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# LIST OF EXPERIMENT

S.No	EXPERIMENT		ISSUE	PAGE
1	Development of static pages using HTML of an online Departmental Store. The website should be user friendly with Home page, Registration and user login, User profile page, Items catalog,etc.	EXP-01	02-Sep-2009	
2	Add validations to the above static pages of registration, user login, user profile and payment by credit card using Java Script.	EXP-02	02-Sep-2009	
3	Creation of a XML document of 20 students of III IT. Write a program that takes students' roll number as an input and returns the students students' information from the XML document.	EXP-03	02-Sep-2009	
4	Create an XML document and display it with the help of CSS OR XSL	EXP-04	02-Sep-2009	
5	Creation of a JavaBean which gives the converted value of Temperature (in degree celcius) into equivalent Fahrenheit	EXP-05	02-Sep-2009	
6	Creation of a simple Bean with a label – which is a "count" of number of clicks.	EXP-06	02-Sep-2009	
7	Installation of TOMCAT web server. Convert the static web pages of assignments 2 into dynamic web pages using servlets and cookies	EXP-07	02-Sep-2009	
8	Do the assignment 7 using JSP by converting the static web pages of assignment 2 into dynamic web pages.	EXP-08	02-Sep-2009	
9	Implementation of "Hello World!" using JSP Struts Framework.	EXP-09	02-Sep-2009	

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## **EXP-01-Static website using HTML**

Development of static pages using HTML of an online Departmental Store. The website should be user friendly and should have the following pages: **Home page, Registration and user login, User profile page, etc.** 

#### **HOME PAGE:**

```
<html>
<head>
<title>India's No.1 Shopping Site</title></head>
k rel=stylesheet href=style.css>
<body bgcolor=gray>
<div id=st1>
<input class=i type=button value=HOME name=btn1
onclick="document.location.href='home.html'"><input class=i type=button
value="SIGN UP" name=btn2
onclick="document.location.href='sign_up.html"><input class=i type=button
value="SIGN IN" name=btn3
onclick="document.location.href='sign_in.html"><input class=i type=button
value=CATALOG name=btn4 onclick="document.location.href='catlog.html'" ><input
class=j type=text width=10 name=search><input class=i type=button
value=SEARCH name=btn_ser>
<div id=st2>
<a class=a1>Our Services<a>
1.24*7 Shooping
2.Payment By Credit Card
3.Special Offer for ICICI Bank's Customer
<a class=a1>Our Policy<a>
1.Customer Satisfaction
2.Reliable Services
3.Secure Online Transaction
</div> </div>
</body>
          </head>
```

### **Registration and user Login**

```
<html>
<head>
<title>India's No.1 Shopping Site</title>
```



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Pin Code<input type=text name=txt7> Phone Number<input type=text name=txt8> <input type=submit value=Register><input type=reset</td> value=Reset> </div> </div> </body></head> **User Profile:** <html> <head> <title>India's No.1 Shopping Site</title></head> k rel=stylesheet href=style.css> <body bgcolor=gray> <div id=st1> <input class=i type=button value=HOME name=btn1 onclick="document.location.href='home.html'"><input class=i type=button value="SIGN UP" name=btn2 onclick="document.location.href='sign\_up.html"><input class=i type=button value="SIGN IN" name=btn3 onclick="document.location.href='sign\_in.html"'><input class=i type=button value=CATALOG name=btn4 onclick="document.location.href='catlog.html"" ><input class=j type=text width=10 name=search><input class=i type=button value=SEARCH name=btn ser> Items ApparelT ShirtsJewellery Bags & LuggageBooksCameras Consumer DurablesMoviesGift Vouchers Health & Personal CareHome & DecorHome Entertainment

```
KitchenwareLaptopsMemory & StorageMobilesToys and GamesWatchesiPod & MP3 Players/tr>>center><a class=order href="order_conf.html">Order Now</a></center>
```

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</head>

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### EXP-02-Adding Validation using JavaScript

Add validations to the above static pages of registration, user login and user profile using Java Script.

