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**Writing Enterprise Applications with Java 2  
Platform, Enterprise Edition - part4**



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Abstract	Lesson WAR BonusServlet JSP
Reference	Writing Enterprise Applications with Java™ Platform, Enterprise Edition By Monica Pawlan ( <a href="http://developer.java.sun.com/developer/onlineTraining/J2EE/Intro/">http://developer.java.sun.com/developer/onlineTraining/J2EE/Intro/</a> )
Benchmark information	

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## Lesson 4 – JavaServer Pages

JSP (JavaServer Pages™)  
가 . JSP 가  
JSP  
Lesson WAR BonusServlet JSP

### JSP

JSP <% %> JSP 가  
HTML . init , doGet , doPost HttpServlet  
JSP  
JSP (Bonus.jsp) Lesson BonusServlet  
JSP  
. JSP JSP JS  
P JSP

```
<HTML>
<HEAD>
<TITLE>Bonus Calculation</TITLE>
</HEAD>
<%-- Comment
Scriptlet for import statements
<% @ indicates a jsp directive --%>
<% @ page import="javax.naming. *" %>
<% @ page import="javax.rmi.PortableRemoteObject" %>
<% @ page import="Beans. *" %>
<%-- Comment
Scriptlet to get the parameters,
```

```
        convert string to Integer to int for bonus
        calculation, and declare/initialize bonus
        variable. <% indicates a jsp scriptlet --%>
<%! String strMult, socsec; %>
<%! Integer integerMult; %>
<%! int multiplier; %>
<%! double bonus; %>
<%! double calc; %>
<%
strMult = request.getParameter("MULTIPLIER");
socsec = request.getParameter("SOCSEC");
integerMult = new Integer(strMult);
multiplier = integerMult.intValue();
bonus = 100.00;
%>
<%-- Comment
    Scriptlet to look up session Bean --%>
<%
    InitialContext ctx = new InitialContext();
    Object objref = ctx.lookup("calcs");
    Object objref2 = ctx.lookup("bonus");
    CalcHome homecalc = (CalcHome)
        PortableRemoteObject.narrow(
            objref, CalcHome.class);
    BonusHome homebonus = (BonusHome)
        PortableRemoteObject.narrow(
            objref2, BonusHome.class);
%>
<%-- Comment
    Scriptlet to create session Bean,
    call calcBonus method, and retrieve a database
    record by the social security number
    (primary key) --%>
<%
try {
    Calc theCalculation = homecalc.create();
    calc = theCalculation.calcBonus(multiplier, bonus);
    Bonus theBonus = homebonus.create(calc, socsec);
    Bonus record = homebonus.findByPrimaryKey(socsec);
%>
<%-- Comment
    HTML code to display retrieved data
    on returned HTML page. --%>
<H1>Bonus Calculation</H1>
    Social security number retrieved:
```

```
        <%= record.getSocSec() %>
    <P>
        Bonus Amount retrieved: <%= record.getBonus() %>
    <P>
    <!-- Comment
        Scriptlet to catch DuplicateKeyException --%>
<%
    } catch (javax.ejb.DuplicateKeyException e) {
        String message = e.getMessage();
%>
    <!-- Comment
        HTML code to display original data passed to JSP
        on returned HTML page --%>
        Social security number passed in: <%= socsec %>
    <P>
        Multiplier passed in: <%= strMult %>
    <P>
        Error: <%= message %>
    <!-- Comment
        Scriptlet to close try and catch block --%>
<%
    }
%>
    <!-- Comment
        HTML code to close HTML body and page --%>
</BODY>
</HTML>
```

```
Bonus.jsp
    . JSP
    HTML
    HTML
    , JSP
    , HTML
    TML
    HTML
    : <!-- Comment : Scriptlet for import statements ...
    (:
    , Runtime Error 가
    .
    <HTML>
    <HEAD>
```

```
<TITLE>Bonus Calculation</TITLE>
</HEAD>
<!-- Comment
      Scriptlet for import statements
      <% @ indicates a jsp directive --%>
```

