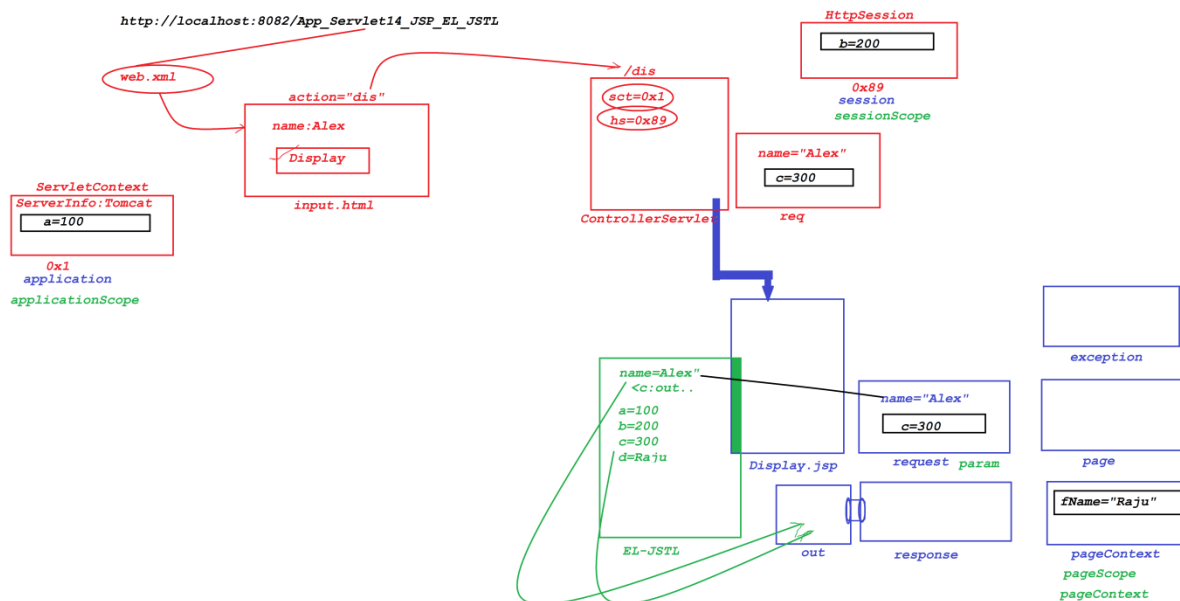


Dt : 28/12/2023

Ex-application:(Demonstrating EL-JSTL)

Layout:



input.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title> </head>
<body>
<form action="dis" method="post">
Enter the name:<input type="text" name="name"><br>
<input type="submit" value="Display">
</form>
</body>
</html>
```

ControllerServlet.java

```
package test;

import java.io.*;

import javax.servlet.*;

import javax.servlet.http.*;

import javax.servlet.annotation.*;

@SuppressWarnings("serial")

@WebServlet("/dis")

public class ControllerServlet extends HttpServlet{

    @ Override

    public void doPost(HttpServletRequest req,

                        HttpServletResponse res)

        throws ServletException,IOException{

        ServletContext sct = this.getServletContext();

        HttpSession hs = req.getSession();

        sct.setAttribute("a",100);

        hs.setAttribute("b",200);

        req.setAttribute("c", 300);

        RequestDispatcher rd = req.getRequestDispatcher("Display.jsp");

        rd.forward(req,res);

    }

}

Display.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" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body> <% pageContext.setAttribute("fName", "Raju"); %>
<c:set var="name" value="${param.name}" />
WELCOME : <c:out value="${name}" /><br>
<c:set var="a" value="${applicationScope.a}" />
<c:set var="b" value="${sessionScope.b}" />
<c:set var="c" value="${requestScope.c}" />
<c:set var="d" value="${pageScope.fName}" />
ContextVal:<c:out value="${a}" /><br>
SessionVal:<c:out value="${b}" /><br>
RequestVal:<c:out value="${c}" /><br>
PageVal:<c:out value="${d}" /><br> </body>
</html>

```

web.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<web-app>
  <welcome-file-list>
    <welcome-file>input.html</welcome-file>
  </welcome-file-list>
</web-app>

```

```

=====
=====

```

faq:

define pageContext?

