JSTL TAGS - by RAGHU SIR

1. JSTL Core Tags:

Tags	Description
c:out	Prints given expression, similar to the way <%=%> tag
	work.
c:set	Create variable in given 'scope'.
c:remove	delete variable from a particular scope.
c:if	If conditional statement
c:choose, c:when, c:otherwise	It is like switch case statement
c:forEach	Behaves like for loop and for each loop
c:forTokens	Given string separated by the supplied delimeters.
c:param	It adds a parameter in a containing URL.
c:redirect	It redirects the browser to a new URL.
c:url	It creates a new URL with optional query parameters.
c:import	Import HTML content into given variable
c:catch	It is used to store any exception raised.

AllInOneExample: index.jsp

```
<%@page import="java.util.*"%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
  pageEncoding="ISO-8859-1"%
<%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD/HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
        ccset var="eid" value="10" scope="request"/>
       <c:if test="${eid gt 0 }">
              <c:out value="It's ok"/>
       </c:if>
       <c:choose>
              <c:when test="${eid It 0 }">
                     <c:out value="-ve value"/>
              </c:when>
              <c:when test="${eid gt 0}">
```

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```
<c:out value="+ve value"/>
              </c:when>
              <c:otherwise>
                      <c:out value="It is zero"/>
              </c:otherwise>
       </c:choose>
       <c:forEach begin="1" end="${eid}" var="i">
              <c:out value="${i}"/>
       </c:forEach>
       <c:remove var="eid"/>
       Data is:<c:out value="${eid}"/>
       <%
              List<String> al=Arrays.asList("A","B","C");
              request.setAttribute("list", al);
       %>
       <c:forEach items="${list}" var="ob">
              <c:out value="${ob}"/>
       </c:forEach>
       <c:set value="Hi this is from sathya tech!
  <c:forTokens items="${str}" delims=" " var
       <c:out value="${s}"/> <br/>
  </c:forTokens>
 <c:url var="search" value="https://www.google.co.in/search">
       <c:param name="q" value="India"/>
  </c:url>
  <%-- <c:redirect url=
                       "${search}"/> --%>
       <c:catch var=
                      int a=10/0;
          out value="${ae}"/>
       <c:import url="hi.jsp"/>
</body>
</html>
```

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2. JSTL SQL Tags

SQL Tags	Descriptions
sql:setDataSource	It is used for creating a simple data source suitable only for prototyping.
sql:query	It is used for executing the SQL query defined in its sql attribute or the body.
sql:update	It is used for executing the SQL update defined in its sql attribute or in the tag
	body.
sql:param	It is used for sets the parameter in an SQL statement to the specified value.
sql:dateParam	It is used for sets the parameter in an SQL statement to a specified java.util.Date
	value.
sql:transaction	It is used to provide the nested database action with a common connection.

```
AllInOneExample: index.jsp
<sql:setDataSource driver="oracle.idbc.OracleDriver"
url="jdbc:oracle:thin:@localhost:1522:ORCL"
user="system" password="Admin" var="ds"/>
<sql:guery var="rs" dataSource="${ds}" sql="select * from empstab
<c:forEach items="${rs.rows}" var="emp">
       <c:out value="${emp.eid}"/>
       <c:out value="${emp.ename}"/>
       <c:out value="${emp.esal}"/>
       <c:out value="${emp.dob}"
</c:forEach>
<sql:update var="count" sql="insert into empstab values(18, 'D', 5.5, sysdate)"
dataSource="${ds}"/>
No of rows Inserted:<c:out value="${count }"/>
<sql:update var="count" sql="delete from empstab where eid>=?" dataSource="${ds}">
       <sql:param value="15"/>
</sql:update>
No of rows Deleted:<c:out value="${count }"/>
<sql:transaction dataSource="${ds}">
       <sql:update sql="insert into empstab values(22, 'RR', 3.3, sysdate)"/>
       <sql:update sql="insert into empstab values(23, 'RT', 3.3, sysdate)"/>
       <sql:update sql="insert into empstab values(24, 'RZ', 3.3, sysdate)"/>
</sql:transaction>
<sql:update sql="update empstab set dob=TO_DATE('2019/10/10', 'yyyy/mm/dd')"
dataSource="${ds}"/>
```

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3. JSTL Function Tags:

JSTL Functions	Description
fn:contains()	It is used to test if an input string containing the specified substring
fn:containsIgnoreCase()	It is used to test if an input string contains the specified substring as a case
	insensitive way.
fn:endsWith()	It is used to test if an input string ends with the specified suffix.
fn:escapeXml()	It escapes the characters that would be interpreted as XML markup.
fn:indexOf()	It returns an index within a string of first occurrence of a specified substring.
fn:trim()	It removes the blank spaces from both the ends of a string.
fn:startsWith()	It is used for checking whether the given string is started with a particular string value.
fn:split()	It splits the string into an array of substrings.
fn:toLowerCase()	It converts all the characters of a string to lower case.
fn:toUpperCase()	It converts all the characters of a string to upper case.
fn:substring()	It returns the subset of a string according to the given start and end position.
fn:substringAfter()	It returns the subset of string after a specific substring.
fn:substringBefore()	It returns the subset of string before a specific substring.
fn:length()	It returns the number of characters inside a string, or the number of items in a collection.
fn:replace()	It replaces all the occurrence of a string with another string sequence.

AllInOneExample: index.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
    pageEncoding="ISO-8859-1"%>
<%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<%@taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions"</pre>
%>
<html>
<body>
<c:set value="Hello from Sathya Technologies" var="str"/>
STR: ${str}
SUB STR: ${fn:substring(str,2,7) }
SUB STR: ${fn:substringAfter(str,'from') }
SUB STR: ${fn:substringBefore(str,'Sathya') }
<c:if test="${fn:contains(str,'Sathya') }">
      Hello <u>Sathya</u> <u>Tech</u>#1
</c:if>
<c:if test="${fn:containsIgnoreCase(str,'sathya') }">
      Hello <u>Sathya</u> <u>Tech</u>#2
</c:if>
<c:if test="${fn:startsWith(str,'Hel') }">
      Hello <u>Sathya</u> <u>Tech</u>#3
</c:if>
```

