Developing Java Web Applications

Objectives :

This course will help you to build upon your background knowledge in Java and gain the essential skills you need to develop Web components in an enterprise environment. Additionally, the course offers you a job-related approach to the Web application development process. Finally, it provides you with the basic expertise required to develop functionally sound and efficient Java 2 Enterprise Edition Web components.

Prerequisites:

To ensure your success in this course, we recommend that you take the following Element K courses or have equivalent experience: Java 2: Programming Language; SQL: Fundamentals of Querying; Object-Oriented Programming: Principles; Java 2: Object-Oriented Analysis and Design; Using UMLHTML 4.01: Web Authoring, Level 1 (Second Edition); and XML: An Introduction (Third Edition)

Duration:

Four Days

Additional Information

Course Content can be tailored to clients specific needs

Course Outline

Preparing to Develop J2EE Web Applications	
Structure a Web Application	Access the Database
Configure the Web Application	

Building a Servlet	
Code a Servlet	Send and Receive Information
Access Input Streams to the Web Application	Control Access to Shared Objects
Include Other Resources	Return HTTP Errors
Handle a Servlet Exception	Write to the WebApp Log
Deploy a Servlet	

Building a JSP	
Code a JSP	Write a Directive
Write a Scriptlet	Write a JSP Expression
Write a Declaration	Employ JSP Actions
Deploy a JSP	

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Maintaining Client State	
Manage a Session with the Http Session Interface	Use Hidden Fields
Create a Cookie	Use URL Rewrite
Implement Servlet Event Listening	
Using a JavaBean in a Web Application	
Use a JavaBean	Use a Get Method of a JavaBean
Use a Set Method of a JavaBean	
Creating and Using a JSP Custom Tag Library	
Use the JSP Standard Tag Library	Declare a SimpleTag Handler
Create a Tag File	Create a Tag Library Descriptor
Use Custom Tags	
Applying Security and Filters	
Configure Authentication	Configure Web Authorisation
Program Web Authorisation	Implement a Filter
Using Design Patterns in a Web Application	
Design a J2EE Web Application with the MVC Pattern	Design a J2EE Web Application with the Transfer Object Pattern
Design a J2EE Web Application with the Data Access Object Pattern	Design a J2EE Web Application with the Business Delegate Pattern
Integrating a Web Application with a Database	
Configure the Web Application for JDBC Connectivity	Obtain Connections to a Database
Access a SQL Result Set in J2EE Web Components	Create Connection Pooling