JavaServer Pages - JSP Implicit Object

Objectives:

- 1. Understanding about JSP.
- 2. Understanding about JSP implicit Objects.

4.1 Building Shopping Cart in JSP

- **Step 1.** Create a web application in Netbeans
- **Step 2.** Edit the **index.jsp** file as below:

```
<%@page import="java.util.ArrayList"%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-</pre>
8">
        <style>
            h1
                color: yellowgreen;
                font-style: italic;
            }
            div
            {
                margin-left: auto;
                margin-right: auto;
                width: 300px;
            input[type=text]
                width:150px;
                text-align:left;
                border: thin solid gray;
                padding: 2px 5px 2px 5px;
                border-radius: 3px 3px 3px 3px;
            }
            input[type=submit]
                width:75px;
                text-align:center;
                border: thin solid gray;
                padding: 3px 5px 3px 5px;
                border-radius: 3px 3px 3px 3px;
                background-color: orange;
            }
```

```
input[type=submit]:hover
            {
               width:75px;
                text-align:center;
               border: thin solid gray;
               padding: 3px 5px 3px 5px;
               border-radius: 3px 3px 3px 3px;
               background-color: yellowgreen;
       </style>
        <title>JSP Page</title>
    </head>
    <body>
       <div>
            <h1>Shopping card demo</h1>
                if (request.getParameter("btnOK") != null) {
                    codes.item item = new codes.item();
item.setId(Integer.parseInt(request.getParameter("txtID")));
item.setPrice(Integer.parseInt(request.getParameter("txtPrice")));
item.setQuantity(Integer.parseInt(request.getParameter("txtQuantity")));
                    java.util.ArrayList orders = new ArrayList();
                    if (session.getAttribute("Orders") != null) {
                                                  ((java.util.ArrayList)
session.getAttribute("Orders"));
                    orders.add(item);
                    session.setAttribute("Orders", orders);
                   response.sendRedirect("cart.jsp");
               }
            응>
            <form method="post">
```

```
ID
              <t.d>
                 <input type="text" name="txtID" />
              Price
              <input type="text" name="txtPrice"/>
              Quantity
              <input type="text" name="txtQuantity"/>
              <input type="submit"value="OK" name="btnOK"/>
              </form>
    </div>
  </body>
</html>
```

Step 3. Create a jsp file named **cart.jsp** and add some code as below:

```
<%@page import="java.util.ArrayList"%>
  <%@page contentType="text/html" pageEncoding="UTF-8"%>
  <!DOCTYPE html>
  <html>
```

```
<head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-</pre>
8">
        <title>JSP Page</title>
        <style>
            h1
            {
                color: yellowgreen;
               font-style: italic;
            }
            div
            {
               margin-left: auto;
               margin-right: auto;
               width: 300px;
            table
            {
               border: 1px solid gray;
               padding: 3px 3px 3px 3px;
            }
            th
               color: brown;
            .back
                width:75px;
               text-align:center;
                border: thin solid gray;
                padding: 2px 5px 2px 5px;
                border-radius: 3px 3px 3px 3px;
                background-color: orange;
            .back:hover
            {
                width:75px;
                text-align:center;
```

```
border: thin solid gray;
              padding: 3px 5px 3px 5px;
              border-radius: 3px 3px 3px 3px;
              background-color: yellowgreen;
       </style>
   </head>
   <body>
       <div>
          <h1>Your card</h1>
           ID
                  Price
                  Quantity
                  Total
                  Operator
              <응
                  java.util.ArrayList orders = new ArrayList();
                  codes.item item = new codes.item();
                  if (session.getAttribute("Orders") != null) {
                                              ((java.util.ArrayList)
session.getAttribute("Orders"));
                  }
                  int count = orders.size() - 1;
                  while (count > 0) {
                     item = (codes.item) orders.get(count);
                      if (request.getParameter("id") != null) {
                         if
                                        (item.getId()
                                                                 ==
Integer.parseInt(request.getParameter("id"))) {
                             orders.remove(item);
                             count--;
                             continue;
                         }
                      out.print("");
```

```
out.print("" + item.getId() + "");
                     out.print("" + item.getPrice() + "");
                     out.print("" + item.getQuantity() + "");
                     out.print("" +
                                          item.getQuantity()
item.getPrice() + "");
                    out.print(" <a href='?id=" + item.getId() +</pre>
"'>Delete</a>");
                    count--;
                    out.print("");
             응>
          <br/>
          <a class="back" href="index.jsp">continue</a>
      </div>
   </body>
</html>
```

Step 4. Run and test the result.

4.2 Using include directive in JSP

- **Step 5.** Create a web application in Netbeans
- **Step 6.** Edit the **index.jsp** file as below:

Step 7. Create a jsp file named **form.jsp** and add some code as below:

```
<%@page contentType="text/html"%>
<%@page pageEncoding="UTF-8"%>
<html>
```

```
<head>
       <meta http-equiv="Content-Type" content="text/html; charset=UTF-</pre>
8">
       <title>JSP Page</title>
   </head>
   <body>
       String fNumber = request.getParameter("fNumber");
       String sNumber = request.getParameter("sNumber");
       String oper = request.getParameter("oper");
       String result="";
       if(oper!=null) {
           if(oper.equalsIgnoreCase("+"))
              result=(Integer.parseInt(fNumber)
Integer.parseInt(sNumber))+"";
           else if(oper.equalsIgnoreCase("-"))
              result=(Integer.parseInt(fNumber)
Integer.parseInt(sNumber))+"";
           else if(oper.equalsIgnoreCase("*"))
              result=(Integer.parseInt(fNumber)
Integer.parseInt(sNumber))+"";
           else if(oper.equalsIgnoreCase("/"))
              result=(Integer.parseInt(fNumber)
Integer.parseInt(sNumber))+"";
           else
              result="NaN";
       }
       응>
       <h1>This is demo simple JSP</h1>
       <form action="Input.jsp" method="post">
           <br>
           First number:
                  <input
                                  type="text"
                                                     name="fNumber"
value="<%=fNumber%>"/>
```

```
Second number:
        <input type="text" name="sNumber"</pre>
value="<%=sNumber%>"/><br>
        Operator:
        <input type="text" name="oper"</pre>
value="<%=oper%>"/><br>
        Result
        <input type="Submit" value=Submit>
        </form>
 </body>
</html>
```

Step 8. Test the result.