



# J2EE Component Architecture

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Raimundo@xcesium

# Speaker's Qualification

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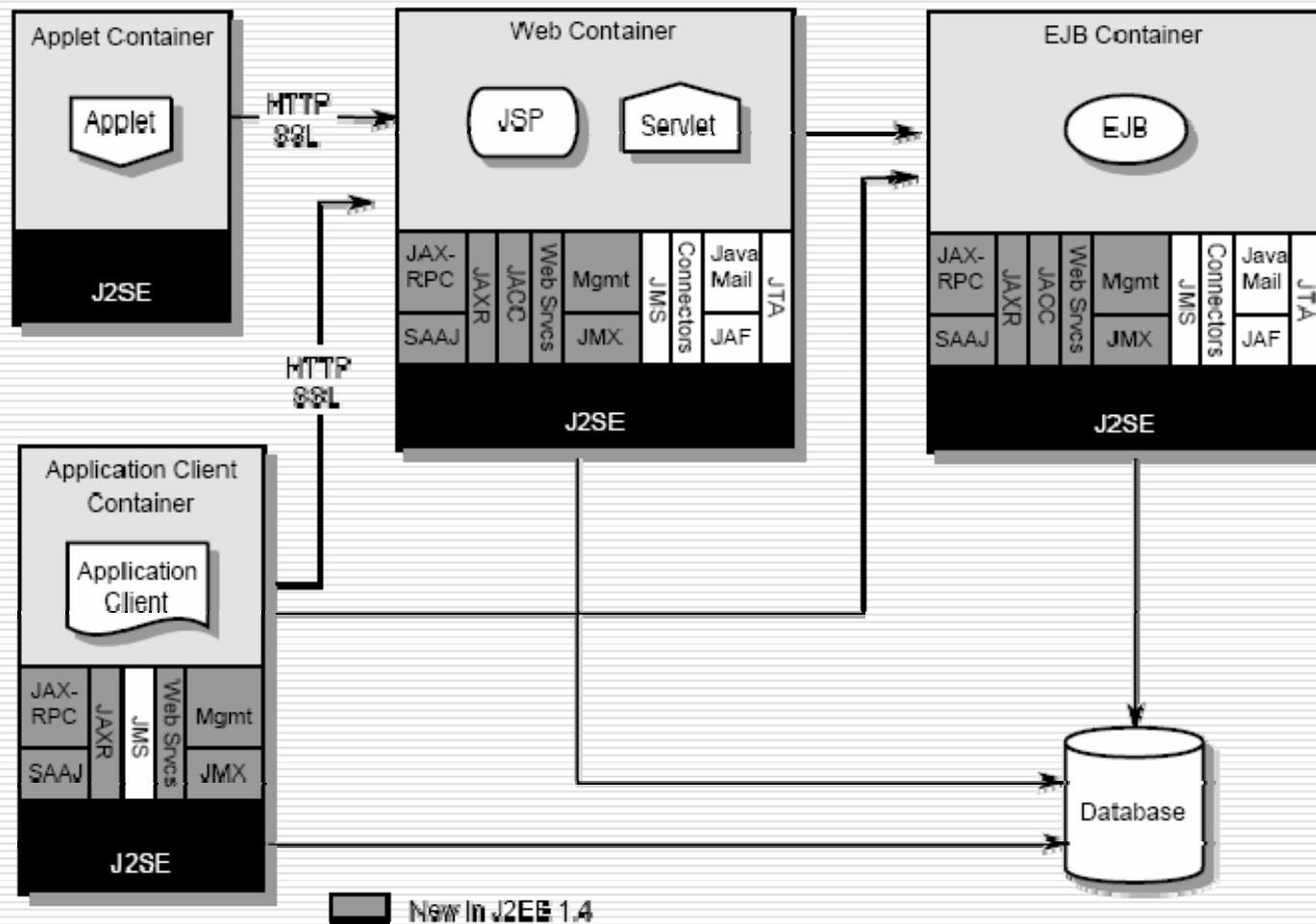
- 徐昊(raimundo, vincentx, echoaholic)
    - Chief/Senior Software Architect
    - Instructor (or Pedagogue...)
      - Classical Guitar
      - Software Development
    - Consultant
      - Software Architecture
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# Agenda

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- J2EE Component Architecture Overview
  - Component Implementation
    - EJB explained
  - Lightweight J2EE
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# J2EE Architecture



