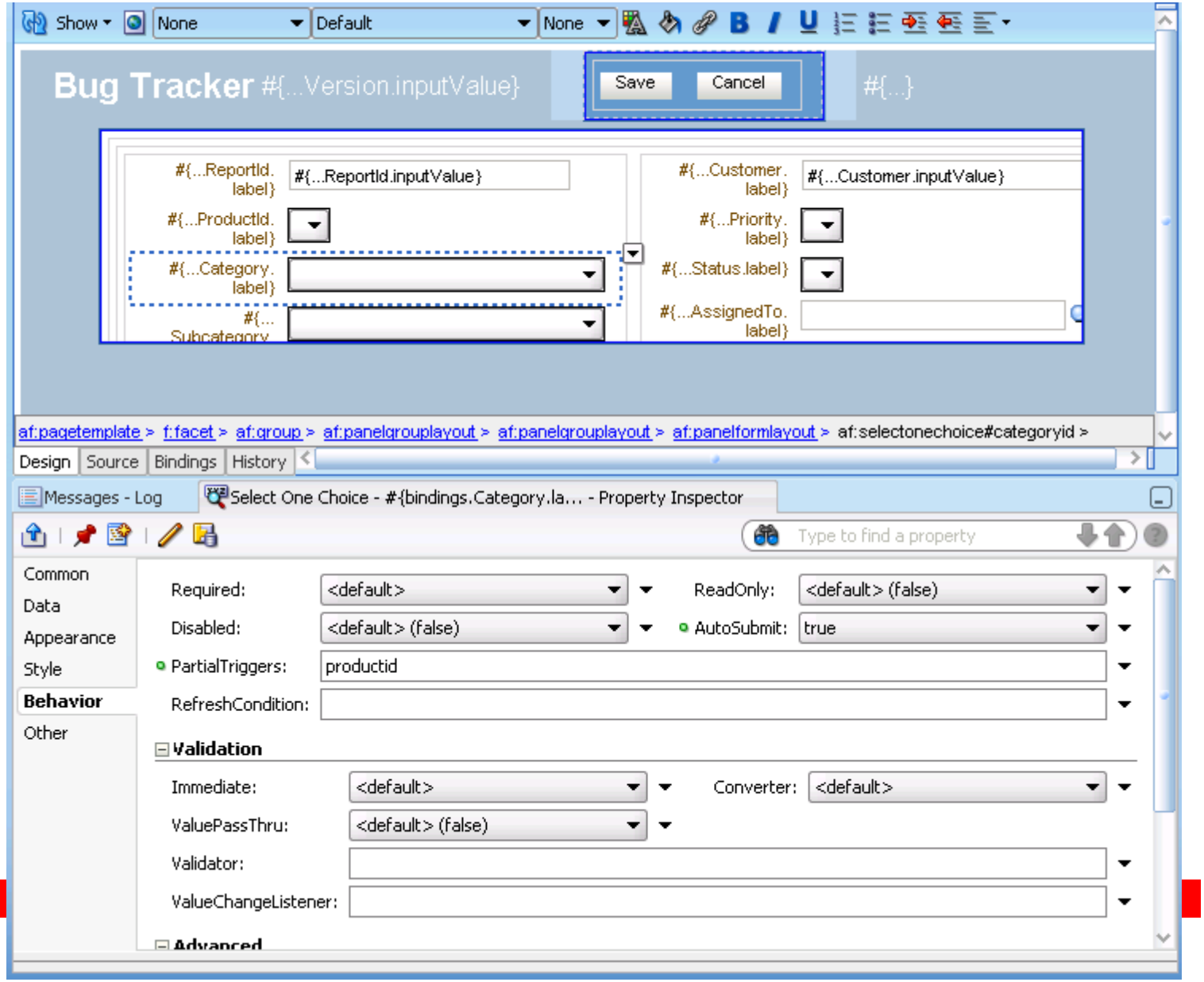
Improved Component Palette

- Collapsible Panels
- Quick Search
- Favorites List
- Recently Used



New Property Inspector

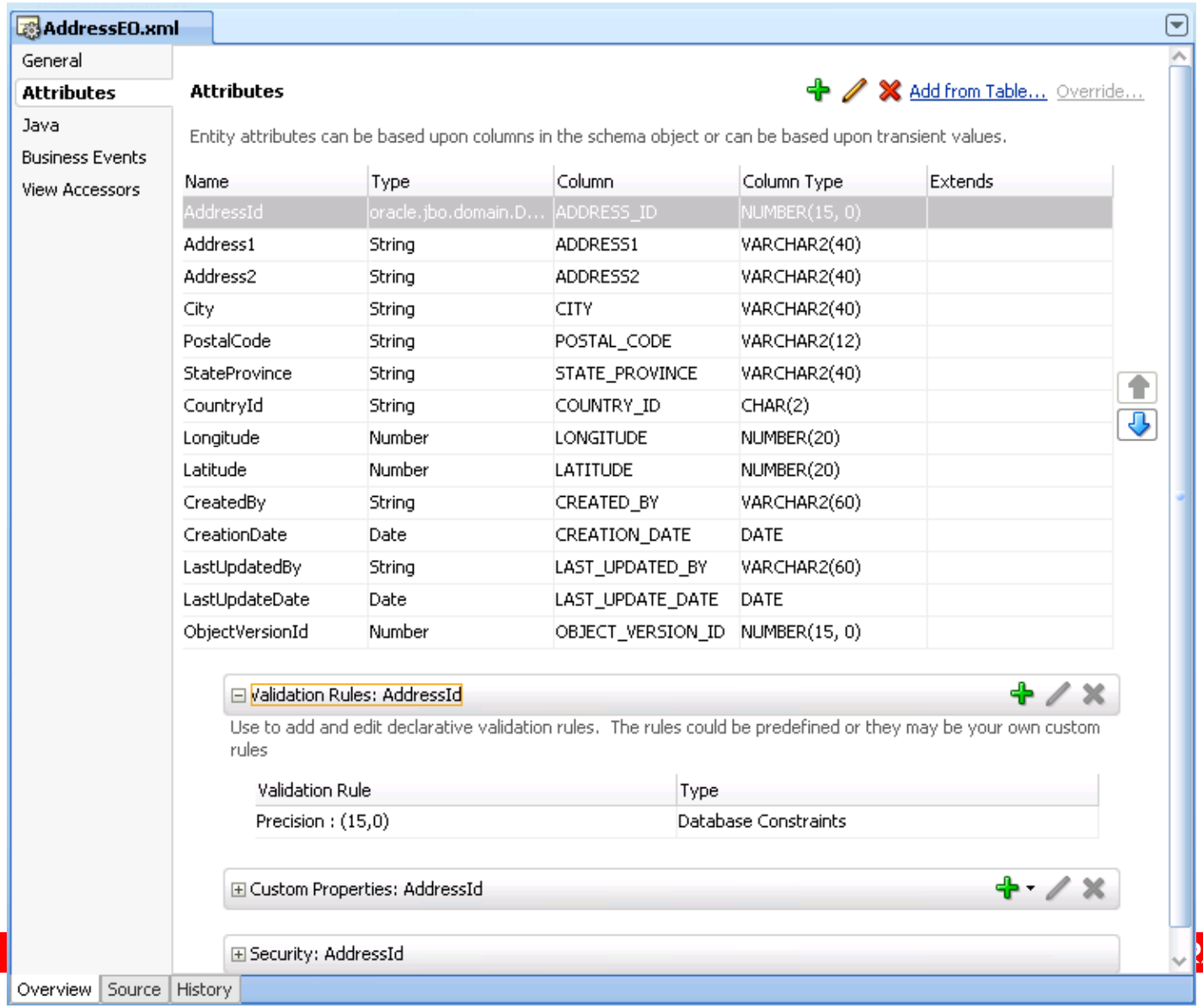
- Layout
- Categories
- Searching



Demonstration

Property Palette Searching

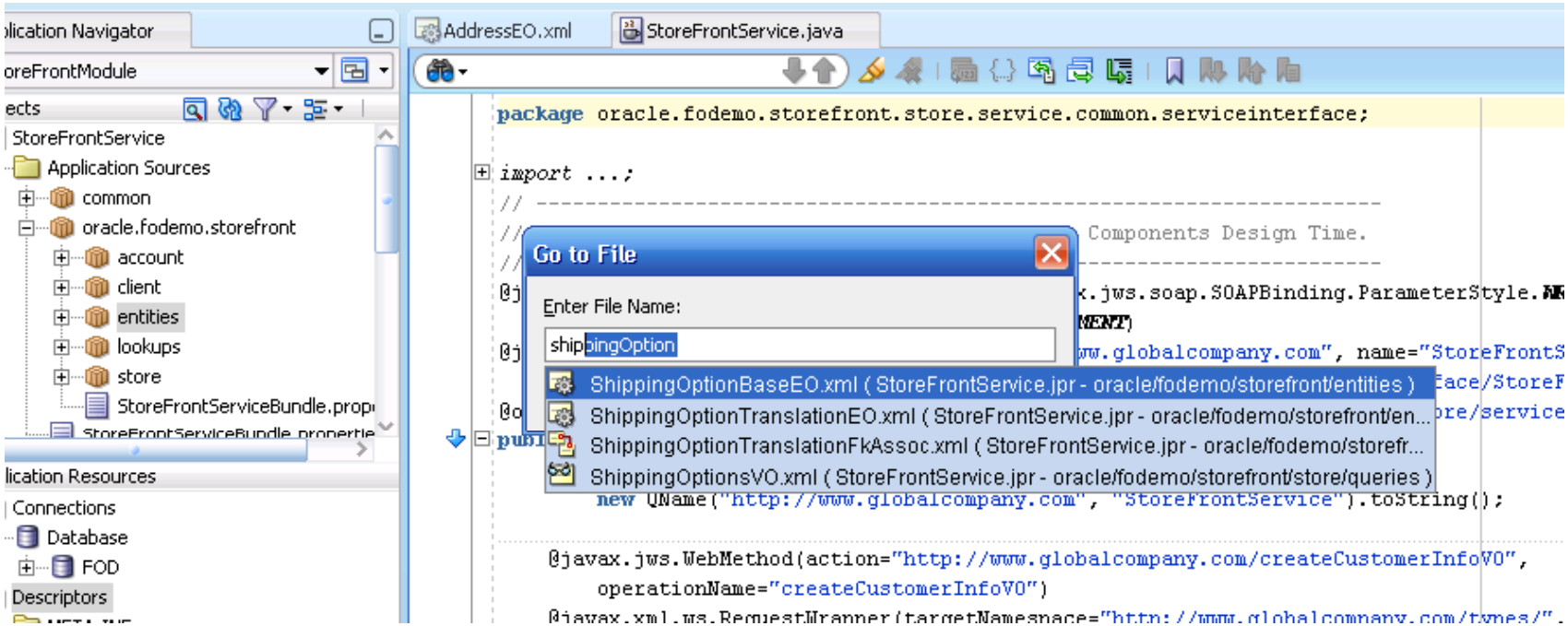
Modeless Editors



Demonstration

Modeless Editors

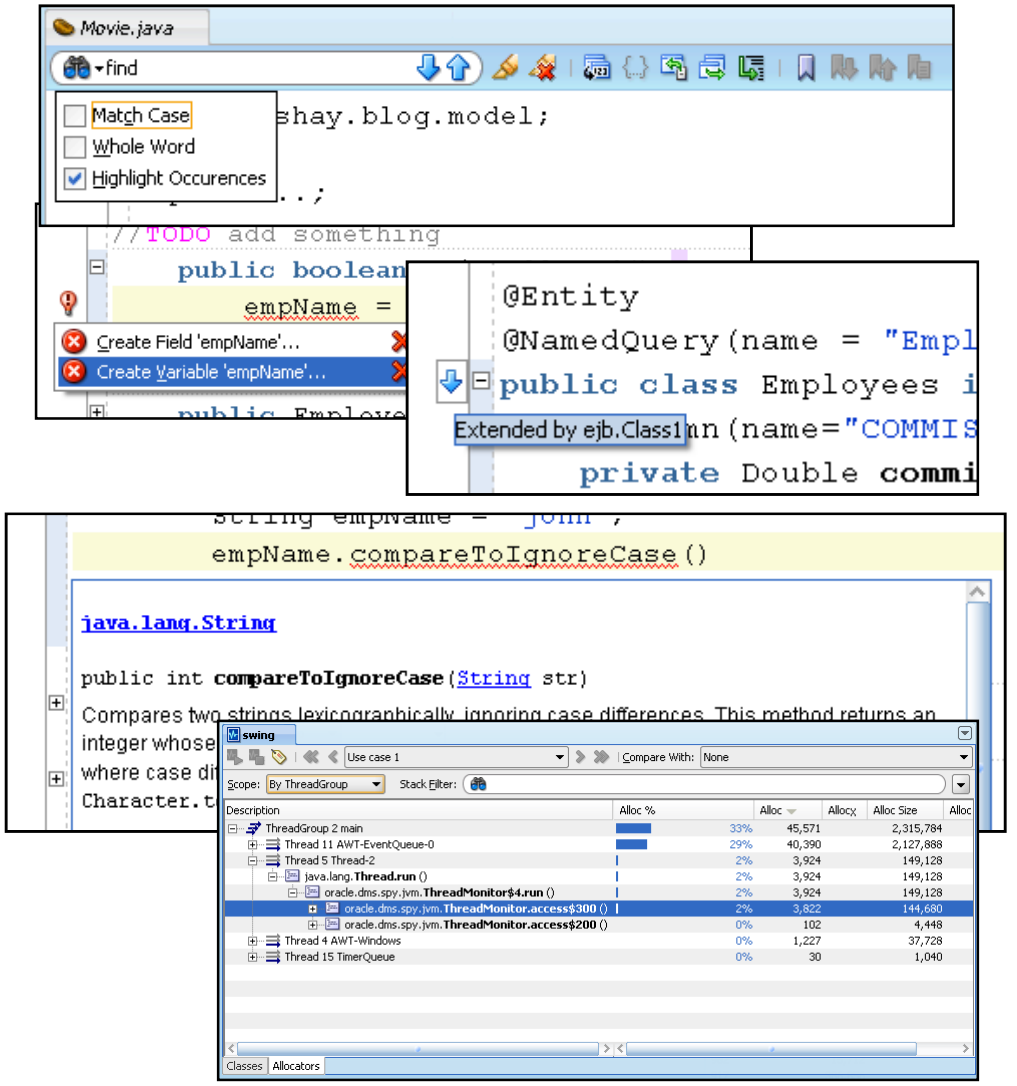
Go To File


Application Navigator
StoreFrontModule
StoreFrontService
Application Sources
common
oracle.fodemo.storefront
account
client
entities
lookups
store
StoreFrontServiceBundle.prop
Application Resources
Connections
Database
FOD
Descriptors
AddressEO.xml
StoreFrontService.java
package oracle.fodemo.storefront.store.service.common.serviceinterface;
import ...;
Go to File
Enter File Name:
shippingOption
ShippingOptionBaseEO.xml (StoreFrontService.jpr - oracle/fodemo/storefront/entities)
ShippingOptionTranslationEO.xml (StoreFrontService.jpr - oracle/fodemo/storefront/en...
ShippingOptionTranslationFkAssoc.xml (StoreFrontService.jpr - oracle/fodemo/storefr...
ShippingOptionsVO.xml (StoreFrontService.jpr - oracle/fodemo/storefront/store/queries)
new QName("http://www.globalcompany.com", "StoreFrontService").toString();
@javax.jws.WebMethod(action="http://www.globalcompany.com/createCustomerInfoVO",
operationName="createCustomerInfoVO")

