



J2EE Center of Excellence

J2EE Full Service Consulting

MindTelligent's Centers of Excellence (C o E) are bodies that focus on extending our delivery competence around specific and focused technology areas.

J2EE Center of Excellence has been established at MindTelligent with the objective to: "Partner with Customer to realize business benefits through effective adoption of J2EE Technology"

Over the years of research, MindTelligent has developed processes for fast track development in the J2EE Technology, which help us to expedite architecture, design and development custom J2EE applications for our clients.

How We Do IT

We partner with corporations like yours who are interested in subcontracting the partial or inclusive J2EE projects to us. We in-turn work on a fixed pricing model for you and deliver success!!!

Those Who Benefited From This Relationship

- ✓ California Department of Motor Vehicles.
- ✓ California Department of Justice.
- ✓ Simas Design and Floor
- ✓ Customerlink Systems
- ✓ DST Innovis
- ✓ Tritstrata, Inc.



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What Does a Typical J2EE Development Process Include?

- ✓ Project Management
 - Project Plan using Microsoft Project
 - Project Charter
 - Project Initiation Document
 - Project Team
 - Skills and Equipment needed

- ✓ Use Case Documents
 - Use Cases or Requirements
 - Use Case Model
 - UML Components

- ✓ Architecture and Design Document
 - Architecture flow
 - Component Model
 - System Architecture
 - Data Communication Model
 - Design
 - Object Model
 - Class Model
 - Sequence Diagrams
 - Package Model
 - Build
 - ANT
 - Maven
 - Configuration Management
 - CVS
 -
 - Deployment on Application Servers
 - Middle Tier

- ✓ Implementation Build
 - Java /J2EE Code (Hibernate, Struts, SOA, XML, Spring)
 - Build Scripts
 - UI
- ✓ Unit Test Plan
- ✓ System Test Plan
- ✓ Acceptance Test Plan
- ✓ Knowledge Transfer



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Methodology

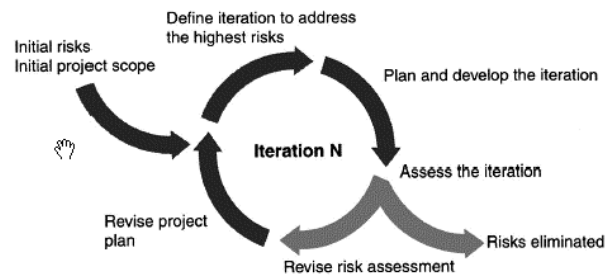
MindTelligent, Inc. uses the Iterative-Incremental Development methodology. An iterative life cycle is based on successive enlargement and refinement of a system through multiple development cycles of analysis, design, implementation and testing.

The system grows by adding new functions within each development cycle. After a preliminary Plan and Elaborate phase, development proceeds in a Build phase through a series of development cycles.

Each cycle tackles a relatively small set of requirements, proceeding through analysis, design, construction, and testing. The system grows incrementally as each cycle is completed.

Advantages of iterative development include:

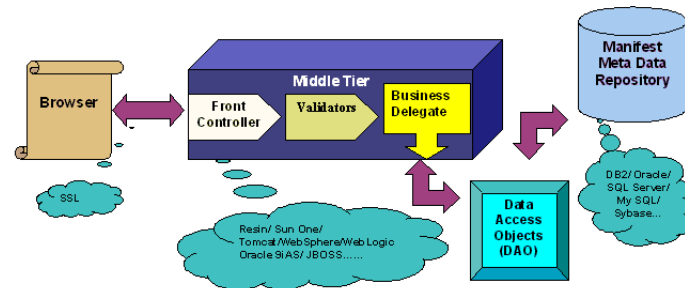
- The complexity is never overwhelming.
- Early feedback is generated, because implementation occurs rapidly for a small subset of the system.





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Architecture of J2EE Solutions (MVC Approach)



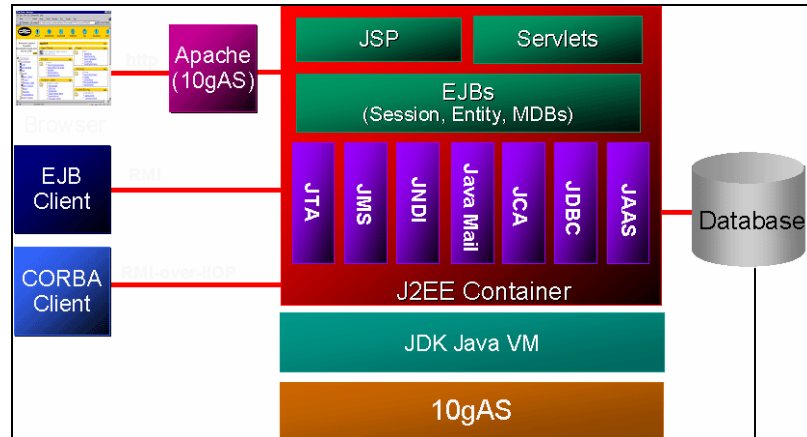
The project architecture is based on Java / J2EE Technologies. The architecture is based on the classic three tier, Model-View-Controller (MVC) Framework and makes best use of world class design patterns like the Front Controllers, Business Delegates, Patterns etc. The Front end uses the Struts Framework.

The Model-View-Controller (MVC) architecture organizes an interactive application design by separating data presentation, data representation, and application behavior. The Model represents the structure of the data in the application, as well as application-specific operations on those data. A View (of which there may be many) presents data in some form to a user, in the context of some business function. A Controller translates user actions (mouse motions, keystrokes, words spoken, etc.) and user input into business method calls on the Model, and selects the appropriate View based on user preferences and Model state. Essentially, a Model abstracts application state and functionality, a View abstracts application presentation, and a Controller abstracts application behavior in response to user input.



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Typical J2EE Deployment



WEB & APPLICATION SERVER

- ✓ Tomcat/Apache
- ✓ Oracle10g AS
- ✓ WebLogic
- ✓ WebSphere
- ✓ JBOSS

Database Repository

- ✓ Oracle
- ✓ DB2UDB
- ✓ MySQL
- ✓ Sybase
- ✓ PostgreSQL