#### **User Login**

```
<html>
<head>
<title>India's No.1 Shopping Site</title><script language=javascript>
function chk1(rt)
                        ł
if(rt=="")
                {
alert("Please Enter Related information");
}
       }
function chk2(rt,rt1)
                       {
if(rt!=rt1)
                {
alert("Please Enter Correct password");
}
        }
function chk3(rt)
                        {
if(rt=="")
                {
alert("Please Enter E-mail Id ");
}
else
        {
if(rt.indexOf("@")==-1)
                                {
alert("Please Enter E-Mail Id in Correct Format");
}
else
      {
if(rt.indexOf(".")==-1)
                               {
alert("Please Enter E-mail Id in Correct Format");
}
        }
        }
}
</script>
```

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k rel=stylesheet href=style.css> <body bgcolor=gray><div id=st1> <input class=i type=button value=HOME name=btn1 onclick="document.location.href='home.html"'><input class=i type=button value="SIGN UP" name=btn2 onclick="document.location.href='sign\_up.html"><input class=i type=button value="SIGN IN" name=btn3 onclick="document.location.href='sign\_in.html"'><input class=i type=button value=CATALOG name=btn4 onclick="document.location.href='catlog.html'" ><input class=i type=text width=10 name=search><input class=i type=button value=SEARCH name=btn ser> <div id=st2><form name=frm1> REGISTRATION First Name<input type=text name=txt1 onBlur="chk1(txt1.value)"> Last Name<input type=text name=txt2 onBlur="chk1(txt2.value)"> E-mail IDinput type=text name=txt3 onBlur="chk3(txt3.value)"> Login IDlogin type=text name=lg id onBlur="chk1(lg\_id.value)"> Passwordinput type=password name=txt4

```
State<select name=sel><option>AndhraPradesh</option><option>ArunachalPradesh</option><option>Bihar</option><option>Chandigarh</option><option>Delhi</option><option>Uttarpradesh</option><option>Uttarakhand
```

```
option></select>
```

```
Pin Code<input type=text name=txt7
```

```
onBlur="chk1(txt7.value)">
```

```
Phone Number<input type=text name=txt8
```

```
onBlur="chk1(txt1.value)">
```

```
<input type=button value=Register name=sub_btn onclick=""><input type=reset value=Reset>
```

```
</form>
```

</head>

```
</div>
</div></body>
</head>
```

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### **User Profile:**

```
<html>
<head>
<title>India's No.1 Shopping Site</title>
</head>
k rel=stylesheet href=style.css>
<body bgcolor=gray>
<div id=st1>
<input class=i type=button value=HOME name=btn1
onclick="document.location.href='home.html"><input class=i type=button
value="SIGN UP" name=btn2
onclick="document.location.href='sign_up.html"><input class=i type=button
value="SIGN IN" name=btn3
onclick="document.location.href='sign_in.html">s=i type=button
value=CATALOG name=btn4 onclick="document.location.href='catlog.html'" ><input
class=j type=text width=10 name=search><input class=i type=button
value=SEARCH name=btn ser>
Items
ApparelT ShirtsJewellery
Bags & LuggageBooksCameras
Consumer DurablesMoviesGift Vouchers
Health & Personal CareHome & DecorHome
Entertainment
KitchenwareLaptopsMemory & Storage
MobilesToys and GamesWatches
iPod & MP3 Players
<center><a class=order href="order conf.html">Order Now</a></center>
</div>
```

</body></head>

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### **EXP-03-Working with XML**

Create a XML document of 20 students of III IT. Add their roll numbers, marks obtained in 5 subjects, total and percentage and save this XML document at the server. Write a program that takes students' roll number as an input and returns the students marks, total and percentage by t.aking the students' information from the XML document.

### Student.xml

<?xml version="1.0" ?> - <students> - <Student> <rlno>01</rlno> <name>Ankit Chandra Prasad</name> <Automata>50</Automata> <00ps>80</00ps> <dbms>70</dbms> <dis>60</dis> <se>55</se> </Student> - <Student> <rlno>02</rlno> <name>Ankit Raturi</name> <Automata>54</Automata> <00ps>**50**</00ps> <dbms>80</dbms> <dis>60</dis> <se>59</se> </Student>

- <Student> <rlno>03</rlno> <name>Ankit Bhardwaj</name> <Automata>74</Automata>



#### **Displaying the student Information:**

```
<html>
<head>
<title>Result OF IIIT STUDENT</title>
<script language=javascript>
var xmlDoc = new ActiveXObject("Microsoft.XMLDOM")
xmlDoc.async="false"
xmlDoc.load("str1.xml")
function find_rec(chk) {
```

