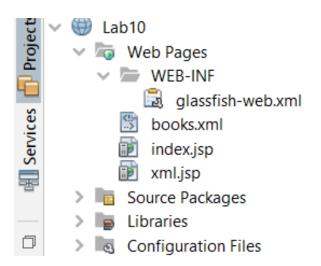
- 10) Make use of the following types of Tags available in JSTL Taglibs as a part of JSP programs.
- a) Format: fmt:formatDate, fmt:parseDate and fmt:setTimeZone tags.
- b) XML: x:parse, x:forEach and x:out tags.



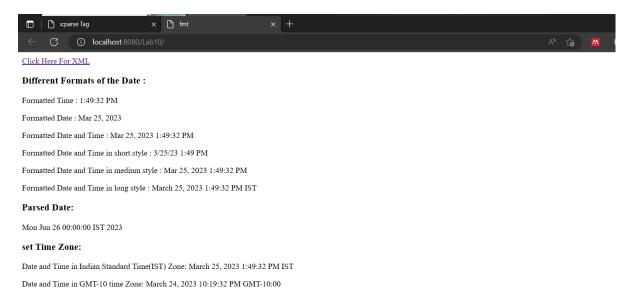
## Index.jsp

```
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>
<html>
  <head>
    <title>fmt</title>
  </head>
  <body>
    <a href="xml.jsp"> Click Here For XML </a>
    <h3>Different Formats of the Date :</h3>
    <c:set var="Date" value="<%=new java.util.Date()%>"/>
    >
      Formatted Time:
      <fmt:formatDate type="time" value="${Date}" />
    >
      Formatted Date:
```

```
<fmt:formatDate type="date" value="${Date}" />
>
 Formatted Date and Time:
 <fmt:formatDate type="both" value="${Date}" />
>
 Formatted Date and Time in short style:
 <fmt:formatDate type="both" dateStyle="short" timeStyle="short"</pre>
         value="${Date}" />
>
 Formatted Date and Time in medium style:
 <fmt:formatDate type="both" dateStyle="medium" timeStyle="medium"
         value="${Date}" />
>
 Formatted Date and Time in long style:
 <fmt:formatDate type="both" dateStyle="long" timeStyle="long"</pre>
         value="${Date}" />
<h3>Parsed Date:</h3>
<c:set var="date" value="26-06-2023" />
<fmt:parseDate value="${date}" var="parsedDate" pattern="dd-MM-yyyy" />
<c:out value="${parsedDate}" />
<h3>set Time Zone: </h3>
<c:set var="date" value="<%=new java.util.Date()%>"/>
Date and Time in Indian Standard Time(IST) Zone: <fmt:formatDate value="${date}"</p>
        type="both" timeStyle="long" dateStyle="long" />
```

</body>

# </html>



### books.xml

<books>

<book>

<name>Three mistakes of my life</name>

<author>Chetan Bhagat</author>

<price>200</price>

</book>

<book>

<name>Tomorrow land</name>

<author>NUHA</author>

<price>2000</price>

</book>

</books>

### xml.jsp

```
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<%@ taglib prefix="x" uri="http://java.sun.com/jsp/jstl/xml" %>
<html>
  <head>
   <title>x Tag</title>
  </head>
  <body>
   <h3>x:Parse</h3>
    <h5>Books Info:</h5>
    <c:import var="bookInfo" url="books.xml"/>
    <x:parse xml="${bookInfo}" var="output"/>
    First Book title: <x:out select="$output/books/book[1]/name" />
    First Book price: <x:out select="$output/books/book[1]/price" />
    Second Book title: <x:out select="$output/books/book[2]/name" />
    Second Book price: <x:out select="$output/books/book[2]/price" />
    <h3>For Each: </h3>
    <c:set var = "xmltext">
    <books>
     <book>
        <name>Three mistakes of my life</name>
        <author>Chetan Bhagat</author>
        <price>200</price>
      </book>
      <book>
```

```
<name>Tomorrow land</name>
     <author>NUHA</author>
     <price>2000</price>
   </book>
 </books>
</c:set>
<x:parse xml = "${xmltext}" var = "output"/>
ul class = "list">
 <x:forEach select = "$output/books/book/name" var = "item">
   Sook Name: <x:out select = "$item" />
   </x:forEach>
<br>
<h3>x:out </h3>
<c:set var="book">
 <books>
   <book>
     <name>Three mistakes of my life</name>
     <author>Chetan Bhagat</author>
     <price>200</price>
   </book>
   <book>
     <name>Tomorrow land</name>
     <author>NUHA</author>
     <price>2000</price>
   </book>
 </books>
</c:set>
```

```
<x:parse xml="${book}" var="output"/>
  <b>Name of the book is</b>:
  <x:out select="$output/books/book[1]/name" /><br>
  <b>Price of the book is</b>:
  <x:out select="$output/books/book[2]/price" />
</body>
```

### Output

</html>

