JSTL - Jsp Standard Tag Library

Presented by

JSTL

- A collection of tags to simplify JSP development
- A way of replacement of scriplets in JSP
- Encapsulate core functionality common to many JSP Apps

- JSTL – Core Tags
    - Provides variable support, flow control

@taglib directive – Core Tags - c:set, c:out

@page - for Tomcat 10.0 Jakarta api :

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8" isELIgnored="false"%>
```

@taglib:

To communicate JSP container that this page is using JSTL tags

```
<%@ taglib uri= "http://java.sun.com/jsp/jstl/core" prefix= "c"%>
```

<c:set>

```
<c:set var= "salary" value= "${2000*2} "/>
```

<c:out>

```
<c:out value= "${salary} "/>
```

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- **<c:if>**

- It is used to test a condition to evaluate the page body content

```
<c:set var= "number" value= "${200} "/>
<c:if test= "${number<500} ">
        <c:out value= "number is less than 500"></c:out>
</c:if>
```

<c:forEach>

The **<c:forEach>** is an iteration tag used for repeating the nested body content for fixed number of times

```
<c:forEach var= "number" begin= "1" end= "10">
    <c:out value= "${number} "></c:out>
</c:forEach>
```

<c:forTokens>

The **< c:forTokens >** tag iterates over tokens which is separated by the

supplied delimiters

It breaks a string into tokens and iterate through each of the tokens to generate output.

```
<c:forTokens items= "Rajesh-Nesha-Krishna" delims= "-" var= "name">
        <c:out value= "${name} "/><p>
</c:forTokens>
```

JSTL – Formatting Tags

Purpose: Used to format data for presentation in JSPs.

Common Formatting Tags:

        <fmt:formatDate>

        <fmt:formatNumber>

        <fmt:formatMessage>

        <fmt:parseDate>

        <fmt:parseNumber>

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JSTL – Formatting Date

<fmt:formatDate> Tag

Description: Formats a date object into a string using a specified pattern.

Attributes:

    value – Date object or string representation
    pattern – Date format pattern (e.g., "yyyy-MM-dd")
Example:

        `<fmt:formatDate value="${myDate}" pattern="MM/dd/yyyy" />`

JSTL – Formatting Numbers

<fmt:formatNumber> Tag

Description: Formats a number according to a specified pattern.

Attributes:

    value – Number to format
    type – Type of number (e.g., "number", "currency")
    pattern – Number format pattern (e.g., "#,###.00")

Example:

```
<fmt:formatNumber value="${myNumber}" type="currency" />
```

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JSTL – Formatting Messages

<fmt:formatMessage> Tag

Description: Formats a message using resource bundles.

Attributes:

    key – Key for the message in the resource bundle
    bundle – Resource bundle name (optional)
    var – Variable name to store the formatted message (optional)

Example:

        `<fmt:formatMessage key="welcome.message" />`

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JSTL – Parsing Dates

<fmt:parseDate> Tag

Description: Parses a string into a date object based on a specified pattern.

Attributes:

    value – Date string
    pattern – Date format pattern
    var – Variable name to store the parsed date

Example :

<fmt:parseDate value="${dateString}" pattern="yyyy-MM-dd" var="parsedDate" />

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Thank You