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```
for(i=0;i<xmlDoc.getElementsByTagName("Student").length;i++)</pre>
                                                                  {
if(parseInt(xmlDoc.getElementsByTagName("rlno").item(i).text)==parseInt(chk)) {
var det=xmlDoc.getElementsByTagName("Student").item(i).text
document.write(det)
var total
  =parseInt(xmlDoc.getElementsByTagName("Automata").item(i).text)+parseInt(xmlDoc.
  getElementsByTagName("oops").item(i).text)+parseInt(xmlDoc.getElementsByTagName
  ("dbms").item(i).text)+parseInt(xmlDoc.getElementsByTagName("dis").item(i).text)+par
  seInt(xmlDoc.getElementsByTagName("se").item(i).text);
document.writeln("<br>"+"The Total is"+total);
document.writeln("<br>"+"The Percentage is"+(parseInt(total)/500)*100);
}
}
        }
</script></head>
<body>
Enter Roll Number<input type=text name=txt1 >
<input type=button value=Find name=b1
  onclick=find_rec(txt1.value)>
</body>
</html>
```

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## EXP-04- Displaying an XML document using CSS or XSL.

```
Catalog.xml
  <?xml version="1.0" encoding="ISO-8859-1" ?>
- <CATALOG>
- <CD>
 <TITLE>Empire Burlesque</TITLE>
 <ARTIST>Bob Dylan</ARTIST>
 <COUNTRY>USA</COUNTRY>
 <COMPANY>Columbia</COMPANY>
 <PRICE>10.90</PRICE>
 <YEAR>1985</YEAR>
   </CD>
- <CD>
 <TITLE>Hide your heart</TITLE>
 <ARTIST>Bonnie Tyler</ARTIST>
 <COUNTRY>UK</COUNTRY>
 <COMPANY>CBS Records</COMPANY>
 <PRICE>9.90</PRICE>
 <YEAR>1988</YEAR>
   </CD>
<u>-</u> <CD>
 <TITLE>Greatest Hits</TITLE>
 <ARTIST>Dolly Parton</ARTIST>
 <COUNTRY>USA</COUNTRY>
 <COMPANY>RCA</COMPANY>
 <PRICE>9.90</PRICE>
 <YEAR>1982</YEAR>
   </CD>
<u>-</u> <CD>
 <TITLE>Still got the blues</TITLE>
 <ARTIST>Gary Moore</ARTIST>
 <COUNTRY>UK</COUNTRY>
 <COMPANY>Virgin records</COMPANY>
 <PRICE>10.20</PRICE>
 <YEAR>1990</YEAR> </CD>
```

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<u>-</u> <CD>

```
<TITLE>Eros</TITLE>
 <ARTIST>Eros Ramazzotti</ARTIST>
 <COUNTRY>EU</COUNTRY>
 <COMPANY>BMG</COMPANY>
 <PRICE>9.90</PRICE>
 <YEAR>1997</YEAR>
   </CD>
<u>-</u> <CD>
 <TITLE>One night only</TITLE>
 <ARTIST>Bee Gees</ARTIST>
 <COUNTRY>UK</COUNTRY>
 <COMPANY>Polydor</COMPANY>
 <PRICE>10.90</PRICE>
 <YEAR>1998</YEAR>
   </CD>
<u>-</u> <CD>
 <TITLE>Sylvias Mother</TITLE>
 <ARTIST>Dr.Hook</ARTIST>
 <COUNTRY>UK</COUNTRY>
 <COMPANY>CBS</COMPANY>
 <PRICE>8.10</PRICE>
 <YEAR>1973</YEAR>
   </CD>
   </CATALOG>
```

### **Display.css**

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```
CD
{
display: block;
margin-bottom: 30pt;
margin-left: 0;
}
TITLE
{
color: #FF0000;
font-size: 20pt;
}
ARTIST
{
color: #0000FF;
font-size: 20pt;
}
COUNTRY, PRICE, YEAR, COMPANY
display: block;
color: #000000;
margin-left: 20pt;
}
```

### <u>Menu.xml</u>

- <?xml version="1.0" encoding="ISO-8859-1" ?>
- <breakfast\_menu>

```
<u>-</u> <food>
```

```
<name>Belgian Waffles</name>
```

```
<price>$5.95</price>
```

```
<description>two of our famous Belgian Waffles with plenty of real
maple syrup</description>
```

```
<calories>650</calories>
```

