

RedBush Technologies

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J2EE Training

EJB Training Course Prerequisite

- Core Java

EJB Training Course Duration

- 45 Working days, daily one and half hour

EJB Training Course Overview

RMI-Remote Method Ivocation

- Java Distributed Technology
- RMI Architecture
- Dynamic / Bootstrap Clients
- Object Passing in RMI
- DGC
- Activation
- RMI -IIOP

J2EE Introduction **J2EE** Architecture,Comparison between **J2EE&.NET**,**J2EE** Application development roles.
EJB – Enterprise Java Beans

- Introduction
- Comparison between different Distributed tech (EJB, CORBA, COM/DCOM)
- EJB Architecture
- EJB Container
- Stateless Session Bean
- Statefull Session Bean
- Bean Managed Entity Bean (Container Managed Entity Bean, Bean Managed Security)
- Container Managed Security
- Bean Managed Transactions
- Container Managed Security
- Bean Managed Transactions
- Container Managed Transactions
- Clusters
- Using JDBC Connection Pool in EJB

EJB 2.0

- Local Enterprise Beans
- CMP2.0 model – Container Managed Persistency
- EJBQL – EJB Query Language
- EJB Select Methods
- Finder Methods with EJBQL
- CMR – Container Manager Relationships
- MDB-Message Driven Bean

EJB 2.1

- Enhancements to EJB –QL
- Timer Service
- Web services Support to SLSB

EJB 3.0

- Introduction to EJB 3.0
- Architecture of EJB 3.0
- Session Beans in EJB 3.0
- Stateless Session Bean
- Stateful Session Bean
- Entity Components + JPA 1.0
- Simplified packaging on context dependency injection (CDI)
- JPA-Java persistence API
- Relations with Entities
- one-to-one
- one-to-many
- many-to-one,
- many-to-many
- inheritance with Entities
- JPQL-Java Persistence Query Language
- Message Driven Bean in EJB 3.0
- Transaction with EJB 3.0
- AOP in EJB 3.0
- AOP – Aspect oriented programming
- Exposing EJB 3.0
- Stateless Session Bean as Web Service

EJB 3.1

- Introduction of 3.1
- Removal of local business interface
- Introduction of singletons
- Asynchronous Session Beans
- Embeddable API for executing EJB in Java SE env

JTS/JTA-JavaTransaction Service / Java Transaction API

- ACID(Atomicity , Consistency, Isolation, Durability) properties
- When to use Transactions
- Local
- Transactions
- Distributed Transactions
- Flat Transactions
- Nested Transactions
- Chained Transactions
- Two- phase Commit Protocol

JNDI-Java Naming & Directory Interface

- JNDI Architecture, Programming with JNDI, JNDI Security.

JAAS (Java Authentication and Authorization Service)

JMS 1.1 (Java Messaging Service)

Java Mail 1.3

XML (extensible markup Language)

- Introduction
- Need of XML in application architectures
- DTD (Document Type Definition)
- XML Parsers – SAX (Simple API for XML)

- DOM (Document Object Model)
- using IBM's XML4J
- parser
- XML Schemas
- XML DB Utility (XML SQL Utility)

XSL

- XSL tags
- using apache szian's XSLT engine for transformation
- X path specifications
- X path expressions

JAXP 1.2 (Java API for XML Parsing)

Web Services

- SOAP 1.1 (Simple Object Access Protocol)
- UDDI 2.0 (The Universe Description, Discovery and Integration)
- WSDL 1.1(Web Services Description Language)
- JAX-RPC 1.1(Java API for XML Remote Procedure Call)
- SAAJ 1.2 (SOAP with Attachments API for Java)
- JAXR (Java API for XML Registration)
- JAXB (Java Architecture for XML Binding)
- JAXWS (Java API for XMLWebservices)

J2EE Design Patterns

Servers

- Weblogic 10.0
- IBM Websphere 6.0
- J Boss
- Sun one Application Server 9.1
- Oracle 9i Application Server
- Pramati
- Glass Fish

IDE'S

- My Eclipse
- J Builder
- IntelliJ
- Net Beans
- Weblogic Workshop
- EXADEL Studio
- WSAD

TOOLS

- Build – ANT
- Logging – Log 4j