

OJAV-11 - ARCHITECT ENTERPRISE APPLICATIONS WITH JAVA EE

Categoria: **Java**

INFORMAZIONI SUL CORSO



Durata:
5 Giorni



Categoria:
Java



Qualifica Istruttore:
Oracle Certified
Professional



Dedicato a:
Sviluppatore



Produttore:
Oracle

OBIETTIVI

- Fare buon uso delle tecnologie componenti Java EE per risolvere i problemi tipici di architettura del sistema
- Derivazioni di sistemi software utilizzando le tecniche delineate nel Blueprint Java EE e le soluzioni definite nei Java EE Patterns
- Affrontare i requisiti di Quality-of-service in un modo economicamente efficace utilizzando tecniche ingegneristiche di trade-off
- Descrivere il ruolo dell'architetto e dei suoi prodotti
- Elencare e descrivere i problemi tipici associati ai grandi sistemi aziendali

PREREQUISITI

Prerequisiti obbligatori:

- Descrivere il distributed computing e i concetti della comunicazione
- Descrivere tutte le tecnologie Java EE, incluse: Enterprise JavaBeans, servlets, JavaServer Pages e JavaServer Faces
- Effettuare l'analisi e la progettazione di sistemi software object-oriented
- Utilizzare una notazione, come UML, per la modellazione di sistemi object-oriented
- Analisi e progettazione di sistemi software con l'UML
- Prerequisiti suggeriti :Web Component Development with Servlets & JSPs, Java EE 6Business Component Development with EJB Technology, Java EE 6Java EE 5 Patterns

CONTENUTI

Introducing Enterprise Architecture

- What is Enterprise Architecture?
- An Architect's Roles and Responsibilities

Introducing Fundamental Architectural Concepts

- Distinguish between architecture and design
- Architectural Patterns
- Architectural Deliverable Artifacts
- What is an Enterprise Architecture Framework
- 4 + 1 View Model
- Architectural Modeling Using UML
- Architecture Workflow

What is an Enterprise Architecture Framework

Developing a Security Architecture

Analyzing the Impact of Security in Distributed Computing

Examining Security in the Java EE Technology

Understanding Web Services Security

Understanding Non-Functional Requirements

Examining Non-Functional Requirements (NFRs)

Common Practices for Improving Qualities

Prioritizing Quality-of-Service (QoS) Requirements

Inspecting QoS Requirements for Trade-offs

Defining Common Problems and Solutions: Risk Factors and System Flexibility

Identifying Risk Factors

Designing a Flexible Object Model

Defining Common Problems and Solutions: Network, Transaction and Capacity Planning

Describing Network Communication Guidelines

Justifying the Use of Transactions

Planning System Capacity

Java EE 6 Overview

Java EE 6 Goals

Java EE Containers

Classic Java EE 5 Architecture

Impact of Java EE 6 on Architecture

Developing an Architecture for the Client Tier

Client Tier Development Roles

Information Architecture Client Concerns

Selecting User Interface Devices and Technologies

Discovering Reusability in the Client Tier

Deployment Strategies for the User Interface

Security Concerns in the Client Tier

Testing

Developing an Architecture for the Web Tier

Responsibilities of the Web Tier

Separation of Concerns

Comparing Web Tier Frameworks

Providing Security in the Web Tier

Scaling the Web Tier

Developing an Architecture for the Business Tier

Business Tier Technologies

Architecting the Domain Model

Development Best Practices

Developing an Architecture for the Integration and Resource Tiers

Examining Enterprise Information System Integration

Reviewing Java Integration Technologies

Applying Integration Patterns

Examining Service-Oriented Architecture (SOA)

Evaluating the Software Architecture

Evaluating Software Architectures

Evaluating Java EE Technologies

Creating System Prototypes

Selecting Servers and Frameworks

INFO

Materiale didattico: Materiale didattico ufficiale Oracle in formato digitale. Il materiale didattico è compreso nel prezzo sia per i corsi a Calendario sia per quelli Dedicati.

Costo materiale didattico: 0 € incluso nel prezzo del corso a Calendario

Natura del corso: Operativo (previsti lab su PC)