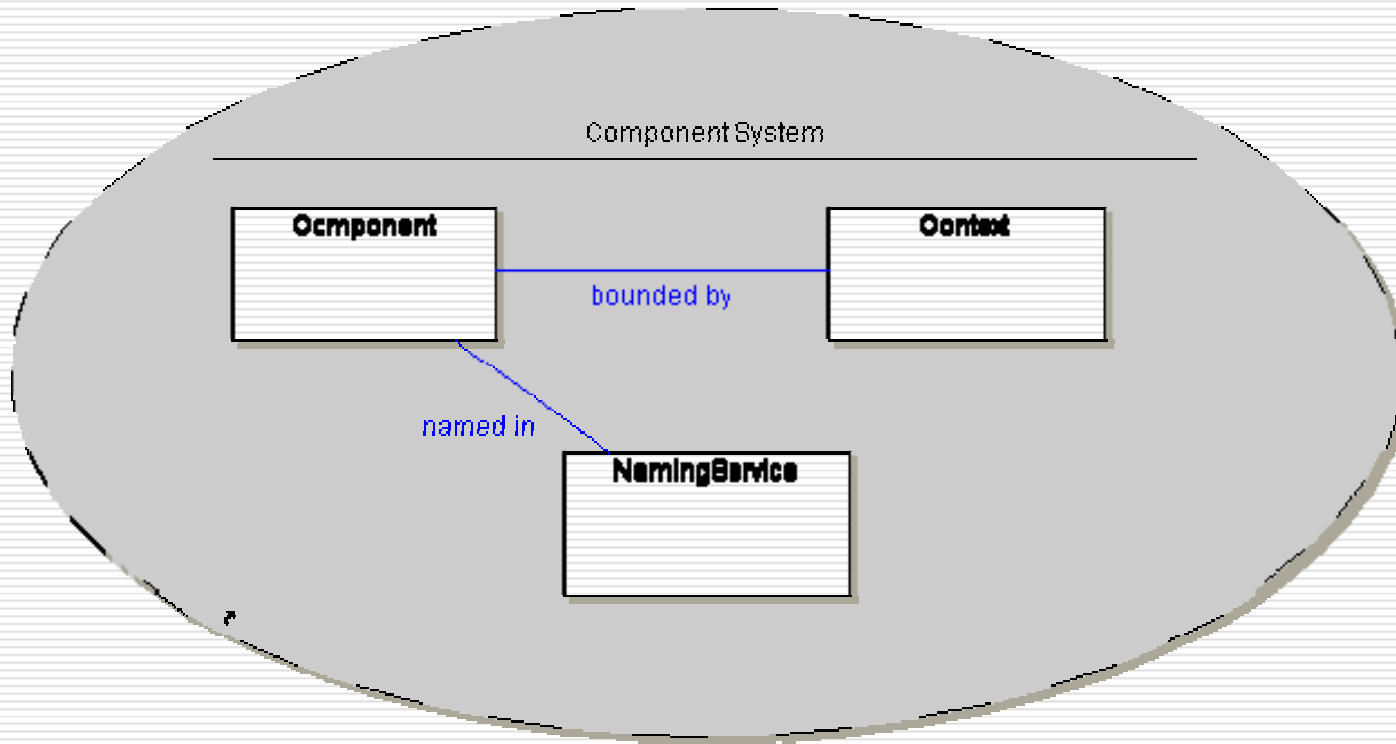
# Basic Concept of J2EE Component

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- Separation of Container and Component
    - Component provides business implementation
    - Container provides infrastructure service
    - Container provides context for each component
  - Separation of Internal and External
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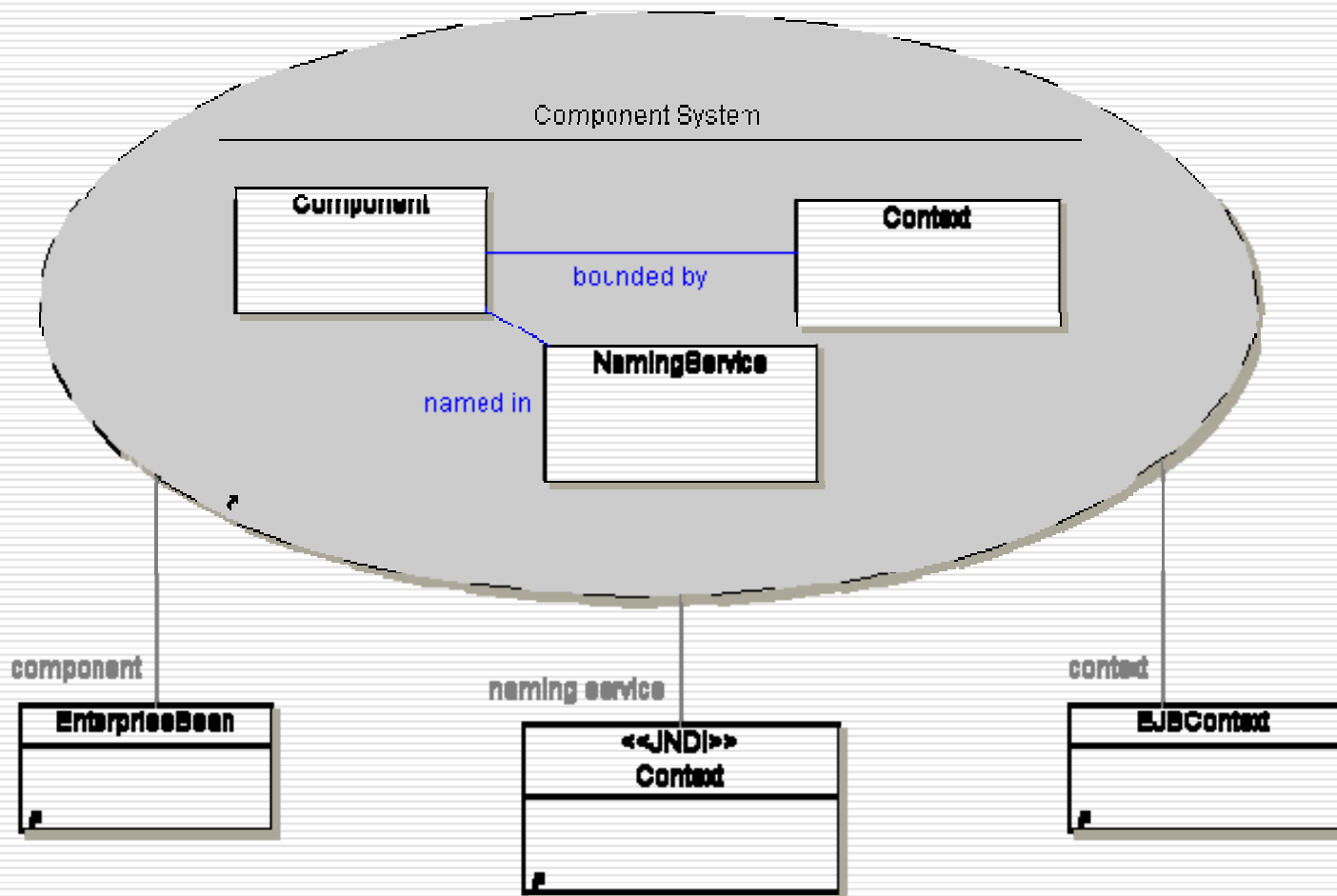
# Basic Collaboration

