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JSTL(To avoid java code inside jsp)
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URL Related tags
1. <c:import>
           We can use this tag for importing the response of other pages in the
current page response at
            request processing time(dynamic include)
                 form1: <c:import url=''>
                 form2: <c:import url='' context = ''/>[To perform cross context
communication]
                 form3: <c:import url='' var=''/>[To reuse the output of the page
in multiple locations of the current page]
                 form4: <c:import url=''>
                                   <c:param name='' value=''/>
                                   <c:param name='' value=''/>
                             </c:import>
2. <c:redirect> => Same as sendRedirect() method
                 form1: <c:redirect url=''/>
                 form2: <c:redirect url='' var=''/>
                 form3: <c:redirect url='' context=''/>[Cross Context
communication]
                 form4: <c:redirect url=''>
                                   <c:param name='' value=''/>
                                   <c:param name='' value=''/>
                             </c:redirect>
3. <c:url> => we use this standard action to rewrite url's to append session
information and form parameters
           form1: <c:url value='' var='' scope=''/>
           form2: <c:url value='' var='' scope='' context=''/>
           form3: <c:url value='' var=''>
                             <c:param name='' value=''/>
                             <c:param name='' value=''/>
                       </c:url>
4. <c:param> => To send the parameter data of the request object.
                                   refer: JSTLApp-01
Core libray tags
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1. <c:out>
2. <c:set var='' value='' scope=''>
3. <c:remove var='' scope=''>
4. <c:catch var=''>
5. <c:if test='${!empty e}'>
6. <c:choose>,<c:when test=''>,<c:otherwise>
7. <c:forEach var='' items=''>
8. <c:forEachTokens>
9. <c:import>
10.<c:redirect>
11.<c:url var='' value=''/>
12.<c:param name='' value=''>
Note: Commonly used tags no are 4,5,6,7,11 and 12.
SQLTagLibrary
      It defines several tags for communicating with database.
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To make sql library available to jsp, we need to write the following sql directive

<%@taglib uri="http://java.sun.com/jsp/jstl/sql" prefix='sql' %>

The tags of sql library are

- a. <sql:setDataSource>
- b. <sql:query>
- c. <sql:update>
- d.<sql:param>
- e. <sql:dateParam>
- f. <sql:transaction>

Note: Inside JSP, we use JSTL and it is never recomended to use JSTL SQL library to communicate with database

becoz jsp is meant only for presentation logic not to perform persitence logic operation.

refer: JSTLApp-02

Function Library

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It defines several tags for general purpose String manipulations.

To use Functional library, we have to write the following taglib directive in jsp

<%@ taglib uri="http://java.sun.com/jsp/jstl/functions" prefix='fn' %>
Important tags in the library are

- a. <fn:contains()/>
- b. <fn:length()/>
- c. <fn:toUpperCase()/>
- d. <fn:toLowerCase()/>
- e. <fn:substring()/>
- f. <fn:startsWith()/>
- g. <fn:endsWith()/>
- h. <fn:split()/>
- i. <fn:join()/>

refer: JSTLApp-03

Format library

These are given to enable I18N(InternationalizatioN) on jsp pages
It is useful to display datevalues, numbers, currency values, labels etc
according to current/choose locale

refer: JSTLApp-04

- 1. <fmt:setLocale>
- 2. <fmt:formatDate>
- 3. <fmt: setBundle>
- 4. <fmt: mesage>
- 5. <fmt: formatNumber>

Note:

- 1. basebundle name should reflect in all properties
- file(en_US, it_IT, hi_IN, fr_FR,)
- 2. All properties file should have same keys but with different values.
- 3. enable charset ='utf-8'
- 4. All the files must have proper extension (.properties)
- 5. if no matching is found then it will pick the base file called "App.properties".

Technology

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JDBC API

Servlet API JSP API