

Java Training: JEE Web Application Development (JWDEV, 4 jours)

Description

The course JEE Web Application Development (Java Training) covers modern web application development using Enterprise Java. The course starts with a review of Enterprise Java before diving into the creation of Servlets, Filters, JSP, views, view models, controllers, custom tag libraries & Java Server Faces. Students are introduced to security, JNDI, JDBC and enterprise patterns such as MVC.

Tarifs

- Tarification: \$3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

OVERVIEW OF JEE

Java Platforms

Characteristics of Enterprise Computing

JEE Technologies

Multi-Tier Architectures

Advantages of Multi-Tier Architectures

Container-Based Approach

JEE Application Models

INTRODUCTION TO WEBLOGIC

Server Overview

Server Directory Structure

Starting and Stopping the Server

Command Line Utilities

Other Administrative Commands

Scripting Tools

Administration Console

CREATING SERVLETS

A Simple Servlet

Web Applications

Configuring Servlets

Running the Servlet in WebLogic

Dynamic Reloading of Servlets

Servlet Initialization Parameters

Servlets and Threads

Cookies and Sessions

Session Ids and Management

Session Management Example

Invalidating Sessions

JAVASERVER PAGES

JavaServer Pages

A Simple JSP

Running the JSP Examples

JSP Syntax and Directives

Configuring JavaServer Pages

JSP Actions

JSP Example with Forwarding

Creating Controls

JavaServer Pages and JavaBeans

JSP with JavaBean Example

CUSTOM JSP TAGS

Using Custom Tags

Types of Tags

Defining Tags

The tag Element

Simple Tags

Tags with Attributes

Including the Tag Body

Optionally Including the Body

Including the Body Multiple Times

About Struts and Page Flows

SECURING WEB APPLICATIONS

JEE Application Components

HTML Form for Survey Application

HTML Code for Survey Form

Servlet Code for the Survey Application

JavaBean Class for the Survey Application

Creating a Web Archive (.war) File

JEE Security

Users and Groups

Adding Users in the Administration Console

Authentication

Configuring Authentication for Web Applications

Authorizing Access to Resources in a Web Application

Web Application Security : Example

JAVA NAMING AND DIRECTORY INTERFACE

What is JNDI?

Benefits of JNDI

Naming and Directory Services

Using JNDI

Context Operations

JNDI Utility Class

JNDI Example

Running the JNDI Example

Naming Exceptions

DATABASE ACCESS USING JDBC

A Simple JDBC Program

JDBC Driver Types

Connection Pools

JDBC Data Sources

Data Source Example

Configuring JDBC Data Sources

Running the Data Source Example

Using JDBC in a Servlet

Using JDBC in a JSP

DESIGN CONCEPTS FOR WEB APPLICATIONS

Architecture and Design

Tiered Architectures

Model-View-Controller Architecture

JEE Design Patterns

Composite View Pattern

Composite View Strategies

View Helper Pattern

Front Controller Pattern

Intercepting Filter Pattern

SERVLET FILTERS

What is a Filter?

Sample Filter

The Filter API

Initializing Filters

Blocking the Response

Modifying the Response

Running the Examples

Java Struts Page FLOws

Model 1 versus Model 2 Architecture

Implementing MVC

Implementing the View

Implementing the Model

Implementing the Controller

Using Beehive Tags

Struts and Page Flows

Exploring BEA WebLogic Page Flows

JAVASERVER FACES

What is JavaServer Faces?

Software Development Roles

JSF Components

Component Methods

Component Model

Events

Validators and Converters

Request Processing Lifecycle

Resource Bundles

JavaBean Class

Settings in web.xml

The faces-config.xml file