

Kurs: SL-314-EE5**Web Component Development with Servlet and JSP Technologies****(SL-314-EE5)****Ziel:**

Write servlets using the Java programming language (Java servlets)
Create robust web applications using Struts, session management, filters, and database integration
Write JSP pages
Create easy to maintain JSP pages using the Expression Language, JSP Standard Tag Library (JSTL), and the Struts Tiles framework
Create robust web applications that integrate Struts and JSP pages

Übersicht:

JavaServer Pages (JSP page) technology and servlets are the key web-tier technologies defined in the Java Platform, Enterprise Edition (Java EE platform). The Web Component Development With Servlet and JSP Technologies course provides experienced developers of Java technology applications the knowledge and skills to quickly build web applications from JSP page and servlet technologies using the Sun Java System Application Server, and the Apache Struts framework. Students are exposed to the current methods for analyzing, designing, developing, and deploying web applications with Java technologies. Lab exercises provide students with experience in constructing and deploying the small-to-medium scale web applications found in intranet and low-volume commercial sites. The course features the Java EE 5 technology, and uses the Java EE 5 SDK. The students perform the lab exercises using the NetBeans Integrated Development Environment (IDE) 5.5. This course is also an ideal method of preparing for the revised Sun Certified Web Component Developer (SCWCD) for Java EE 5 certification examination. However, an SCWCD candidate should also spend six months building web applications using the JSP page and servlet technologies before taking the exam.

Erforderliche Vorkenntnisse:

Write Java technology applications, demonstrating significant programming ability
Integrate existing Java code (for example, reuse existing classes created by other team members)
Design Java technology applications
Functionally describe the benefits of an n-tier architecture
Write a web page using HTML

Im Vorfeld

FJ-310: Entwickeln J2EE-kompatibler Anwendungen (FJ-310)
SL-275: Java-Programmierung (SL-275)
SL-285: Workshop zur Programmiersprache Java (SL-285)
WJTB-310: Übersicht über die J2EE-Plattform für Manager (WJTB-310)

Teilnehmerkreis:

Developers with skills equivalent to that of a Sun Certified Java Developer, who are creating web components (such as servlets and custom tags), can benefit. This is not a course for web page designers using Hypertext Markup Language (HTML), JavaScript technology, or other web presentation technologies.

Inhalt:

Introduction to Web Application Technologies
Describe web applications
Describe Java Platform, Enterprise Edition 5 (Java EE 5)
Describe Java servlet technology
Describe JavaServer Pages technology
Define three-tier architecture

Define Model-View-Controller (MVC) architecture

Developing a View Component

- Design a view component
- Describe the Hypertext Transfer Protocol
- Describe the web container behaviour
- Develop a simple HTTP servlet
- Configure and deploy a servlet

Developing a Controller Component

- Design a controller component
- Create an HTML form
- Describe how HTML form data is sent in an HTTP request
- Develop a controller servlet
- Dispatch from a controller servlet to a view servlet

Developing Dynamic Forms

- Describe the servlet life cycle
- Customize a servlet with initialization parameters
- Explain error reporting within the web form
- Repopulating the web form

Sharing Application Resources Using the Servlet Context

- Describe the purpose and features of the servlet context
- Develop a servlet context listener to initialize a shared application resource

Designing the Business Tier

- Describe the Analysis model
- Design entity components
- Design service components

Developing a Web Application Using Struts

- Design a web application using the Struts MVC framework
- Develop a Struts action class
- Configure the Struts action mappings

Developing Web Applications Using Session Management

- Describe the purpose of session management
- Design a web application that uses session management
- Develop servlets using session management
- Describe the cookies implementation of session management
- Describe the URL-rewriting implementation of session management

Using Filters in Web Applications

- Describe the web container request cycle
- Describe the Filter API
- Develop a filter class
- Configure a filter in the web.xml file

Integrating Web Applications With Databases

- Map sample data structure into database entities
- Design a web application to integrate with a DBMS
- Configuring a DataSource and Java Naming and Directory Interface (JNDI) API

Developing JSP Pages

- Describe JSP page technology
- Write JSP code using scripting elements
- Write JSP code using the page directive
- Write JSP code using standard tags

Write JSP code using the Expression Language (EL)
Configure the JSP page environment in the web.xml file

Developing JSP Pages Using Custom Tags

Describe the Java EE job roles involved in web application development
Design a web application using custom tags
Use JSTL tags in a JSP page

Developing Web Applications Using Struts Action Forms

Describe the components in a Struts application
Develop an ActionForm class
Develop a JSP page for a View form
Configure the View forms

Building Reusable Web Presentation Components

Describe how to build web page layouts from reusable presentation components
Include JSP segments
Develop layouts using the Struts Tiles framework

Dauer:
5 Tage

Preis:
Die Kursgebühr pro Teilnehmer beträgt € 2400,- zzgl. Mehrwertsteuer.

Anmerkung: Kurssprache deutsch, Unterrichtsmaterial überwiegend in englischer Sprache.

Anmeldung per Fax 02302 / 91421-21

Oder schriftlich an:

**CNS
Computer Network Systems GmbH
Wullener Feld 9
58454 Witten**

Ja, hiermit melde ich mich verbindlich zu folgenden Seminaren an:

Seminarartikel

Veranstaltungsort und Datum

Teilnehmer:

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Name, Vorname des Teilnehmers

Name, Vorname des Teilnehmers

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Und so melden Sie sich an:

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Mehr Informationen:

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