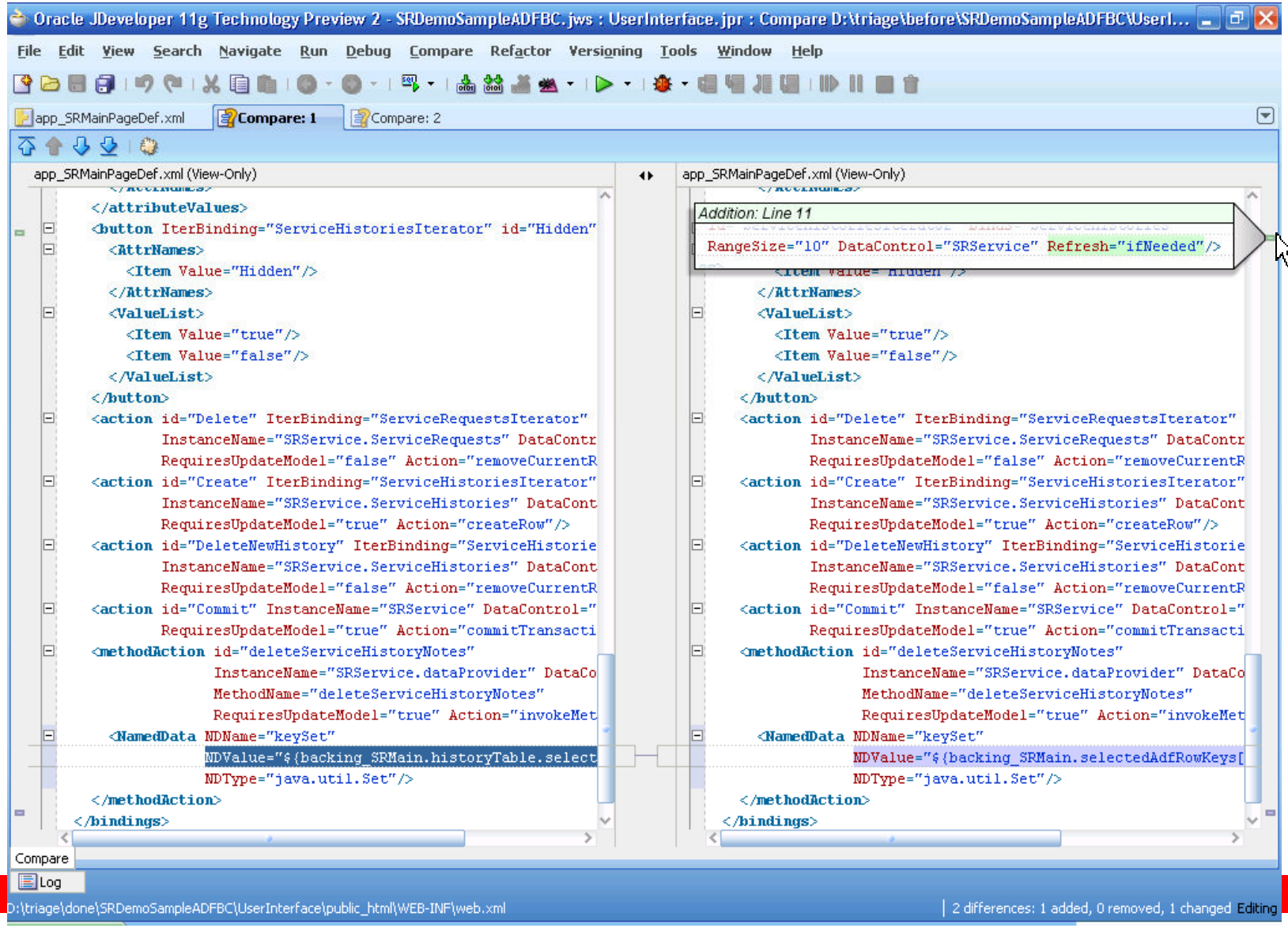
Simplified
Java Development

New Features for Coders

- Code-editor improvements
  - Toolbar, auto highlight, more syntax colors, quick javadoc for functions, better hierarchy navigation
- New code generation
  - Constructors, equals & hash code, improved accessors generation
- JUnit 4.0 support
- New profilers
  - Memory and CPU
  - Run on native JVM
- XML compare and merge conflict



XML-Aware File Compare



Ant Debugging

- Find Problems in Your Build Files
- Set Breakpoints
- Step
- See Values of Properties

Demonstration

