

Java wird in allen IT-Bereichen eingesetzt und ist für die Entwicklung von Applikationen für unzählige Betriebssysteme und Plattformen, vom mobilen Telefon bis hin zur Echtzeit-Großrechneranlage geeignet.

Ihr Nutzen

Der Teilnehmer lernt das Anwenden von Tools und Libraries für die Erstellung von Erstellen von Web-Komponenten aus JavaServerPages und Java Servlet-Erweiterungen. Die Teilnehmer erlernen die optimalen Verfahren für das Analysieren, Entwerfen, Entwickeln, Testen und Bereitstellen von Web-Anwendungen mit Java-Technologien.

Preis pro Teilnehmer

EUR 2200,- exklusive der gesetzlichen MwSt.

Seminardauer

5 Tag(e)/Day(s)

Seminarinhalte

1. Tag

- * Introduction to Java Servlets
- Describe web applications, CGI, and the role of Java
- Describe benefits of Java servlet technology
- Create a simple Java Servlet
- Define three-tier architecture
- Define Model-View-Controller (MVC) architecture
- * Introduction to Java Server Pages
- Describe why Servlets are not the whole solution
- Describe essentials of JSPs
- Understand the fundamentals for MVC architecture

2. Tag

- * Implementing an MVC Design
- Code a controller using a servlet
- Code a view using a JSP
- Forward control from a servlet to a JSP
- Fundamentals of EL (Expression Language)
- Implement a simple MVC system
- * The servlet's environment
- Understand more details of the HTTP protocol
- Fundamentals of HTML forms, HttpServlet and related APIs
- Write code that manages client sessions and cookies

3. Tag

- * Container facilities for servlets and JSPs
- Purpose and structure of deployment descriptors
- Control context root and servlet mapping
- Create and use context and init parameters
- Use annotations to configure servlets
- * More view facilities
- The four data scopes
- Dot and array access operators with Java Beans
- arrays, and collections, EL implicit objects
- Create and use arithmetic expressions in EL

* Developing JSP pages

- JSP scripting elements, declarations and directives
- Use JSP implicit variables
- jsp: tags
- * Developing JSP pages using custom tags
- Recognize correct syntax for tags
- Configure a JSP to use tags from the JSTL
- Write JSP code using several standard tags
- List capabilities of JSTL tags

4. Tag

Voraussetzungen

Fundamentals of the Java Programming Language~4272
Grundkenntnisse in HTML~1222t

oder dem entsprechende Kenntnisse

Hinweise

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Version:

- * More Controller facilities
- Understand the servlet lifecycle
- advanced elements of the servlet APIs
- Create filters and use them in web applications
- * More options for the Model
- Understand the roles of JDBC and JPA
- Understand the many elements that make up the model
- Fundamentals of connecting to a database using JDBC or JPA
- 5. Tag
- * Asynchronous web applications
- AJAX-style client side programming
- Implement asynchronous servlets
- * Web application security
- Understand the role of the container in security
- Authentication models, Encryption
- JAAS, pluggable/extensible authentication