</food>

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<u>-</u> <food>

<name>Strawberry Belgian Waffles</name>
<price>\$7.95</price>
<description>light Belgian waffles covered with strawberries and
whipped cream</description>
<calories>900</calories>
</food>
</food>
</food>
</food>
</food>
</food>
</food>
</description>Homestyle Breakfast</name>
<price>\$6.95</price>
<description>two eggs, bacon or sausage, toast, and our ever-popular
hash browns</description>

```
<calories>950</calories>
```

</food>

</breakfast\_menu>

### **Display.xsl**

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
```

```
- <html xsl:version="1.0"</pre>
```

```
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
```

```
xmlns="http://www.w3.org/1999/xhtml">
```

- <body style="font-family:Arial;font-size:12pt;backgroundcolor:#EEEEEE">
- <xsl:for-each select="breakfast\_menu/food">

```
- <div style="background-color:teal;color:white;padding:4px">
```

```
- <span style="font-weight:bold">
```

```
<xsl:value-of select="name" />
</span>
<xsl:value-of select="price" />
```

```
</div>
```

```
- <div style="margin-left:20px;margin-bottom:1em;font-size:10pt">
```

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<xsl:value-of select="description" />
\_ <span style="font-style:italic">
 <xsl:value-of select="calories" />
 (calories per serving)
 </span>

</div>

</xsl:for-each>

</body>

</html>

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## EXP-05- Java beans for a "count" of number of clicks.

## <u>Count.java</u>

```
package form;
public class CounterBean implements java.io.Serializable{
```

```
int coun = 0;
public CounterBean() {
}
public int getCoun() {
coun++;
return this.coun;
}
public void setCoun(int coun) {
this.coun = coun;
}
}
```

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## EXP-06- Java beans for the temperature Conversion

## Convtemp.jsp

```
<%@ page language="java" %>
<jsp:useBean id="tem" scope="session" class="form.tempConv" />
<HTML>
<HEAD><TITLE>Use Bean Temperature converter Example</TITLE>
</HEAD>
<BODY>
<form action="" method=get>
<input type=text name=txt1>
<jsp:setProperty name="tem" property="coun" value="72" />
table>The Converted value of 72F is: <b>
<%= tem.getCoun() %> </b>C
</BODY></HTML>
```

## tempConv.java