Ant Debugging

Enhanced Subversion Support

- Branch/Tag, Switch / Merge
  - Files, Projects, and Applications
- Incoming Changes
  - Now visible in the Pending Changes
- XML-Aware Interactive Merge Conflict Resolution

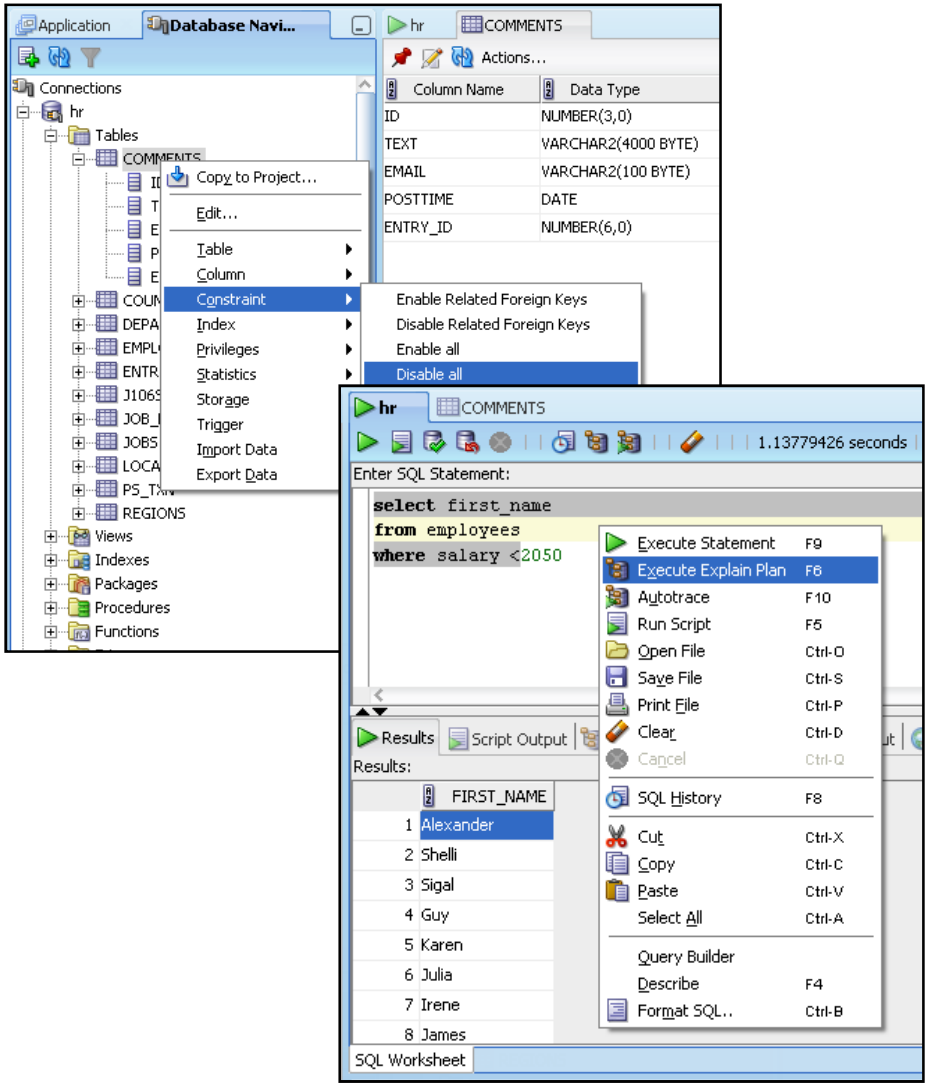
UML Diagramming

- Show / Hide Individual Attributes and Operations
- Drag to Reorder Attributes and Operations
- Improved Visual Feedback for Error Conditions
- Set Default Preferences for Multiple Object Types
- Multi-level Undo/Redo
- Better Refactoring Integration for Java Class Diagram
- Improved Diagram Printing Options

