

Java EE – Distributed Applications and EJB

- **Remote Method Invocation (RMI)**
 - Object Persistence and Serialization
 - Introduction to Distributed Computing
 - RMI Architecture
 - Importance of RMI Registry
 - Developing Simple RMI application
 - Callback Implementation in RMI
- **CORBA**
 - Introduction to CORBA
 - CORBA for Distributed computing
 - ORB & IIOP
 - Interface Definition Language (IDL)
- **Java EE Application**
 - Java EE Architecture
 - Introduction to Java EE Components, Containers and Connectors
 - Java EE Modules (Web App, EJB JAR, App Client)
 - Structure of Java EE Application (Enterprise Archive)
 - Packaging and Deploying Java EE Applications
- **JNDI**
 - Introduction to Naming Services
 - JNDI as Java API to Naming Services
 - Using JNDI
- **JDBC Extension**
 - javax.sql package (Extension to JDBC)
 - DataSource and Connection Pool
 - Using JDBC and JNDI
- **Enterprise JavaBeans [EJB 3.0]**
 - Introduction to Server-Side Components
 - EJB Design Goals and Roles
 - EJB Architecture
 - Simplified EJB 3.0 API
 - Metadata Annotations in place of XML
 - RMI over IIOP
 - Types of EJB
 - Session Bean
 - MessageDriven Bean
 - Entity Bean
 - EJB Container Services
 - Transactions
 - Security
 - Life Cycle Management
 - State and Persistence of EJB
 - **Session Beans**
 - Role of Business Interface
 - Remote and Local Interfaces
 - Session Bean Lifetime
 - Developing Stateless Beans
 - Developing Stateful Beans
 - Standalone and Web Clients
- **Java Persistence API (JPA)**
 - Designing Persistent Class
 - Entity Fields and Properties
 - Entity Instance Creation
 - Primary Keys and Entity Identity
 - Entity Relationships
 - Entity Operations
 - Entity Manager
 - Entity Instance Life Cycle
 - Persistence Context
 - Query API
 - Query Language
- **Java Transaction Management (JTA)**
 - The ACID Test for Transactions
 - Introduction to JTS & JTA
 - Container-Managed Transactions
 - Bean-Managed Transactions
 - Transaction Attributes
 - Using JTA
- **Security Model**
 - Role-Driven Access Control
 - Security Identity
 - Security and the Deployment Descriptor
 - Using Security Roles
 - Accessing Security Information via EJBContext
 - Using JAAS to access secure EJB
- **Java Message Service (JMS)**
 - Introduction to Messaging Systems
 - Benefits of using JMS
 - Pub/Sub Model
 - Point-to-Point Model
 - Message Formats, Headers & Properties
 - How JMS fits into EJB system
 - Developing Message Driven Beans (MDB)
- **Web Services**
 - Introduction to Web Services
 - Service Oriented Architecture
 - Architecture and Advantages
 - SOAP Significance
 - WSDL Importance
 - Web Service Annotations
 - Implementing a Web Service
 - Java API for XML Web Services (JAX-WS)
 - Writing a Web Service Client

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