Integration with WS-AppServer

Cordys BOP 4.1 Developing User Interfaces



Agenda

- Where to Place Business Logic
- Integration with User Interfaces
- Integration Events

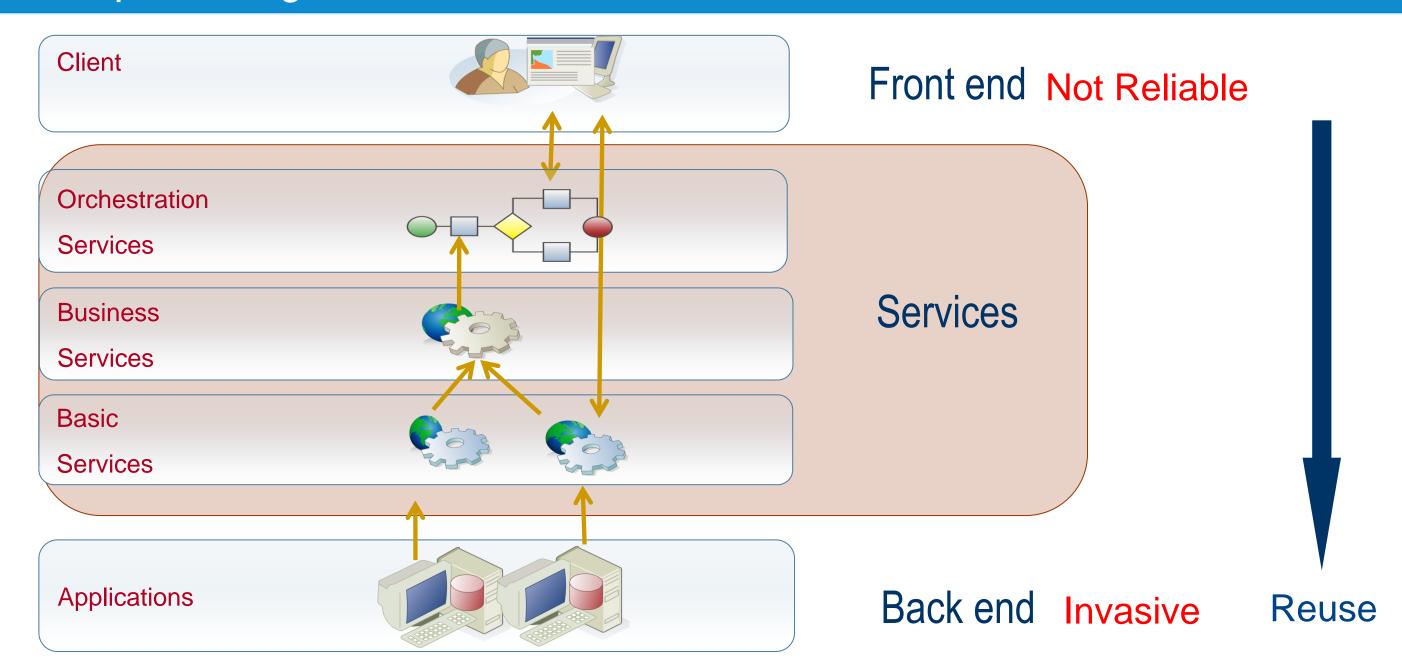
Business Logic - Examples

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- Initialization
 - OrderDate = now
- Access logic
 - Field/Object not accessible
- Validation
 - Order must have customer
- Application/Business logic
 - ◆ If order amount > 100000 then discount = 3%

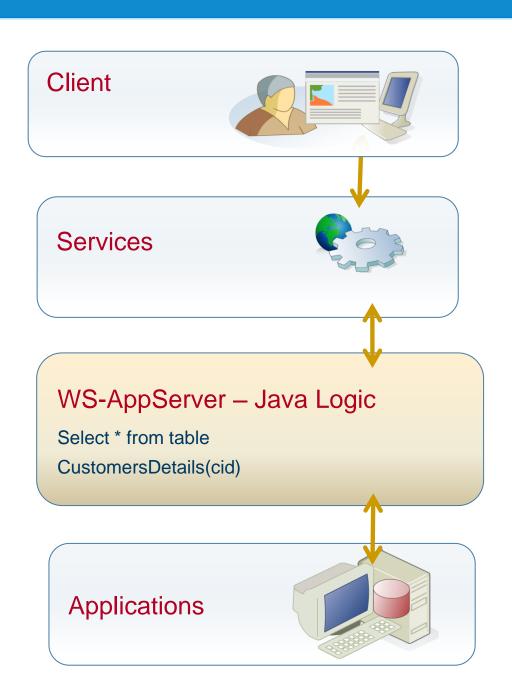
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Where to place Logic