Simplified
Database Development

New Features for Database Developers

- SQL Developer integrated
- Additional online/offline database manipulation capabilities
- Extended SQL worksheet
- Edit PL/SQL files
- Enhanced database modeler



Database Navigator (SQL Developer)

- Database Navigator
  - Explore Entire Contents of Your Schema
- SQL Worksheet
  - Execute Scripts, Explain Plan, Autotrace, Drag Code Snippets
  - See DBMS_OUTPUT and OWA content in the log
- Creation of All Kinds of Tables and Views
  - External, IOT, Temp, Partitioned, Materialized Views
- Extensive Object Modification Support
  - Table Rename, Add Columns, Compile Programs Units, Rebuild Indexes, Test Database Links
- Browse, Query, Update, Delete, Sort, and Filter
- Export and Import Data in Multiple Formats, Export DDL
- Query Builder

Demonstration

Query Builder

Enhanced Offline Database Support

- Multiple, Named Offline Databases with Cross-Referencing
- New Object Types:
  - IOT and External Tables
  - Partitioned tables and indexes
  - Materialized views and view logs
  - Object Collections
  - Triggers
  - Domain indexes
  - Schema Storage Properties
  - Auto-generated column values
- Custom Schema Object Metadata
- Query Builder

Simplified
Enterprise Java Development

Deployment

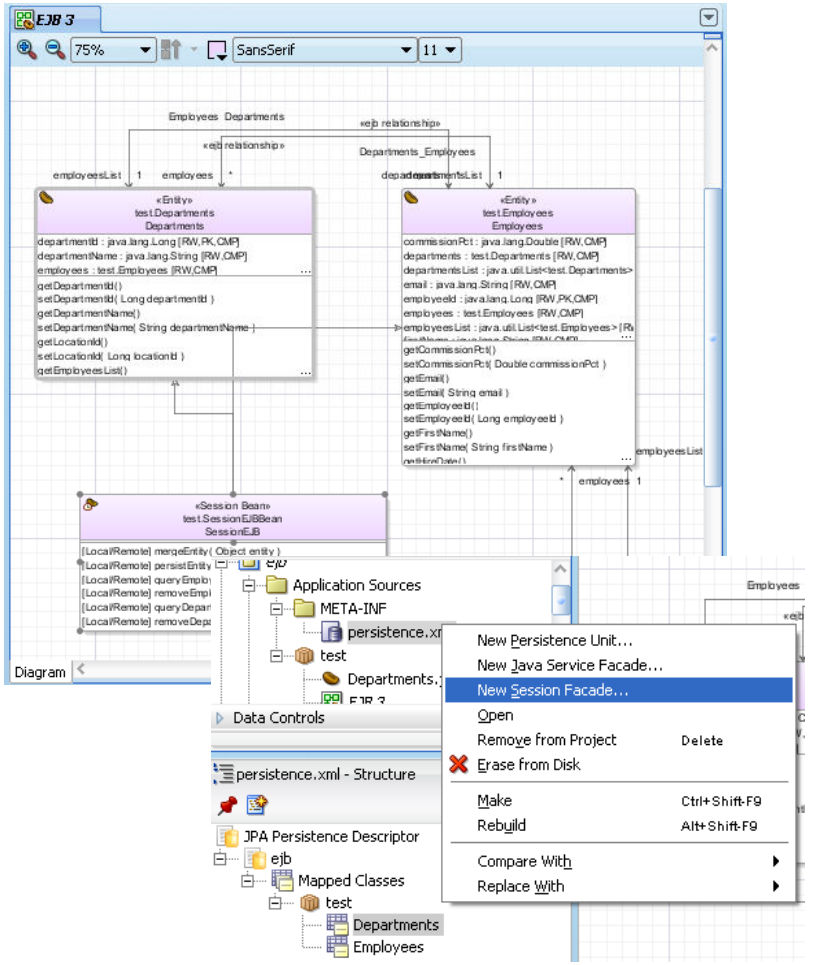
- Configure Full Oracle App Server for Testing
- Application-Level Deployment Profiles
- Command-Line Deployment with `ojdeploy`