### (Directives)

```
JSP , JSP 가 JSP
.
.
<%@ %>
.
<% @ page import="javax.naming.*" %>
<% @ page import="javax.rmi.PortableRemoteObject" %>
<% @ page import="Beans.*" %>
```

```
JSP (expression)
. (expression)
.
가 . JSP 가 ,
.
가 . ( ) <%( ) %> <%! double bonus;
String text; %>
.
<%! String strMult, socsec; %>
<%! Integer integerMult; %>
<%! int multiplier; %>
<%! double bonus; %>
```

```
JSP , JSP Java (nest)
.
. , <% %>
.
<%
strMult = request.getParameter("MULTIPLIER");
socsec = request.getParameter("SOCSEC");
integerMult = new Integer(strMult);
multiplier = integerMult.intValue();
bonus = 100.00;
%>
```

```
(session, request, response, out, in)
    HttpServletRequest request
    HttpServletResponse response, out
    PrintWriter
    in BufferedReader
```

```
<%
    strMult = request.getParameter("MULTIPLIER");
    socsec = request.getParameter("SOCSEC");
    integerMult = new Integer(strMult);
    multiplier = integerMult.intValue();
    bonus = 100.00;
%>
```

```
JSP
    Entity Bean Bonus ( ) ID
    JSP
```

```
<H1>Bonus Calculation</H1>
    Social security number retrieved: <%= record.getSocSec() %>

    <P>
    Bonus Amount retrieved: <%= record.getBonus() %>
    <P>
```

## JSP

```
JavaServer Pages 1.1
    JSP
    가 JSP
    JSP
    . 1.1
    JSP
```

- o **jsp:forward** **jsp:include** , JSP
- o **jsp:useBean** **jsp:setProperty** **jsp:getProperty** JSP JavaBeans  
가
- o **jsp:plugin** Java Applet Java  
Plug-In

## bonus.html

bonus.html      BonusServlet      Bonus.jsp      HTML      ACTION

```
<HTML>
<BODY BGCOLOR = "WHITE">
<BLOCKQUOTE>
<H3>Bonus Calculation</H3>
<FORM METHOD="GET" ACTION="Bonus.jsp">
<P>
Enter social security Number:
<P>
<INPUT TYPE="TEXT" NAME="SOCSEC"></INPUT>
<P>
Enter Multiplier:
<P>
<INPUT TYPE="TEXT" NAME="MULTIPLIER"></INPUT>
<P>
<INPUT TYPE="SUBMIT" VALUE="Submit">
<INPUT TYPE="RESET">
</FORM>
</BLOCKQUOTE>
</BODY>
</HTML>
```

가 , J2EE , Cloudscape

```
j2ee -verbose
deploytool
cloudscape -start
```

, J2EE

### UNIX

```
j2sdkee1.2.1/bin/j2ee -verbose
j2sdkee1.2.1/bin/deploytool
j2sdkee1.2.1/bin/cloudscape -start
```

### Windows

```
j2sdkee1.2.1\bin\j2ee -verbose
```

j2sdkee1.2.1\bin\deploytool  
j2sdkee1.2.1\bin\cloudscape -start

## WAR

JSP Web 가 , Lesson WAR  
, JSP WAR 가 .

### Local Applications:

- o BonusApp , .
- o BonusWar BonusWar 가 .
- o [Edit] [Delete] .

## WAR

[File] :

- o [ Web ] .

[Introduction] :

- o [Next >]

[War File General Properties] :

: 가 Bonus.jsp ( ) 가 ,  
bonus.html 가 bonus.html 가 ( ),  
Bonus.jsp ( ) , bonus.html .

- o [display name] BonusWar .
- o [Add] .
- o ClientCode Bonus.jsp 가 .
- o [Next >] .
- o ClientCode bonus.html 가 .
- o [Finish] .

[War File General Properties] :

- o [Next >] .

[Choose Component Type] :

- o [JSP]가 . [Next >] .

[Component General Properties] :

- o [JSP ] Bonus.jsp .
- o BonusJSP .
- o [Finish] .

[Inspecting window]

- o [Web Content] .
- o JSPRoot .

## J2EE

Enterprise Bean Verifier . Verifier  
가 compiler 가

- o BonusApp 가 [Tool] [Verifier] .
- o 가 [OK] . 가
- o 가 , Verifer

- o [Tool] [Deploy Application] . 가

- o 가 J2EE

- o [Next >] . CalcBean JNDI calcs , BonusBean JNDI  
I bonus .



Bonus Calculation  
Social Security number retrieved: 77777777  
Bonus Amount Retrieved: 200.0

social security number , .

Bonus Calculation  
Soc Sec passed in: 77777777  
Multiplier passed in: 2  
Error: Duplicate primary key

JavaServer Pages technology

JavaBeans

JSP

JavaBeans가

URL

<http://japan.hanmir.com/jtk.cgi?url=http://java.sun.com/j2ee/j2sdkee/techdocs/guides/ejb/html/Client.fm.html#10649>

[http://japan.hanmir.com/jtk.cgi?url=http://developer.iplanet.com/viewsource/fields\\_jspcomp/fields\\_jspcomp.html](http://japan.hanmir.com/jtk.cgi?url=http://developer.iplanet.com/viewsource/fields_jspcomp/fields_jspcomp.html)