```
package form;
public class tempConv implements java.io.Serializable{
int far=0,cel=0;
public tempConv() {
}
public int getCoun() {
cel=far-60;
return cel;
}
public void setCoun(int far) {
this.far = far;
}
```

}

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## **EXP-07-** Convnecting to the Tomacat Server and run the JSP page

## Installing TOMCAT

Akarta Tomcat, an Open Source Servlet and JSP container, provides a simple (and free) environment for developing and testing Web applications. Tomcat is the reference implementation for the Servlet API and JSP. It's not a highperformance Servlet engine, but it is a complete implementation of the Servlet API.

For developers accustomed to GUI-driven Windows applications, installing Tomcat can be frustrating. In this article, I'll give you a step-by-step procedure to install and configure Tomcat on the Windows platform.

Java Servlets provide a framework for creating Web applications. Servlets are Java classes that use the Servlet API to accept a Request object from the browser and produce a Response object. For those of you familiar with Microsoft's Active Server Pages (ASP) technology, Java Server Pages (JSP) are similar but they use compiled Java Servlets rather than an interpreted scripting language. Like ASP pages, JSP pages consist of code mixed with HTML. The JSP hosting engine, commonly referred to as a "JSP container," converts the pages to a Servlet, then compiles and executes them.

The Tomcat engine is a Java program. Before you can run Tomcat, you must have the <u>Java Development Kit (JDK) version 1.2</u> or later installed on your computer.

Here are more details on using the preconfigured Tomcat version for direct (manual) execution. You can also use Tomcat within <u>Eclipse</u> or <u>MyEclipse</u>, or you can <u>customize the configuration</u>.

1. **Unzip** <u>Tomcat</u>. Unzip <u>tomcat-6.0.16-preconfigured.zip</u> into the top level of the C drive. This should result in *C:* |*apache-tomcat-6.0.16*|. This version of Tomcat has the following settings already in place. For details

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on customizing this configuration, please see <u>the detailed configuration</u> <u>guide</u>.

- The port is changed from 8080 to 80. This lets you enter URLs of the form *http://localhost/...* instead of *http://localhost:8080/...*.
  - When you download Tomcat from the Apache site, the port is 8080 in case you already have another server running on port 80.
- Servlet reloading is enabled. This lets you deploy a modified servlet .class file without restarting the server.
  - When you download Tomcat from the Apache site, servlet reloading is disabled for performance reasons. You might want it disabled on a server used for a deployed application, but you *definitely* want it enabled during development.
- The invoker servlet is enabled. This lets you drop a servlet .class file into webapps/*appName*/WEB-INF/classes/*packageName* and immediately run it with a URL of the form

http://localhost/*appName*/servlet/*packageName.servletName*. That is, the invoker servlet saves you from editing web.xml to give a servlet-mapping to your servlet.

- When you download Tomcat from the Apache site, the invoker servlet is disabled. You definitely want the invoker servlet disabled on a server used for a deployed application, but having it enabled on your development server is very convenient for quick testing.
- Tomcat monitors struts-config.xml and faces-config.xml. Whenever either of these files changes, Tomcat reloads the Web application. This saves you from restarting the server when you change these files.
- If you do not use Struts or JSF, this change will not be beneficial to you. But it does not hurt either way.
- Directory listings are turned on. If you type a URL ending in / and there is no welcome file, Tomcat shows a directory listing.
  - Directory listings were on by default in previous Tomcat versions. They are not required but are convenient, especially during development.
- 2. **Set JAVA\_HOME.** Set this environment variable to point at the top-level of your Java installation directory (e.g., *C:*|*Program*

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*this section of the page on configuring your development environment.* 

 Set CLASSPATH. Set this environment variable to include ".", *C:* |*Servlets+JSP*, and the servlet/JSP JAR files. For details, see <u>the sample</u> <u>autoexec.bat file</u> or <u>this section of the page on configuring your</u> <u>development environment</u>.

For a very quick test, open *C:* |*Servlets+JSP*, double click on the shortcut to startup.bat, and open http://localhost/ in your browser. If you see something about Tomcat, the setup was successful. But be sure to do the <u>more complete</u> <u>server tests</u> to verify that you have your development and deployment environment also set up properly.

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## EXP-08- Converting static web pages to JSP

### <u>Home.java</u>

```
import javax.servlet.*;
import java.io.*;
import javax.servlet.http.*;
public class home extends HttpServlet
{
public void doGet(HttpServletReguest reg, HttpServletResponse res) throws
ServletException,IOException
{
res.setContentType("text/html");
PrintWrCSEer pw= res.getWrCSEer();
pw.println("<html><head><tCSEle>India's No.1 Shopping
SCSEe</tCSEle></head>");
pw.println("<link rel=stylesheet href=style.css>");
pw.println("<body bgcolor=gray><div id=st1><input class=i
type=button value=HOME name=btn1
onclick=document.location.href='home.html'><input class=i
type=button value='SIGN UP' name=btn2
onclick=document.location.href='sign_up.html'><input class=i
type=button value='SIGN IN' name=btn3
onclick=document.location.href='sign_in.html'><input class=i
type=button value=CATALOG name=btn4
onclick=document.location.href='catlog.html' ><input class=j
type=text width=10 name=search><input class=i type=button
value=SEARCH name=btn_ser>");
```

```
pw.println("<div id=st2>");
pw.println("<a class=a1>Our Services<a>");
pw.println("1.24*7 Shooping");
pw.println("2.Payment By CreDIT Card");
pw.println("3.Special Offer for ICICI Bank's Customer");
pw.println("");
pw.println("");
```



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pw.println("	>Health & Personal CareHome &	
DecorHon	ne Entertainment");	
		0

```
pw.println("KCSEchenwareLaptopsMemory &
StorageMemory &
StorageMemory &
StorageMemory &
pw.println("MobilesToys and
GamesMobilesToys and
GamesMemory &
memory &
StorageMemory &
Storage</
```

# <u>Signin.java</u>