JavaScript Editing and Debugging

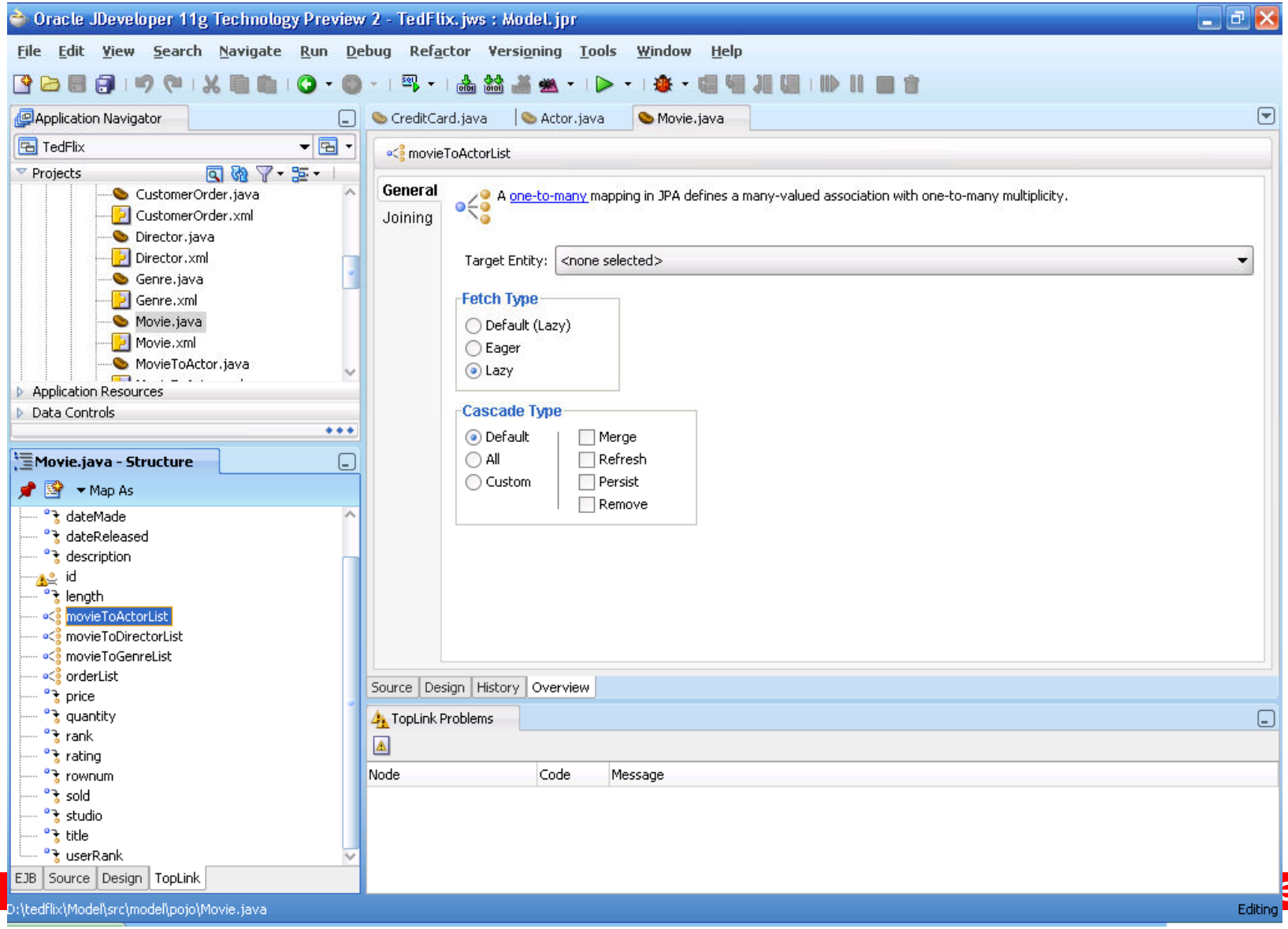
- Integrated JavaScript Editor
  - Syntax highlighting, Brace matching
  - Code folding, Code insight
  - Error underlining and audits
  - Find usages, Refactoring
  - Go to declaration
  - Structure pane integration
- Rich JavaScript Debugging
  - Breakpoints, Stepping, Watches, Modify Data
  - See All Loaded Files
  - Remote Debug using Firefox

EJB 3.0/JPA/TopLink New Features

- EJB 3.0/JPA
  - EJB 3.0 visual modeler
  - Annotation insight
  - Declarative persistence.xml and orm.xml editing
  - Web Services Support (JSR 181)
- Oracle TopLink
  - Object/XML mapping
  - Enhanced object/relational support



