

Advance Java

Servlet

Basics of Servlet

- ✓ Servlet: What and Why?
- ✓ Basics of Web
- ✓ Servlet API
- ✓ Servlet Interface
- ✓ GenericServlet
- ✓ HttpServlet
- ✓ Servlet Life Cycle
- ✓ Working with Apache Tomcat Server
- ✓ Steps to create a servlet in Tomcat
- ✓ How servlet works?
- ✓ servlet in Myeclipse
- ✓ servlet in Eclipse
- ✓ servlet in Netbeans

ServletRequest

- ✓ ServletRequest methods
- ✓ Registration example with DB

Servlet Collaboration

- ✓ RequestDispatcher
- ✓ sendRedirect

ServletConfig

- ✓ ServletConfig methods
- ✓ ServletConfig example

ServletContext

- ✓ ServletContext methods
- ✓ ServletContext example

Attribute

- ✓ How to set, get and remove example?

Session Tracking

- ✓ Cookies
- ✓ Hidden Form Field
- ✓ URL Rewriting
- ✓ HttpSession

Event and Listener

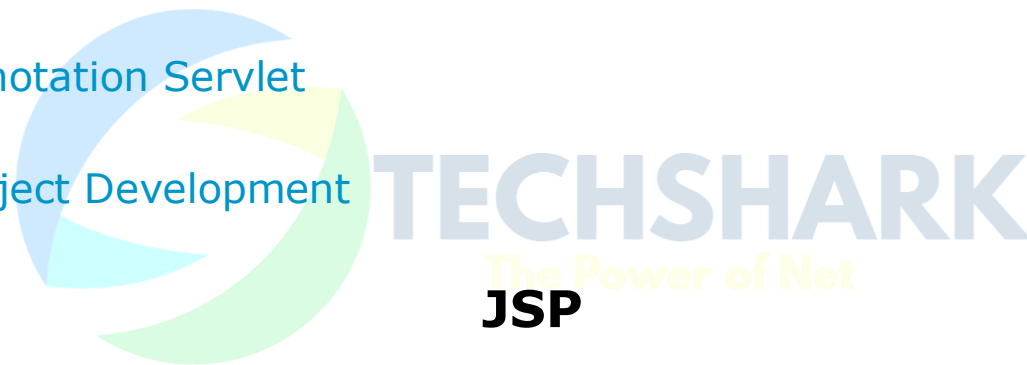
Filter

- ✓ Filter
- ✓ Authentication Filter
- ✓ FilterConfig
- ✓ Useful examples

ServletInputStream and ServletOutputStream

Annotation Servlet

Project Development



Basics of JSP

- ✓ Life cycle of JSP
- ✓ JSP API
- ✓ JSP in Eclipse and other IDE's

Scripting elements

- ✓ scriptlet tag
- ✓ expression tag
- ✓ declaration tag

9 Implicit Objects

- ✓ out
- ✓ request
- ✓ response
- ✓ config
- ✓ application
- ✓ session

- ✓ pageContext
- ✓ page
- ✓ exception

Directive Elements

- ✓ page directive
- ✓ include directive
- ✓ taglib directive

Exception Handling

Action Elements

- ✓ jsp:forward
- ✓ jsp:include
- ✓ Bean class
- ✓ jsp:useBean
- ✓ jsp:setProperty & jsp:getProperty
- ✓ Displaying applet in JSP

Expression Language

MVC in JSP

JSTL

Custom tags

- ✓ Custom Tag : What and Why?
- ✓ Custom Tag API?
- ✓ Custom Tag Example
- ✓ Attributes
- ✓ Iteration
- ✓ Custom URI

Project Development in JSP

JavaMail API

JavaMail API

- ✓ Sending Email
- ✓ Sending email through Gmail server
- ✓ Receiving Email
- ✓ Sending HTML content

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Design Pattern

Design Pattern

- ✓ Singleton
- ✓ DAO
- ✓ DTO
- ✓ MVC
- ✓ Front Controller
- ✓ Factory Method
- ✓ etc.