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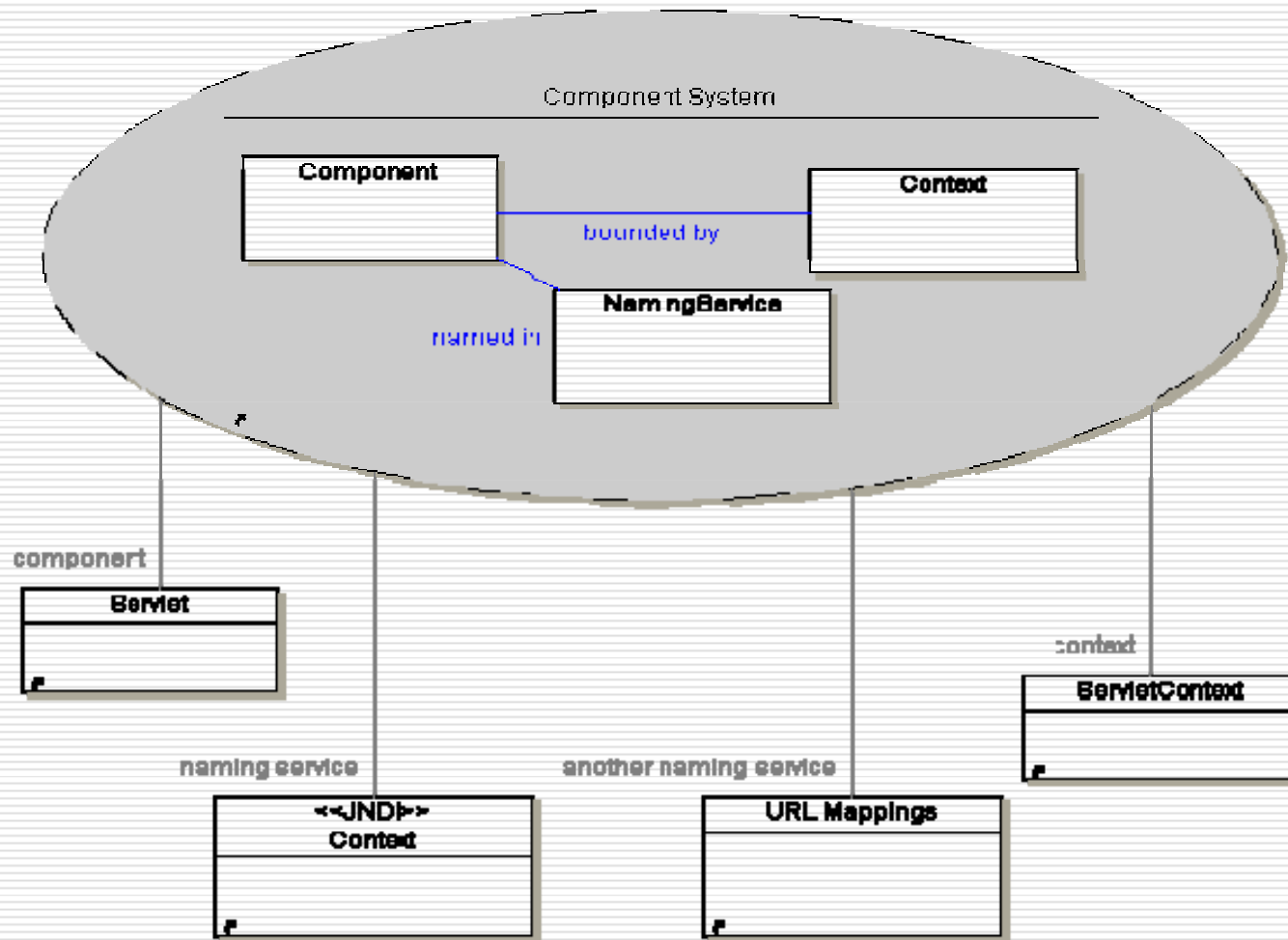
# Example A — EJB

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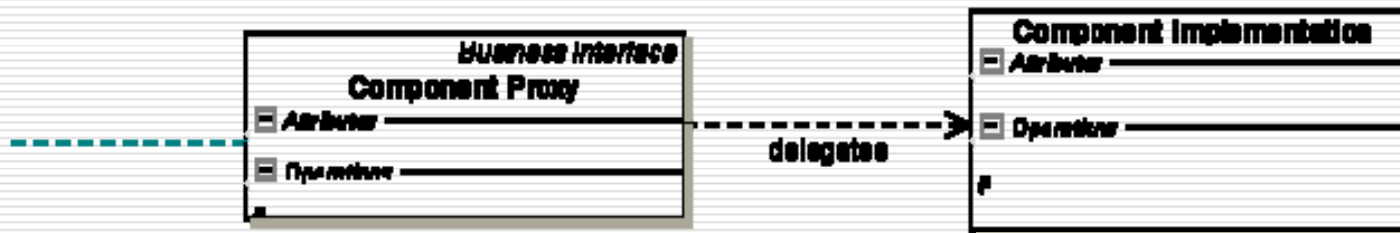
# Example B — Servlet

