

# Servlets & JSP



## Abstract

Servlets & JSP are the corner-stones of nearly every Java web application.

Servlets are Java classes that can handle HTTP requests, and as such can return web content.

JSPs are a template-based presentation technology for the web.

The course goes into detailed description of the Servlets & JSP technology which are crucial for almost any JEE web-development team. Whether you will later use Struts, JSF or Spring MVC, understanding these fundamentals is a must.

The course focuses on Servlets 2.5 and JSP 2.1 (part of JEE 5).

## Target Audience

Java developers, team leaders and project managers.

## Prerequisites

Familiarity with the Java language.

Familiarity with HTML/Javascript – optional.

## Content:

### Introduction to the WWW (1 hour):

- Overview on the WWW.
- The HTTP Protocol.
- What is a Web Application.

### Servlets Basics (4 hours):

- What is a Servlet?
- Servlets Lifecycle.
- Configuring a Servlet.
- GenericServlet & HTTPServlet.

### JEE Web Applications (3 hours):

- JEE Web Application Structure.
- The Deployment Descriptor.
- Packaging.



**Session Management (2 hours):**

The Problem with Sessions.  
Using Cookies.  
Using URLRewrites.  
The HttpSession.

**Java Server Pages (3 hours):**

Why another Technology?  
JSP Lifecycle.  
Basic Syntax.

**Expression Language (3 hours):**

What is the EL?  
EL Syntax.  
Using EL Variables.

**TagLibs (2 hours):**

Introducing TagLib.  
Using Taglibs.  
Example of writing a Taglib.

**JEE Application (4 hours):**

Working with Events.  
Creating Filters.  
Dispatching with RequestDispatcher.  
Support for Authentication.

**JEE Web Frameworks (2 hours):**

Discussion on the popular JEE web frameworks.

**Duration: 3 days.**