Improved JPA / Toplink Design Time

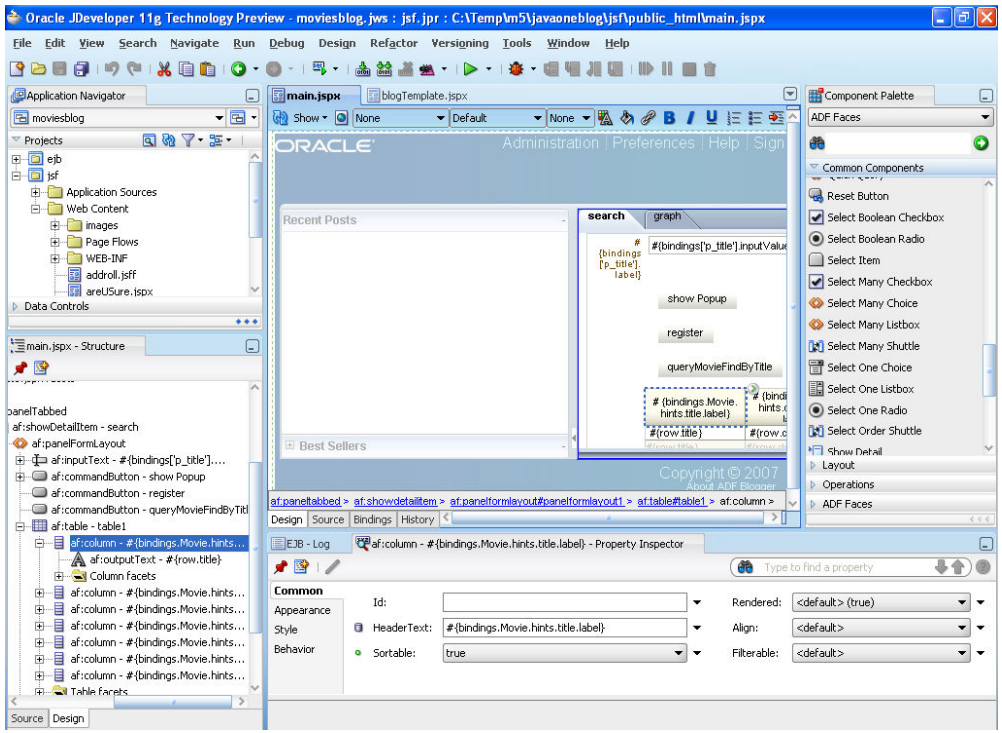


EJB 3.0 Development

- Simplified configuration of EJB 3.0 session beans and message driven beans leveraging annotation insight and property inspector
- EJB 3.0 diagramming support
- Support for JSR 109 Deployment model
- Web Services support via JSR 181

JSF New Features

- JSF 1.2 support
- Improved visual editor
  - Easier manipulation
  - Ajax rendering
- Improved expression builder
- ADF Faces rich client components

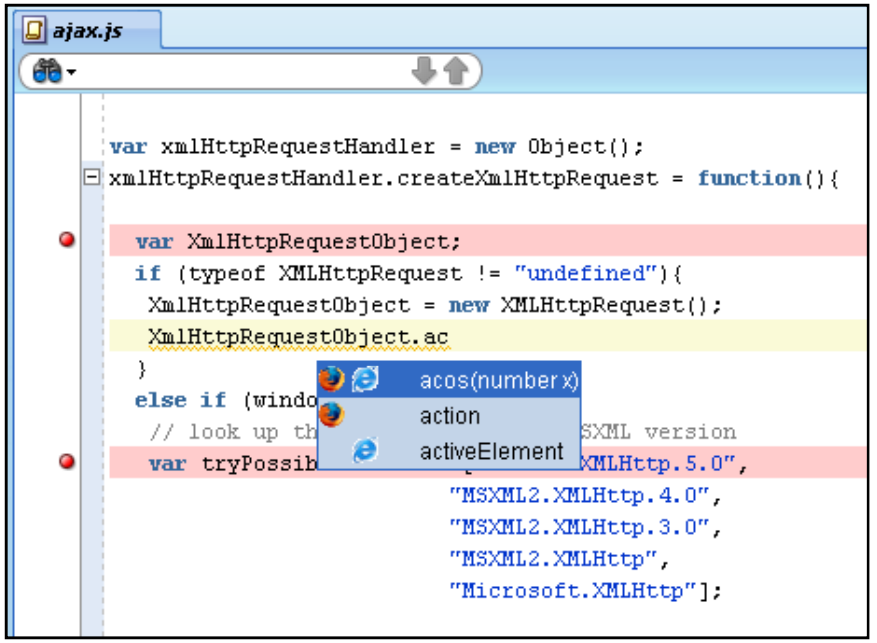


Demonstration

Quick JSF Design Demo

New JavaScript Support

- Helpful editor
  - Syntax highlighting
  - Brace matching
  - Code folding
  - Code insight
  - Error underlining and audits
  - Go to declaration
- JavaScript debugger
- Find usages
- Refactoring
- Structure pane integration



New Features for Web Services

- Create Java EE 5.0 (JAX-WS) Web services
- Annotations support
  - Code insight, property inspector
- Improved WSDL editor
  - Drag and drop operations, validation, layout
- New WS-Tester
- Improved http analyzer
  - Stub out messages
- Improved WS generation
  - Incremental changes, doesn't override changes

Demonstration

HTTP Analyzer

Oracle ADF New Features

- ADF View
  - ADF Faces Rich Client UI & Data Visualization Components
  - Page Templates, Fragments, and Declarative Components
- ADF Business Components
  - Enable Service Interface for Web Service Access
  - Declarative LOV's, Validations, and View Criteria
- ADF Data Binding
  - Improved Design Time Editors and Navigation
  - Refactoring Support
- ADF Controller
  - Task Flows and Declarative Transaction Management
  - Back Button and Bookmarking Support
- ADF Swing
  - New Shuttle Panel, Tree Table, and LOV button

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