JUnit

JUnit

- ✓ JUnit: What and Why?
- ✓ Types of Testing
- ✓ Annotations used in JUnit
- ✓ Assert class
- ✓ Test Cases

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Maven
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Maven

- ✓ Maven: What and Why?
- ✓ Ant Vs Maven
- ✓ How to install Maven?
- ✓ Maven Repository
- ✓ Understanding pom.xml
- ✓ Maven Example
- ✓ Maven Web App Example
- ✓ Maven using Eclipse

Struts 2

Basics of Struts2

- ✓ Struts : What and Why?
- ✓ Model1 vs Model2
- ✓ Struts2 Features
- ✓ Steps to create Struts2 application
- ✓ Understanding Action class
- ✓ Understanding struts.xml file

- ✓ Struts2 in Eclipse IDE
- ✓ Struts2 in Myeclipse IDE

Core Components

- ✓ Interceptors
- ✓ ValueStack
- ✓ ActionContext
- ✓ ActionInvocation
- ✓ OGNL

Struts 2 Architecture

Struts2 Action

- ✓ Action Interface
- ✓ ActionSupport class

Struts2 Configuration

- ✓ multi configuration
- ✓ multi namespace

Interceptors

- ✓ Custom Interceptor : Life Cycle of Interceptor
- ✓ params interceptor
- ✓ execAndWait interceptor
- ✓ prepare interceptor
- ✓ modelDriven interceptor
- ✓ exception interceptor
- ✓ fileUpload interceptor

Struts 2 Validation

- ✓ Custom Validation : workflow interceptor
- ✓ Input Validation : validation interceptor
- ✓ Ajax Validation : jsonValidation interceptor

Aware Interfaces

- ✓ ServletActionContext
- ✓ SessionAware
- ✓ Login and Logout Application
- ✓ ServletContextAware

Struts2 with I18N

Zero Configuration

- ✓ By convention
- ✓ By annotation

Struts2 with Tiles2

Hibernate with Struts2

Spring with Struts2

Project Development in Struts2

Working with IDE

IDE

- ✓ Eclipse IDE
- ✓ Netbeans IDE
- ✓ Myeclipse IDE

Working with Servers

Servers

- ✓ Apache Tomcat
- ✓ Glassfish Server
- ✓ JBoss Server
- ✓ Weblogic Server

EJB 3

Introduction to JavaEE

- ✓ The Need for JavaEE.
- ✓ Overview on the JavaEE Architecture
- ✓ 1 tier
- ✓ 2 tier
- ✓ 3 tier
- ✓ N tier
- ✓ JavaEE Key Standards

Introduction to EJB3

- ✓ The EJB Model
- ✓ Key Services of the Application Server

Developing Session Beans

- ✓ Stateless Session Beans
- ✓ Stateful Session Beans
- ✓ Packaging
- ✓ Writing Clients

Using Dependency Injection

- ✓ No More JNDI
- ✓ Injection of EJBContext

JMS

- ✓ JMS Overview
- ✓ JMS Messaging Domains
- ✓ Example of JMS using Queue
- ✓ Example of JMS using Topic

Message Driven Beans

Persistence Introduction to JPA

- ✓ Object Relational Mapping
- ✓ Mapping configurations
- ✓ Embedded Objects
- ✓ EJBQL

Web Technology

HTML 5

- ✓ Introduction to HTML
- ✓ HTML Tags
- ✓ Creating Forms
- ✓ Creating tables
- ✓ Managing home page

CSS

- ✓ Introduction to CSS
- ✓ Three ways to use CSS
- ✓ CSS Properties
- ✓ Designing website
- ✓ Working with Templates

Javascript

- ✓ Introduction to Javascript
- ✓ Three ways to use Javascript
- ✓ Working with events
- ✓ Client-side Validation

JQuery

- ✓ Introduction to JQuery
- ✓ Validation using JQuery
- ✓ JQuery Forms
- ✓ JQuery Examples

AJAX

- ✓ Introduction to AJAX
- ✓ Servlet and JSP with AJAX
- ✓ Interacting with database

