

OJAV-6 - DEVELOPING APPLICATIONS WITH JAVA EE 6 ON WEBLOGIC SERVER 12C

Categoria: **Java**

INFORMAZIONI SUL CORSO



Durata:
5 Giorni



Categoria:
Java



Qualifica Istruttore:
Oracle Certified
Professional



Dedicato a:
Sviluppatore



Produttore:
Oracle

OBIETTIVI

Utilizzare il Java EE Web Profile
Sviluppare ed eseguire un'applicazione EJB
Sviluppare classi di entità base in Java
Persistence API per consentire l'accesso al database
Sviluppare una interfaccia web-based utente utilizzando JSF,
Servlet e JSPEffettuare il design di applicazioni con CDI
Utilizzare IDE e Application Server per lo sviluppo in Java
EE
Creare applicazioni web mobile
Convalidare i dati utilizzando Bean Validation
Creare applicazioni aziendali
sicure
Utilizzare la registrazione
Installare Oracle WebLogic Sever 12c

PREREQUISITI

Prerequisiti obbligatori:

Familiarità con HTML e CSS
Familiarità con la teoria dei database relazionali e le nozioni di base del linguaggio SQL (Structured Query)
Familiarità con l'uso di un IDE
Esperienza con il linguaggio di programmazione Java
Aver frequentato il corso Java SE 7 Programmazione

Prerequisiti suggeriti:

Java SE 7: Sviluppo di applicazioni Rich Client

CONTENUTI

Java Platform, Enterprise Edition

Describe the purpose of the Java EE Platform
Describe the needs of enterprise applications
List the various Java EE specifications
Compare services and libraries
Describe the Java EE Web Profile
Describe the EE application tiers and layers

Enterprise Development Tools and Application Servers

Describe the purpose of an application server
Identify the potential selection criteria used when choosing an application server
Install the Oracle WebLogic Server 12c Zip Distribution
Describe the properties of Java EE components
Describe the process of developing a Java EE application

Describe how to configure and package Java EE applications

List EE supporting features provided by integrated development environments (IDEs)

JavaBeans, Annotations, and Logging

Describe the Java SE features that are used extensively in enterprise applications

Create POJO JavaBeans components

Log application activity and errors

Write to server logs

Describe common Java SE annotations and features

Develop Java annotations

Describe the role of annotations in Java EE

Web Component Model

Describe the HTTP request-response model

Define the difference between Java Servlets, JSP, and JSF components

Implement application layering and the MVC Pattern

Avoid thread safety issues in web components

Use the Expression Language

Developing with JavaServer Faces Technology

Evaluate the role of JavaServer Faces (JSF) technology as a presentation mechanism

Describe the flow of the JSF life cycle

Author JSF pages using Facelets

Process form submissions and use JSF managed beans

Describe the use of JSF tag libraries

Use the appropriate annotation to control the scope of a bean instance

Use a component to iterate over values in a collection

Using AJAX and Composite Components with JSF

Define Asynchronous JavaScript and XML (AJAX)

Describe how JSF Components can be enhanced with AJAX

Use the tag

Describe how AJAX request integrates with the JSF life cycle

Define a composite component

Create a JSF composite component

Apache Trinidad JSF Component Library and Mobile Development

Create JavaServer Faces (JSF) pages that use Apache Trinidad components

Create a JSF-based mobile application

Dynamically apply Cascading Style Sheets (CSS) with Trinidad Skinning

Use the HTML5 video tag

Dependency Injection With CDI

Create managed bean compatible classes

Inject managed beans

Qualify the bean being requested at an injection point

Use CDI alternatives

Using JSF and Bean Validation

Define the approach JSF uses to convert and validate input data

Use built-in validation constraints provided with JSF

Use built-in validation constraint annotations provided by Bean Validation

Create a custom Bean Validation constraint

Developing Servlets

- Describe the servlet API
- Use the request and response APIs
- Set response headers
- Create text and binary response bodies
- Process file uploads using servlets
- Forward to JSPs using RequestDispatcher
- Use the session management API

Developing with JavaServer Pages Technology

- Evaluate the role of JSP technology as a presentation mechanism
- Author JSP pages
- Process data received from servlets in a JSP page
- Describe the use of tag libraries

EJB Component Model

- Describe the role of EJB components in a Java EE application
- Describe the benefits of EJB components
- Describe the operational characteristics of a stateless, stateful, and singleton session beans
- Create session beans
- Create session bean clients

The Java Persistence API

- Describe the role of the Java Persistence API (JPA) in a Java EE application
- Explain the basics of object-relational mapping
- Describe the elements and environment of an entity component
- Describe the life cycle and operational characteristics of entity components

Implementing a Transaction Policy

- Describe transaction semantics
- Compare programmatic and declarative transaction scoping
- Use JTA to scope transactions programmatically
- Implement a container-managed transaction policy
- Support optimistic locking with the versioning of entity components
- Support pessimistic locking using EntityManager APIs
- Describe the effect of exceptions on transaction state

Web Service and Integration Technology Survey

- Describe the purpose of integration technologies
- Define the integration layer in a multilayered application architecture
- List various Java EE integration technologies
- Describe the benefit of Web Services over other integration technologies

Implementing a Security Policy

- Leverage container-managed security
- Define user roles and responsibilities
- Create a role-based security policy
- Using Declarative Security
- Configure authentication in the web tier

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

Prezzo manuale: 0 € incluso nel prezzo del corso a Calendario

Natura del corso: Operativo (previsti lab su PC)