



J2EE Training Syllabus

J2EE - Java 2 Enterprise Edition

Servlets

The Servlet Technology

The Benefits of Servlets

_Servlet Application Architecture

_How a Servlet Works

_The Tomcat Servlet Container

_Six Steps to Running Your First Servlet

Inside Servlets

The javax.servlet Package

A Servlet's Life Cycle

Obtaining Configuration Information

Preserving the ServletConfig

The Servlet Context

Sharing Information Among Servlets

Requests and Responses

The GenericServlet Wrapper Class

Creating Thread-Safe Servlets

Writing Servlet Applications

The HttpServlet Class

The HttpServletRequest Interface

HttpServletResponse

Sending an Error Code

Sending Special Characters

Buffering the Response

Populating HTML Elements

Request Dispatching

Session Management

What Is Session Management?

URL Rewriting

Hidden Fields

Cookies

Session Objects

Knowing Which Technique to Use

Java Server Pages

JSP Basics

What's Wrong with Servlets?

Running Your First JSP

How JSP Works

The JSP Servlet Generated Code

The JSP API

The Generated Servlet Revisited

Implicit Objects

JSP Syntax

Directives

Scripting Elements

Standard Action Elements

Comments

Developing JSP Beans

Calling Your Bean from a JSP Page

A Brief Theory of JavaBeans

Making a Bean Available

Accessing Properties Using `jsp:getProperty` and
`jsp:setProperty`

Setting a Property Value from a Request

JavaBeans Code Initialization

The `SQLToolBean` Example

Enterprise JavaBeans

Introduction to EJB

What Is an Enterprise JavaBean?

Benefits of EJB

EJB Application Architecture

The Six EJB Roles

Types of Enterprise Beans

Writing Your First Enterprise Bean

EJB Explained

Writing Client Applications

Creating a Bean's Instance

The Session Bean

What Is a Session Bean?

Stateful and Stateless Session Beans

Writing a Session Bean

Entity Beans

What Is an Entity Bean?

The Remote Interface

The Home Interface

The Primary Key Class

The Entity Bean

Two Types of Entity Beans

Writing a BMP Entity Bean

Writing a CMP Entity Bean