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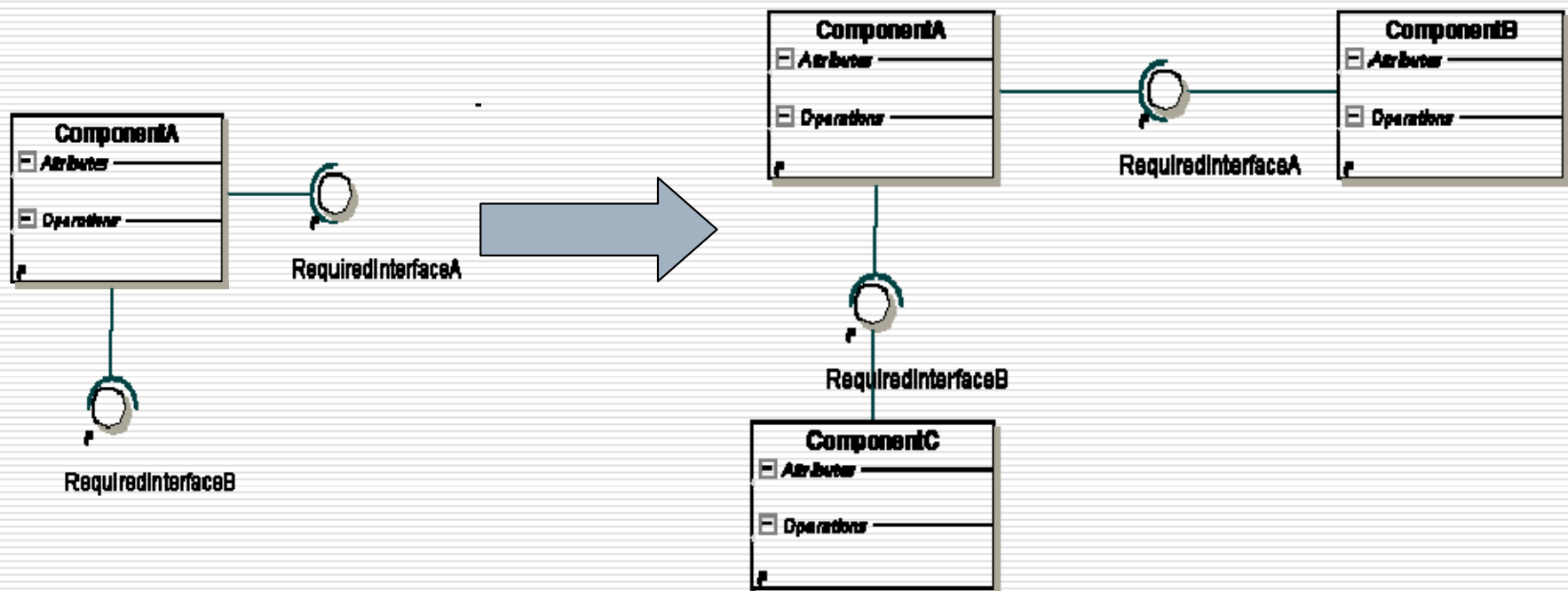
# Internal and External——EJB Call

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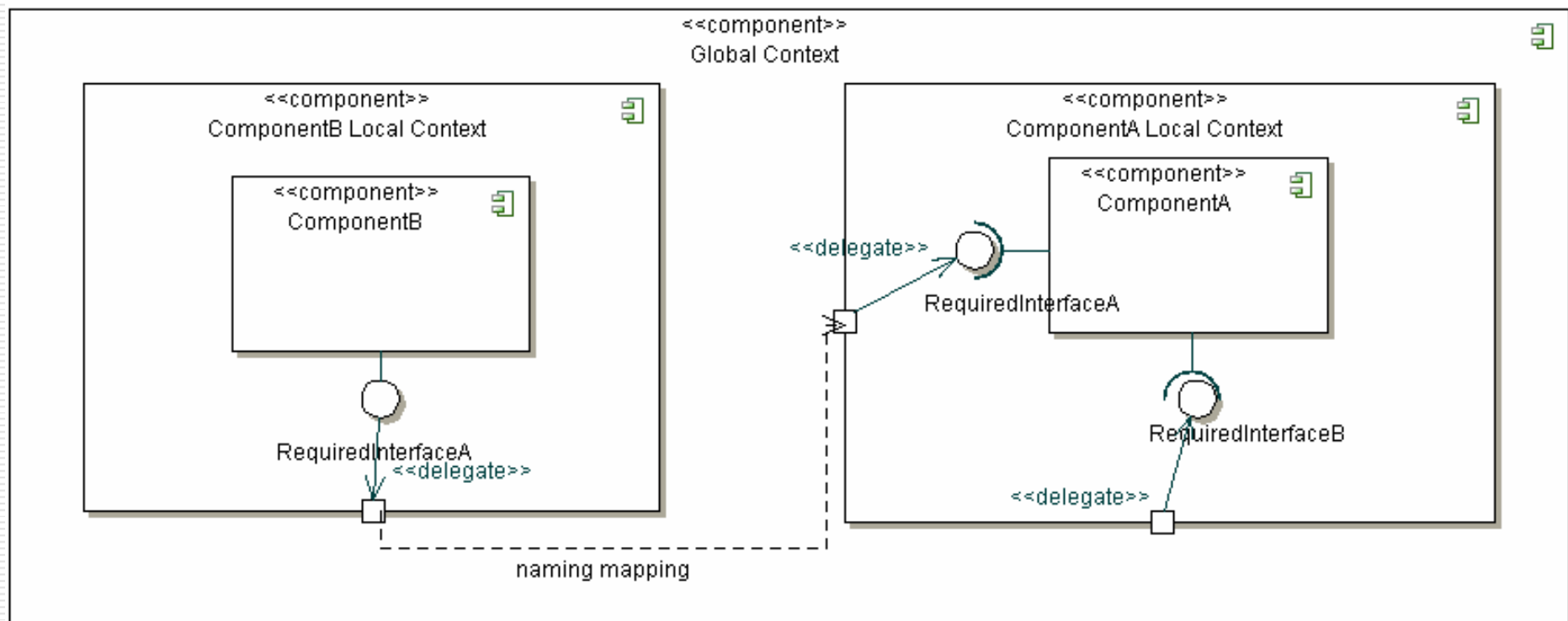


