

Java Full Stack Lab Manual - JDBC Experiment

Aim

To demonstrate the usage of JSTL Formatting Tags such as `<fmt:formatNumber>`, `<fmt:formatDate>`, `<fmt:parseDate>`, and `<fmt:message>`.

Technologies Used

JSP, JSTL (Formatting Tag Library), Apache Tomcat

Directory Structure

```
JSTLFormatDemo/  
|  
+- format-demo.jsp  
+- WEB-INF/  
    +- web.xml  
    +- lib/  
        +- jstl.jar
```

Required JARs (Place in WEB-INF/lib/)

jakarta.servlet.jsp.jstl-api-*.jar

jakarta.servlet.jsp.jstl-impl-*.jar

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format-demo.jsp

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/fmt" prefix="fmt" %>
<%@ page import="java.util.*" %>
<html>
<head><title>JSTL Format Tag Demo</title></head>
<body>

<h2>JSTL Format Tag Examples</h2>

<!-- Format Number -->
<fmt:formatNumber value="1234567.89" type="currency" />

<br>

<!-- Format Date -->
<%
    Date today = new Date();
    pageContext.setAttribute("today", today);
%>
<p>Today is: <fmt:formatDate value="${today}" pattern="dd-MM-yyyy" /></p>

<!-- Format Date and Time -->
<p>Current time: <fmt:formatDate value="${today}" type="both" /></p>

<!-- Custom Message (Optional if resource bundle is used) -->
<fmt:message key="welcome.message" bundle="${bundle}" />

</body>
</html>
```

web.xml

```
<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
        http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd"
    version="3.1">

    <welcome-file-list>
        <welcome-file>format-demo.jsp</welcome-file>
    </welcome-file-list>

</web-app>
```

How to Run

1. Download required JSTL JARs and place them in `WEB-INF/lib`.

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2. Deploy the `JSTLFormatDemo` folder in Tomcat's `webapps` directory.
3. Start Tomcat and visit: <http://localhost:8080/JSTLFormatDemo/format-demo.jsp>

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Expected Output

```
Rs.1,234,567.89  
Today is: 04-07-2025  
Current time: Jul 4, 2025, 5:52:00 PM
```

Result

Successfully demonstrated JSTL format tags for numbers and dates.