***=>pageContext is an implicit object generated for
javax.servlet.jsp.PageContext AbstractClass and which is extended
from javax.servlet.jsp.JspContext AbstractClass.***

***=>using pageContext object we can access remaining implicit
objects of JSP.***

The following are some important methods:

***public abstract javax.servlet.jsp.JspWriter getOut();
public abstract javax.servlet.http.HttpSession getSession();
public abstract javax.servlet.ServletRequest getRequest();
public abstract javax.servlet.ServletResponse getResponse();
public abstract java.lang.Object getPage();
public abstract java.lang.Exception getException();
public abstract javax.servlet.ServletConfig getServletConfig();
public abstract javax.servlet.ServletContext
getServletContext();***

=====

faq:

define "page"?

=>"page" is an implicit object of java.lang.Object

class, this "page" object is used when we want the methods of java.lang.Object class.

Note:

=>page implicit object is used part of JSP, when we want to perform Cloning process or Thread communication process.

=====

Some Example Programs on JSP EL-JSTL:

Exp_Program:(CoreTags)

input.html

```
<!DOCTYPE html> <html> <head> <meta charset="ISO-8859-1"> <title>Insert
title here</title> </head> <body> <form method="post" action="CoreTags.jsp">
Enter the String:<input type="text" name="str"><br> <input type="submit"
value="Display"> </form> </body> </html>
```

CoreTags.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" %> <!DOCTYPE html> <html> <head>
<meta charset="ISO-8859-1"> <title>Insert title here</title> </head> <body>
<c:set var="n" value="${param.str}" /> <c:forEach var="j" begin="1" end="5">
<c:out value="${n}"/><p> </c:forEach> <c:forTokens items="${param.str}"
delims=" " var="name"> <c:out value="${name}"/><p>
</c:forTokens> </body> </html>
```

Ex_Program:(Function Tags)

input.html

```
<!DOCTYPE html> <html> <head> <meta charset="ISO-8859-1"> <title>Insert  
title here</title> </head> <body> <form method="post"  
action="FunctionTag.jsp"> Enter the String:<input type="text" name="str"><br>  
<input type="submit" value="Submit"> </form> </body> </html>
```

FunctionTag.html

```
<%@ page language="java"      contentType="text/html; charset=ISO-8859-1"  
pageEncoding="ISO-8859-1"%> <%@ taglib  
uri="http://java.sun.com/jsp/jstl/core"          prefix="c" %>  
<%@ taglib uri="http://java.sun.com/jsp/jstl/functions"  
prefix="fn" %> <!DOCTYPE html> <html> <head> <meta charset="ISO-8859-1">  
<title>Insert title here</title> </head> <body> <c:set var="s1"  
value="{param.str}"/> <c:choose> <c:when test="{fn:contains(s1, 'java')}">  
<p>String Founded<p> </c:when> <c:otherwise> <p>String Not Founded<p>  
</c:otherwise> </c:choose> <c:if test="{fn:containsIgnoreCase(s1, 'JAVA')}">  
<p>String Founded<p> </c:if> </body> </html>
```

Ex_Program:(formatting Tags)

FormatTag.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="fmt"  
uri="http://java.sun.com/jsp/jstl/fmt"%> <!DOCTYPE html> <html> <head>  
<meta charset="ISO-8859-1"> <title>Insert title here</title> </head> <body>  
<h2>Different Formats of the Date</h2> <c:set var="Date" value="{%=new  
java.util.Date()%}" /> <p> Formatted Time : <fmt:formatDate type="time"  
value="{Date}" /> </p> <p> Formatted Date : <fmt:formatDate type="date"  
value="{Date}" /> </p> <p> Formatted Date and Time : <fmt:formatDate
```

`type="both" value="${Date}" /> </p> <p> Formatted Date and Time in short style : <fmt:formatDate type="both" dateStyle="short" timeStyle="short" value="${Date}" /> </p> <p> Formatted Date and Time in medium style :`

`<fmt:formatDate type="both" dateStyle="medium" timeStyle="medium" value="${Date}" /> </p> <p> Formatted Date and Time in long style : <fmt:formatDate type="both" dateStyle="long" timeStyle="long" value="${Date}" /> </p> </body> </html>`

=====