# Internal and External — Assembling

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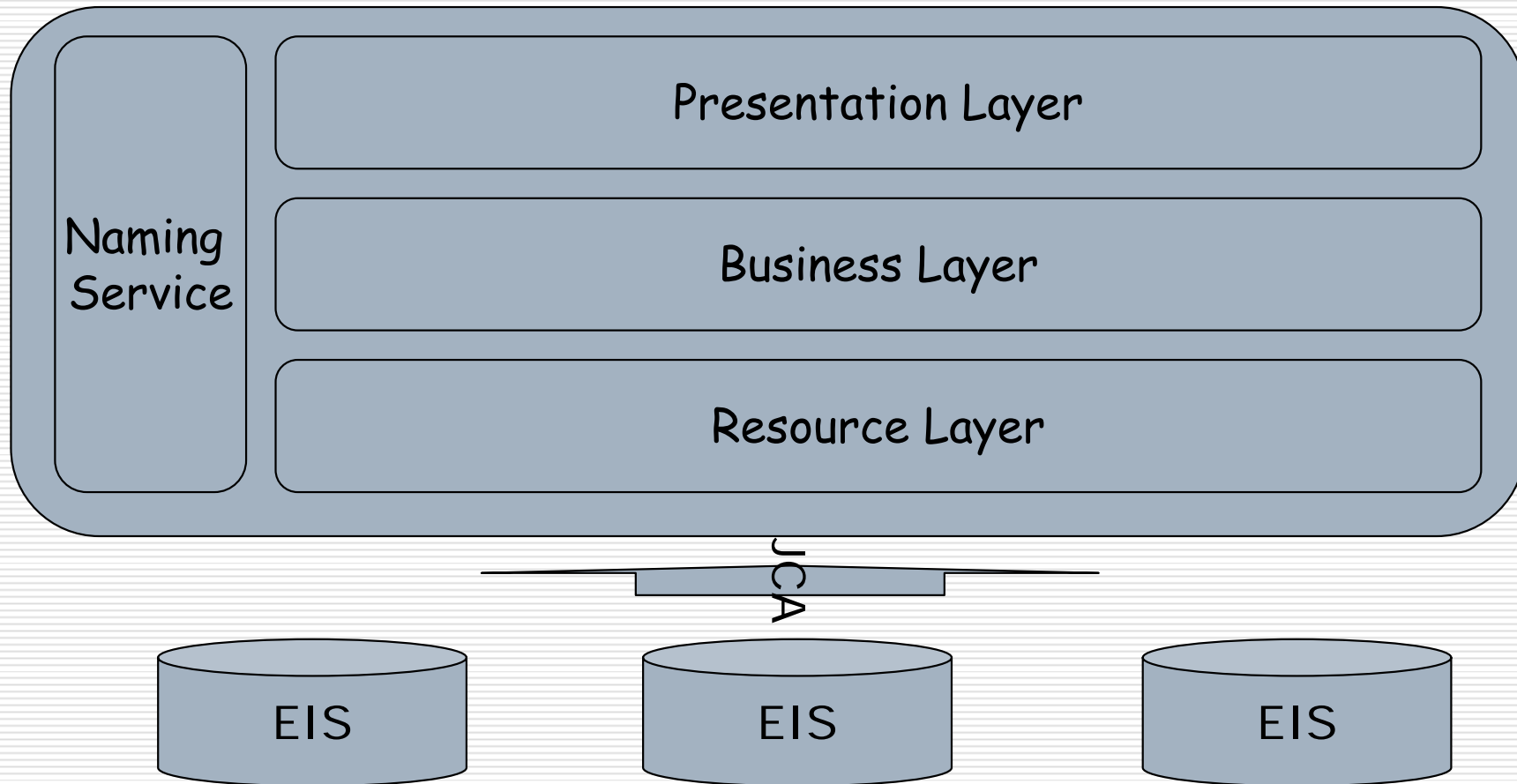