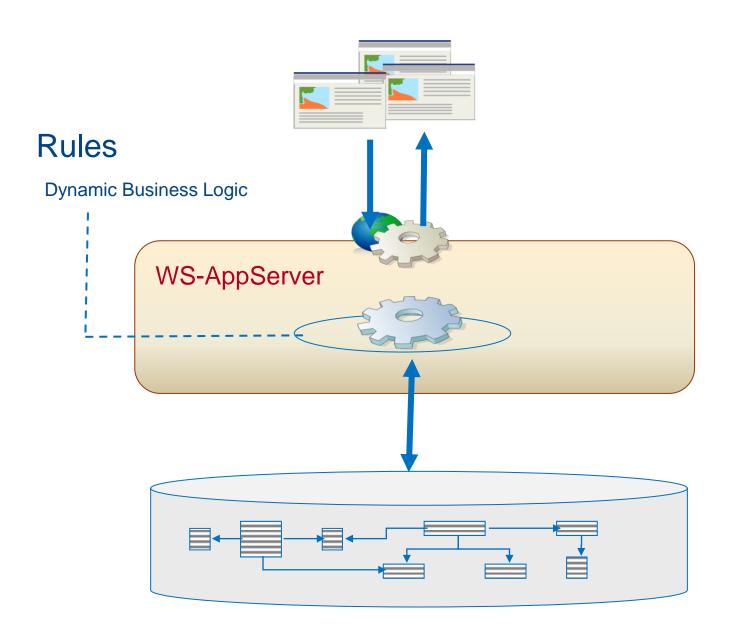
Service With Business Logic Layer

- Business Logic Server Side
- Metadata Abstraction
- DB Transaction Support
- Dynamic Integration with User Interfaces
- Rules Support



Where to Place Logic

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Presentation (Usability) Logic

- Application/Business Logic
- Access Logic
- Constraint Logic

Backend Logic (constraint)

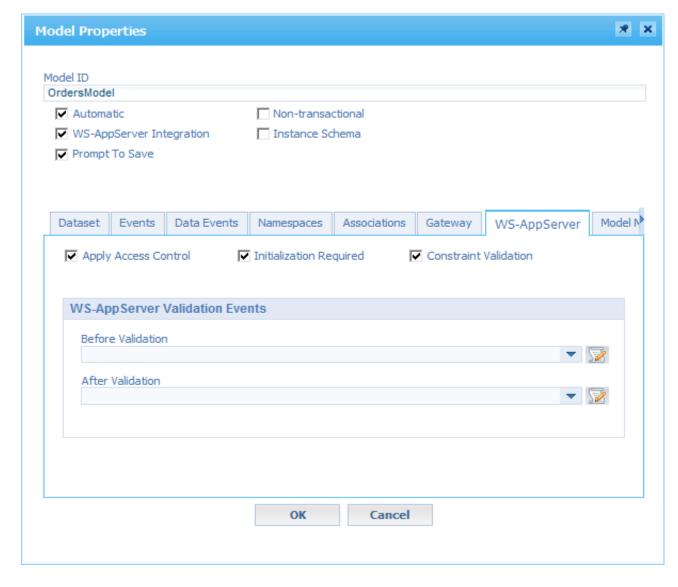
Invasive

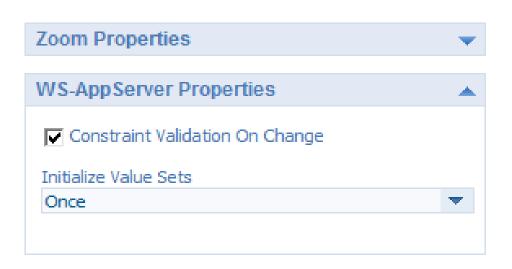
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User Interface Integration

- Form display acts on implemented logic based on model properties
- Fields act on field specific logic based on the fields WS-AppServer properties





Integration Overview

- Event based
- Server Side
- Java programming language
- Support for:
 - Validation logic
 - Initialization logic
 - Change logic
 - Access and Display logic
 - Insert / Update / Delete logic
 - Commit logic

Client-Side vs. Server-Side

- Client-Side (JavaScript)
- + Quick to develop
- + No round-trip

- Behavior differences across browsers and clients, for example datetime settings
- Performance dependent on client
- Difficult to re-use

- Server-Side (Java)
- + Browser independent
- + Easy re-use across User Interfaces
- + Easy to maintain
- Round-trip to server even for small checks and changes
- More work to set up initially

Agenda

- ◆ Where to Place Business Logic
- ◆ Integration with User Interfaces
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Integration Events

- Both Object and Attribute Level
 - Initialize
 - Access
 - Display
 - Constraint
- Attribute Level only
 - Availability
 - Values
 - Change (before and after)

Integration Events (continued)

- Object Level only
 - AfterLoad
 - Insert (before, on and after)
 - Update (before, on and after)
 - Delete (before, on and after)
 - Commit (before and after)
 - Abort (before and after)

Some functions and Useful Classes

- AccessMode
- triggeredBy()
- StdTriggers
- QueryObject
- BusObject
- BusObjectIterator<class>
- setProperty()
- **♦**BSF

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Thank You

Questions?