```
import javax.servlet.*;
import java.io.*;
import javax.servlet.http.*;
public class signin extends HttpServlet
{
public void doGet(HttpServletRequest req, HttpServletResponse res) throws
ServletException,IOException
{
res.setContentType("text/html");
PrintWrCSEer pw= res.getWrCSEer();
pw.println("<html><head><tCSEle>India's No.1 Shopping SCSEe</tCSEle>");
pw.println("<script language=javascript>");
pw.println("function chk1(rt,rt1){if(rt==" && rt=="){alert('Please Enter Id &
Password'); }");
pw.println("else{document.wrCSEe('WelCome '+rt);}}");
pw.println("</script></head><link rel=stylesheet href=style.css>");
pw.println("<body bgcolor=gray><div id=st1><input class=i
type=button value=HOME name=btn1
onclick=document.location.href='home.html'><input class=i
type=button value='SIGN UP' name=btn2
onclick=document.location.href='sign_up.html'><input class=i
type=button value='SIGN IN' name=btn3
onclick=document.location.href='sign_in.html'><input class=i
```

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type=button value=CATALOG name=btn4 onclick=document.location.href='catlog.html' > <input class="j&lt;br"/> type=text width=10 name=search> <input class="i" type="button&lt;br"/> value=SEARCH name=btn_ser> <input class="i" type="button&lt;br"/> value=SEARCH name=btn_ser>:); pw.println(" <div id="st4">&gt;<a class="h">SIGN IN</a>:);</div>		

pw.println("User ID<input type=text

name=txt3>");

pw.println("Passwordinput type=password

name=txt4>");

pw.println("<a href='#'><i>Forget Password?</i></d>");

pw.println("<input type=submCSE value=Enter

onclick=chk1(txt3.value,txt4.value)>

pw.println("</div></body></head>");

} }

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# **EXP-09-** Hello world in Java Struts

Creating directory structure for the project

**Step1:** Extract struts 2 download and copy **struts2-blank-2.0.6.war**(If you are using latest version of struts 2 then version may be different for you) to your tomcats **webapps** directory. Rename **struts2-blank-2.0.6.war** to **struts2tutorial** and unzip it in the tomcats webapps directory. Now start the tomcat and type <u>http://localhost:8080/struts2tutorial/</u> into your browser.

**Step 2:** Now delete the content of **struts2tutorial\WEB-INF\src** and **struts2tutorial\WEB-INF\classes** directories, as we don't need these files that comes with struts 2 blank application.

**Step 3:** Create **build.xml** file in the **struts2tutorial\WEB-INF\src** and paste the following content in the **build.xml** file.

```
<pathelement path ="lib/commons-digester.jar"/>
<pathelement path ="lib/struts.jar"/>
<pathelement path ="libext/servlet-api.jar"/>
<pathelement path ="libext/catalina-ant.jar"/>
```

```
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& IT
    <pathelement path ="classes"/>
     <pathelement path ="${classpath}"/>
    </path>
    <!-- Check timestamp on files -->
    <target name="prepare">
    <tstamp/>
    <copy ile="src/struts.xml" todir="src/classes"/>
    </target>
    <!-- Copy any resource or configuration files -->
    <target name="resources">
    <copy todir="src/classes" includeEmptyDirs="no">
    <fileset dir="src/java">
    <patternset>
    <include name="**/*.conf"/>
    <include name="**/*.properties"/>
    <include name="**/*.xml"/>
    </patternset>
    </fileset>
    </copy>
    </target>
    <!-- Normal build of application -->
    <target name="compile" depends="prepare,resources">
    <javac srcdir="src" destdir="src/classes"
     debug="true" debuglevel="lines,vars,source">
     <classpath refid="class.path"/>
     </javac>
    <iar
    jarfile="lib/${project.jar.file}" basedir="src/classes"/>
    </target>
    <!-- Remove classes directory for clean build -->
    <target name="clean" description="Prepare for clean build">
      <delete dir="classes"/>
      <mkdir dir="classes"/>
    </target>
    <!-- Build Javadoc documentation -->
    <target name="javadoc"
```



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**Step 4:** Create directory **libext** under the **struts2tutorial\WEB-INF\** then you copy latest Servlets api jar (in our case <u>servlet-api.jar</u>) file over there. This library file will be used to compile Servlets in our application.

Step 5: Now create directories java and classes under struts2tutorial\WEB-INF\src. The directory struts2tutorial\WEB-INF\src\java will be used to put all the java sources file and directory struts2tutorial\WEB-INF\src\classes will be used by ant build utility to store compiled java files.