# Internal and External — Assembling



# Internal and External — TOEA

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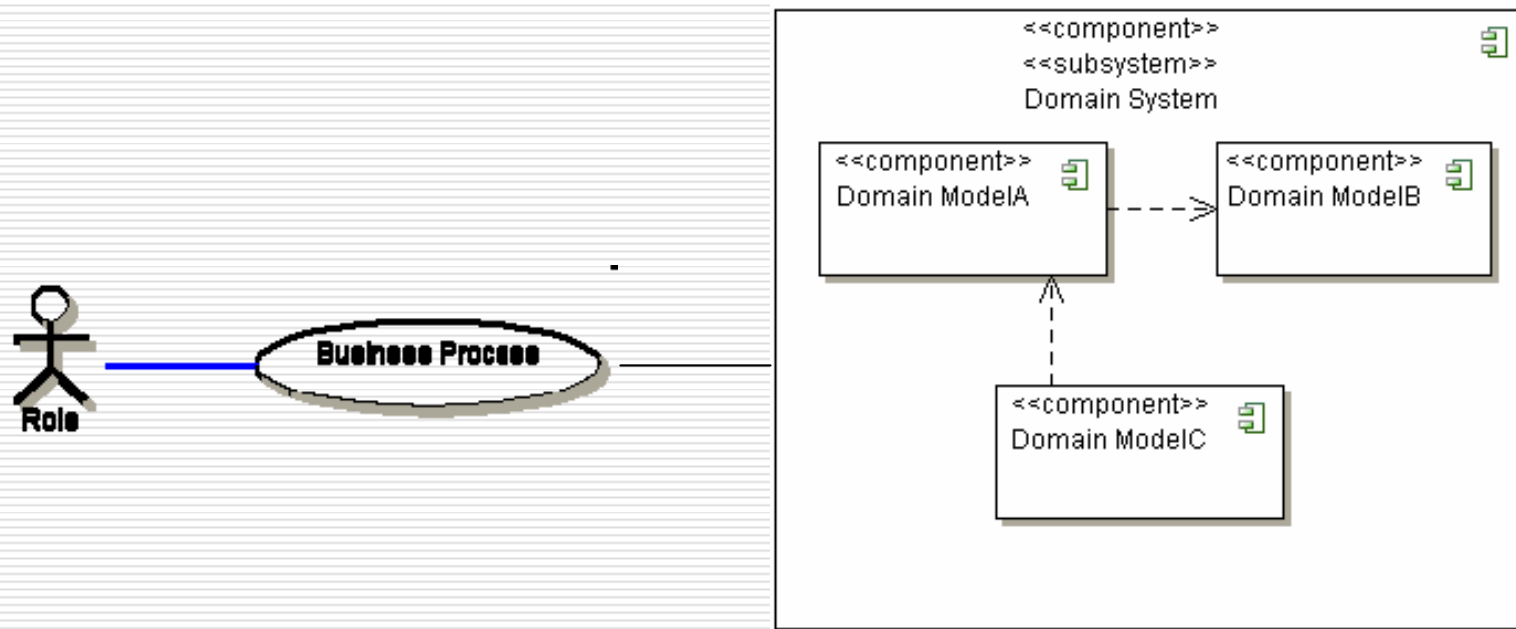
# Internal and External

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- Implementation
  - Interaction
  - Responsibility
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# Component Implementation

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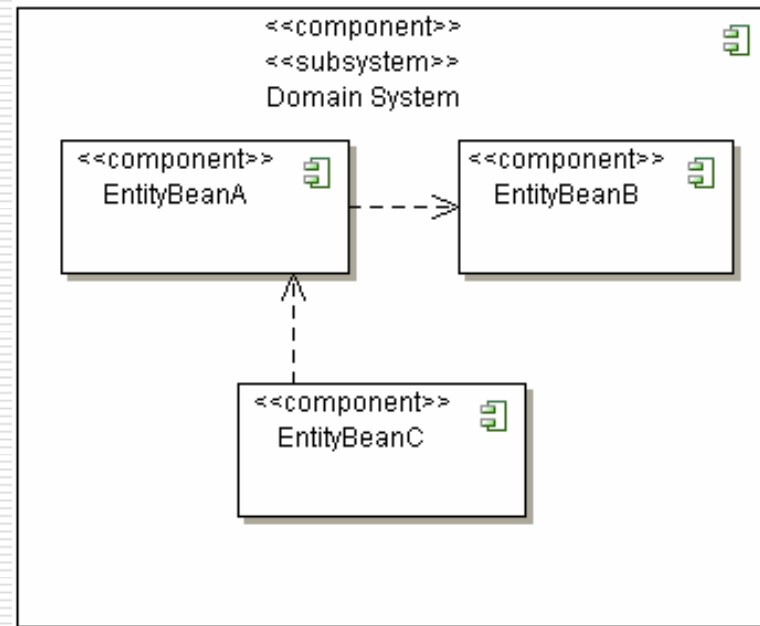
# Component Implementation

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- Behavior Modeling
    - Use Case Modeling
    - Business Process Modeling
  - Domain Modeling
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# Component Implementation — EJB

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# Component Implementation — EJB

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- Session Bean
    - Use Case
    - Business Process
  - Entity Bean
    - Domain Model
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# Component Implementation — Waterloo