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```
<c:if test="${fn:endsWith(str,'ies') }">
     Hello Sathya Tech#4
</c:if>
Index: ${fn:indexOf(str,'from') }
<c:set var="str2" value=" Hello RAM "></c:set>
LEN : ${fn:length(str2) }
<c:set var="str3" value="${fn:trim(str2) }"></c:set>
LEN : ${fn:length(str3) }
LOWER: $\{fn:toLowerCase(str3)\}
UPPER : ${fn:toUpperCase(str3) }
REPLACE : ${fn:replace(str3,'Hello','hi') }
<c:set var="str4" value="${fn:split(str3,' ') }"></c:</pre>
${str4[0]}
${str4[1]}
<c:set var="str5" value="Hi Employee <ename> AJAY
                                                  </ename>"></c:set>
${str5}
${fn:escapeXml(str5) }
</body>
</html>
```

4. JSTL Formatting tags:

Formatting Tags	Descriptions
fmt:parseNumber	It is used to Parses the string representation of a currency, percentage or number.
fmt:formatNumber	It is used to format the numerical value with specific format or precision.
fmt:formatDate	It formats the time and/or date using the supplied pattern and styles.

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5. JSTL XML tags:

XML Tags	Descriptions
x:out	Similar to <%= > tag, but for XPath expressions.
x:parse	It is used for parse the XML data specified either in the tag body or an attribute.
x:set	It is used to sets a variable to the value of an XPath expression.
x:choose	It is a conditional tag that establish a context for mutually exclusive conditional
	operations.
x:when	It is a subtag of that will include its body if the condition evaluated be 'true'.
x:otherwise	It is subtag of that follows tags and runs only if all the prior conditions evaluated be
	'false'.
x:if	It is used for evaluating the test XPath expression and if it is true, it will processes its
	body content.

Required Jars Download Link:

https://www.mediafire.com/file/f44hgus638mcxe7/JSTL XML JARS.rar/file

```
AllInOneExample:index.jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<%@taglib prefix="x" uri="http://java.sun.com/jsp/jstl/xml" %>
<html>
<body>
<h2>Hello</h2>
```

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```
<c:set var="emps">
<employees>
     <employee>
           <empId>10</empId>
           <empName>AJAY</empName>
           <empSal>366.36
     </employee>
     <employee>
           <empId>11</empId>
           <empName>VIJAY</empName>
           <empSal>855.36
     </employee>
     <employee>
           <empId>12</empId>
           <empName>JAI</empName>
           <empSal>985.36
     </employee>
</employees>
</c:set>
<x:parse xml="${emps}" var="data"/</pre>
<x:set var="ename" select="$data/employees/employee[2]/empName"/>
<x:out select="$ename"/>
<x:out select="$data/employees/employee[1]/empId"/>
<x:choose>
     <x:when select="$data/employees/employee[1]/empSal < 20000">
          Good, But not OK
     </x:when>
     <x:when select="$data/employees/employee[1]/empSal > 20000">
          Nice, Be happy
     </x:when>
     <x:otherwise:</pre>
          Unable to get Data
     </x:otherwise>
</x:choose>
<x:if select="$data/employees/employee[2]/empName = 'VIJAY'">
     Hello VIJAY
</x:if>
</body>
</html>
```

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