

Price: R2,500.00 excl. VAT
Duration: 1 day
Code: JEEOV

JEE: A Management Overview

Description

Java Enterprise Edition (JEE) is a collection of technologies for the Java platform that is designed to support large, complex software systems in a corporate environment. This seminar is for companies and individuals who are starting to use JEE and need an overview of the JEE architecture. The seminar will show you how all the technologies fit together, so that you can better understand their use.

Objectives

After you have completed the JEE Overview seminar, you will be able to:

- Understand the concepts of distributed computing and component-based architectures.
- Understand the JEE architecture and choose appropriate JEE technology.
- Understand the role of web services in distributed computing.

Intended Audience

You should attend this JEE Overview seminar if:

- You are a programmer or system architect and you want a high-level understanding of the JEE environment.
- You are a project or programme manager, and you want a high-level understanding of the JEE environment.
- You are a technical manager and you want to evaluate the role of JEE for your organisation.

Prerequisites

There are no prerequisites for the JEE Management Overview seminar. A familiarity with the Java language will, however, be of great benefit.

Course Contents

Distributed Computing Overview

- Monolithic software development.
- Client-server model.
- Multi-tier development.
- Origins of and need for distributed computing.
- Component-based architectures and JEE containers.
- CORBA and Java IDL.
- RMI and RMI-IIOP
- Web Services: SOAP vs RESTful.

JEE Application Servers and Containers

- JEE Application Servers (JAS).
- Servlet and EJB containers.
- IoC/DI containers.
- Container Services.

JEE Technology, Container Services and APIs

- Servlets and Java Server Pages (JSP).

- Enterprise JavaBeans (EJB).
- Java Naming and Directory Interface (JNDI).
- Remote Method Invocation (RMI)
- RMI-IIOP (RMI over Internet Inter-ORB Protocol).
- Java Database Connectivity (JDBC).
- Java Persistence API (JPA).
- Java Transaction API (JTA) and Transaction Service (JTS).
- Java Message Service (JMS).
- JavaMail and Java Activation Framework (JAF).
- JEE Connector Architecture (JCA).
- Java Authentication and Authorization Services (JAAS).

The Role of Java Servlets and Java Server Pages (JSP)

- Static vs dynamic pages.
- HTTP requests, responses, cookies and sessions.
- Usage of servlets and JSP pages.
- JSP Standard Tag Library (JSTL).
- JavaBeans and the MVC architecture.
- Web development frameworks e.g. JSF, Struts, Wicket

The Role of EJBs

- EJBs as the core of a JEE application.
- EJB2 versus EJB3.
- Session beans as business processes.
- Message-driven beans as decoupled business processes.
- Entity beans as core business data.
- JPA as the heart of EJB3 persistence.

*** The lecturer reserves the right to modify the contents of the course to suit the needs of the delegates.*