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## □ EJB 1.x

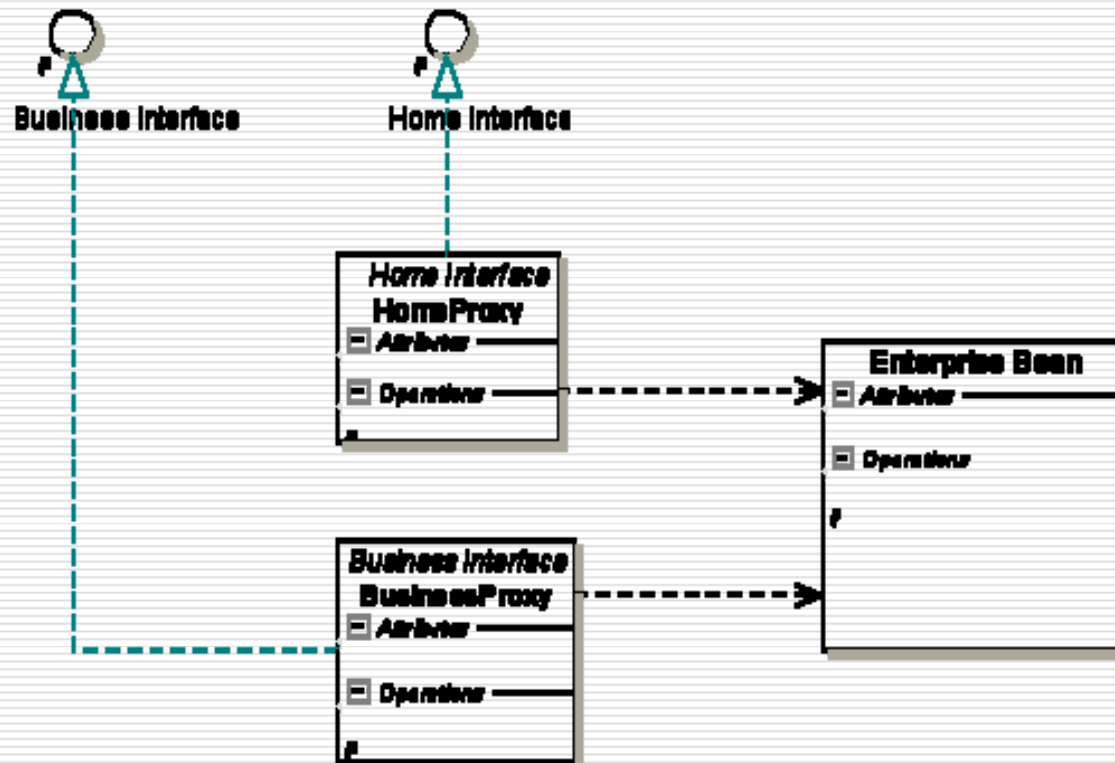
- Performance
- Complexity

## □ EJB 2.x

- CMP Entity Bean (Can not be worse!!!)
  - Complexity
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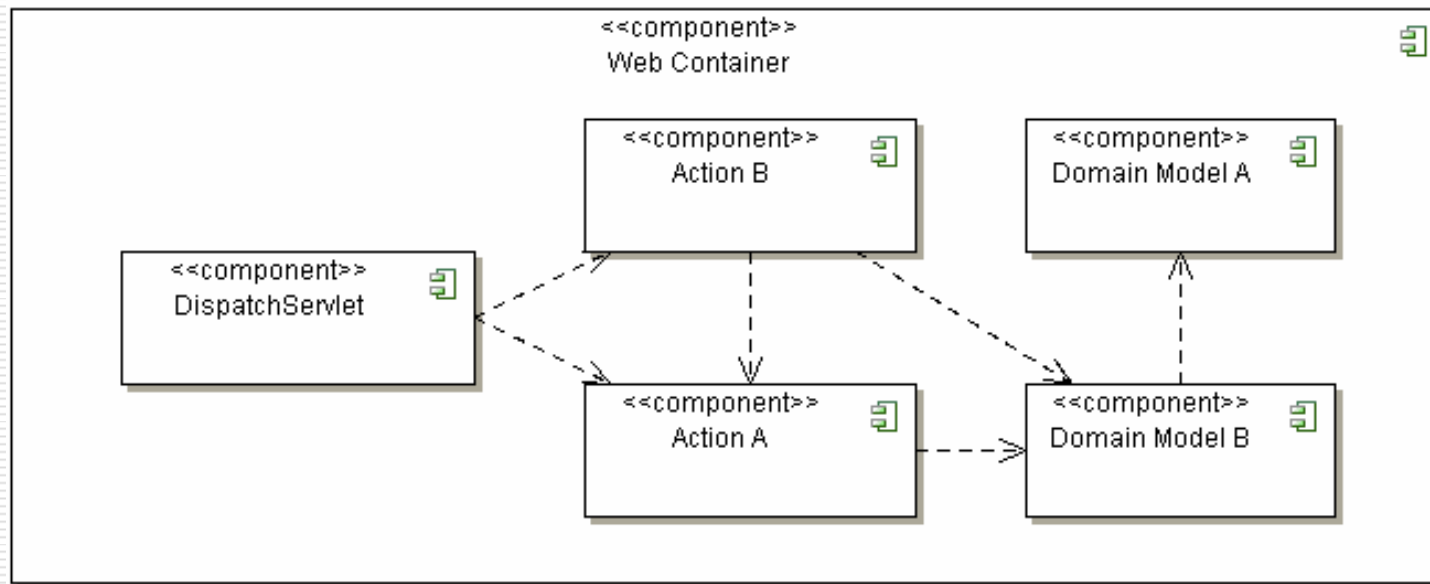
# Component Implementation — EJB

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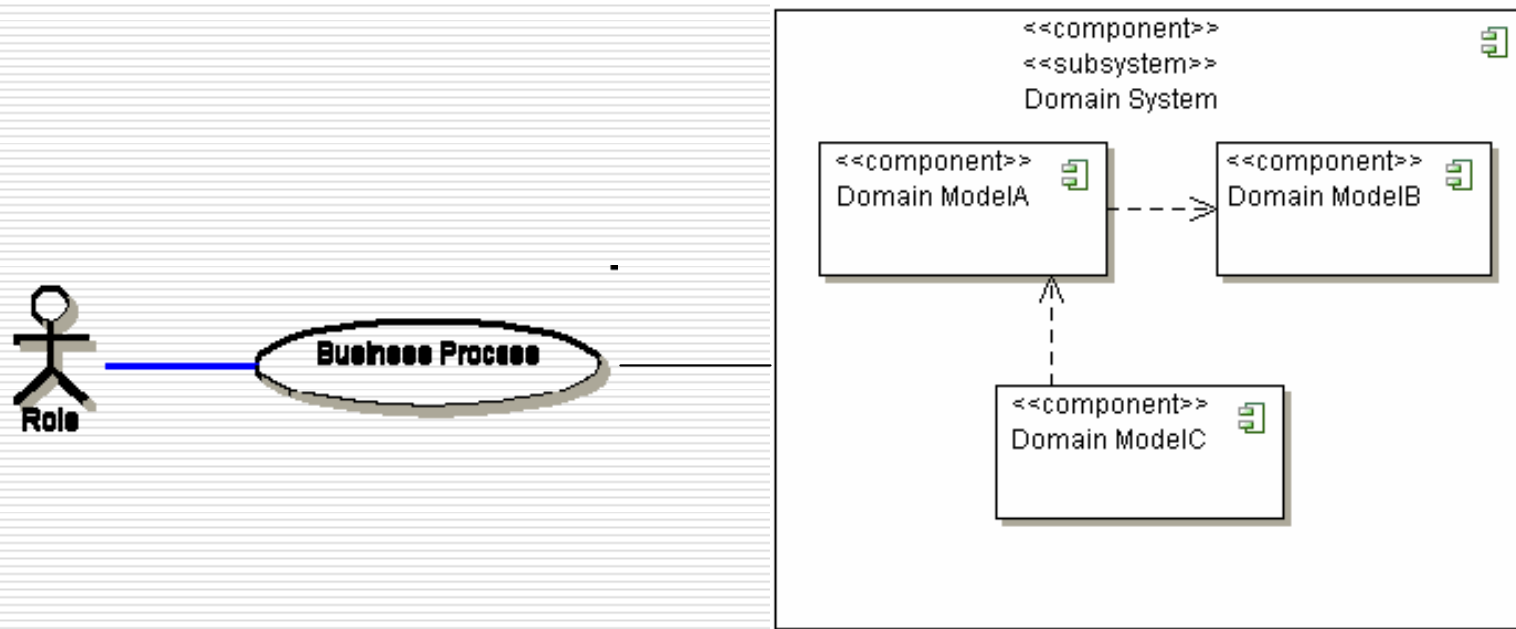
# Lightweight J2EE

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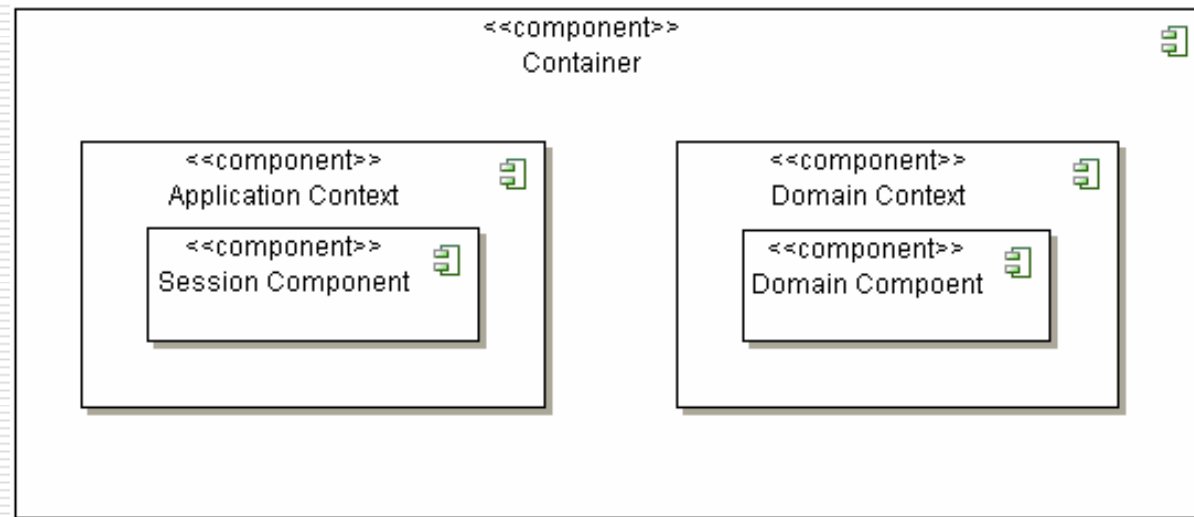
# Lightweight J2EE

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# Lightweight J2EE

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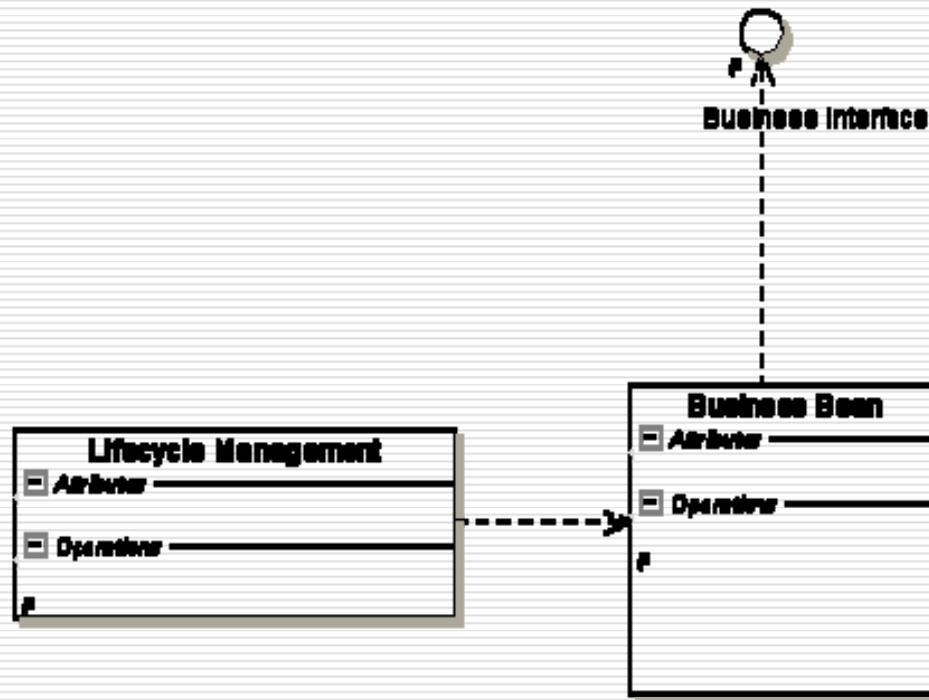
# Lightweight J2EE

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- Session Component
    - Use Case Modeling
    - Stateful and Stateless
    - Synchronization and Asynchronous
  - Domain Component
    - Domain Modeling
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# Lightweight J2EE — Component Model

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# Thanks

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