

# SERVLETS AND JSP COURSE

## SHOPPING CART WITH HTTP SESSION



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By the expert: Ubaldo Acosta

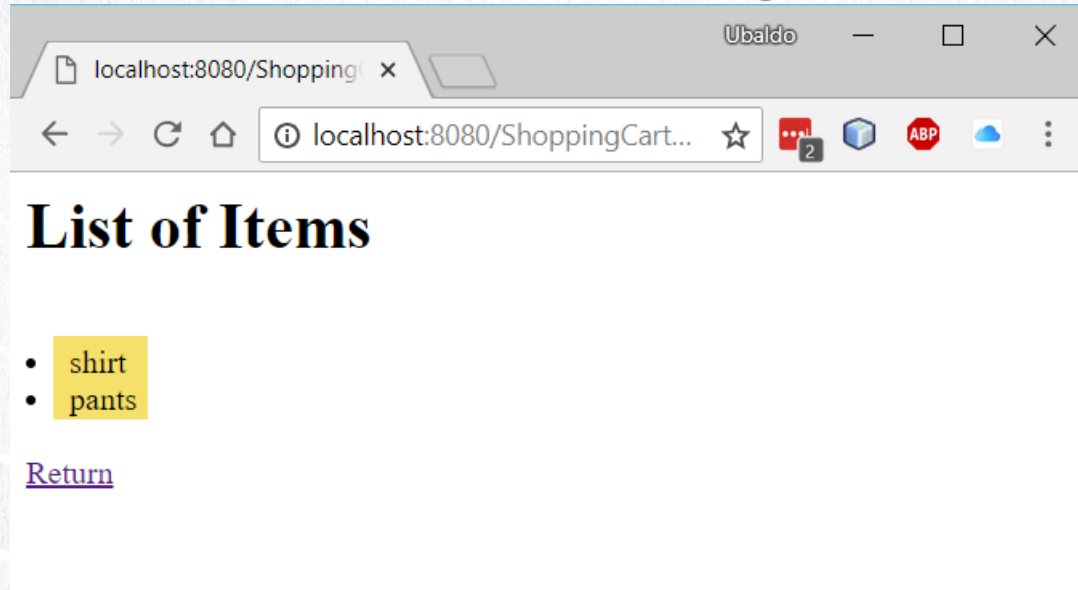


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# EXERCISE OBJECTIVE

Create a project to put into practice the shopping cart concept. At the end we will observe the following:





# 1. CREATE A NEW PROJECT

Create a new web Project using Maven:

**New Web Application** [X]

**Steps**

1. Choose Project
2. **Name and Location**
3. Settings

**Name and Location**

Project Name: ShoppingCart

Project Location: C:\Courses\Servlets\Lesson10 [Browse...]

Project Folder: C:\Courses\Servlets\Lesson10\ShoppingCart

Artifact Id: ShoppingCart

Group Id: web

Version: 1

Package: (Optional)

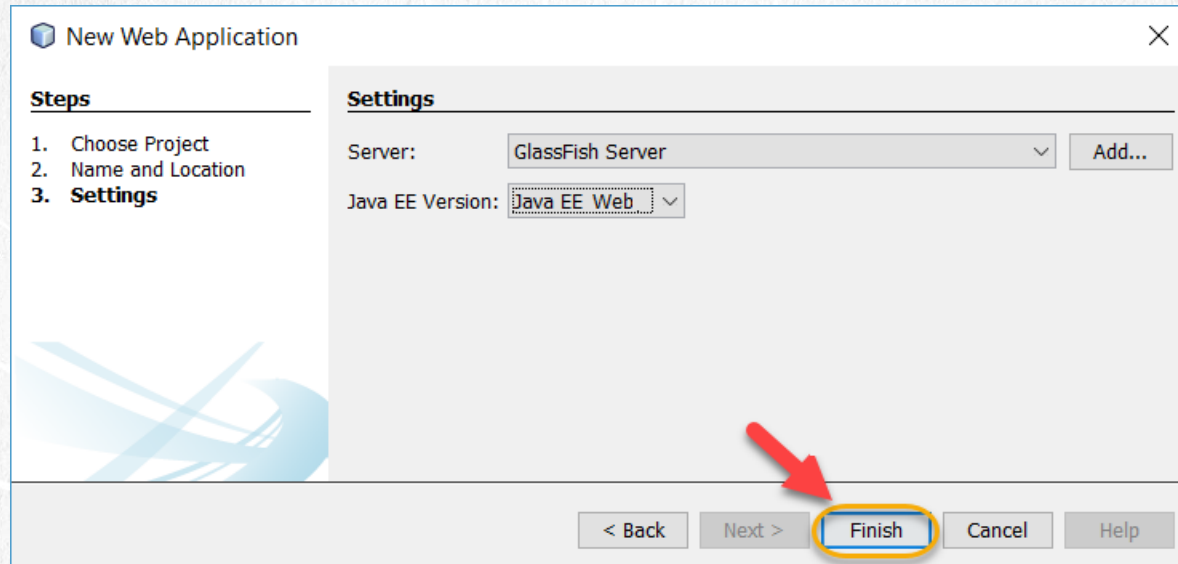
< Back [Next >] Finish Cancel Help

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# 1. CREATE A NEW PROJECT (CONT)

Create a new project:



**New Web Application**

**Steps**

1. Choose Project
2. Name and Location
3. **Settings**

**Settings**

Server: GlassFish Server Add...

Java EE Version: Java EE Web

< Back Next > **Finish** Cancel Help

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## 2. CREATE A NEW CLASS

Create a new class that will be a servlet:

**New Java Class**

**Steps**

1. Choose File Type
2. **Name and Location**

**Name and Location**

Class Name:

Project:

Location:

Package:

Created File:

< Back   Next >   **Finish**   Cancel   Help

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# 3. MODIFY THE FILE

## ShoppingCartServlet.java:

```
package web;

import java.io.*;
import java.util.*;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.*;

@WebServlet("/ShoppingCartServlet")
public class ShoppingCartServlet extends HttpServlet {

    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        response.setContentType("text/html;charset=UTF-8");

        //We process the new article
        String newItem = request.getParameter("item");

        //We create or recover the http session
        HttpSession session = request.getSession();

        //We retrieve the list of previous articles
        //if they exist in the session
        List<String> items = (List<String>) session.getAttribute("items");
```

### 3. MODIFY THE FILE

#### ShoppingCartServlet.java:

```
//verify if the list of articles exists
if (items == null) {
    //If they do not exist, we initialize the list
    //and we add it to the session
    items = new ArrayList<>();
    session.setAttribute("items", items);
}

//We already have the list of items ready to work
//We add the new item
//and we add it by reference to the list of items
if (newItem != null && !newItem.trim().equals(""))
    items.add(newItem);

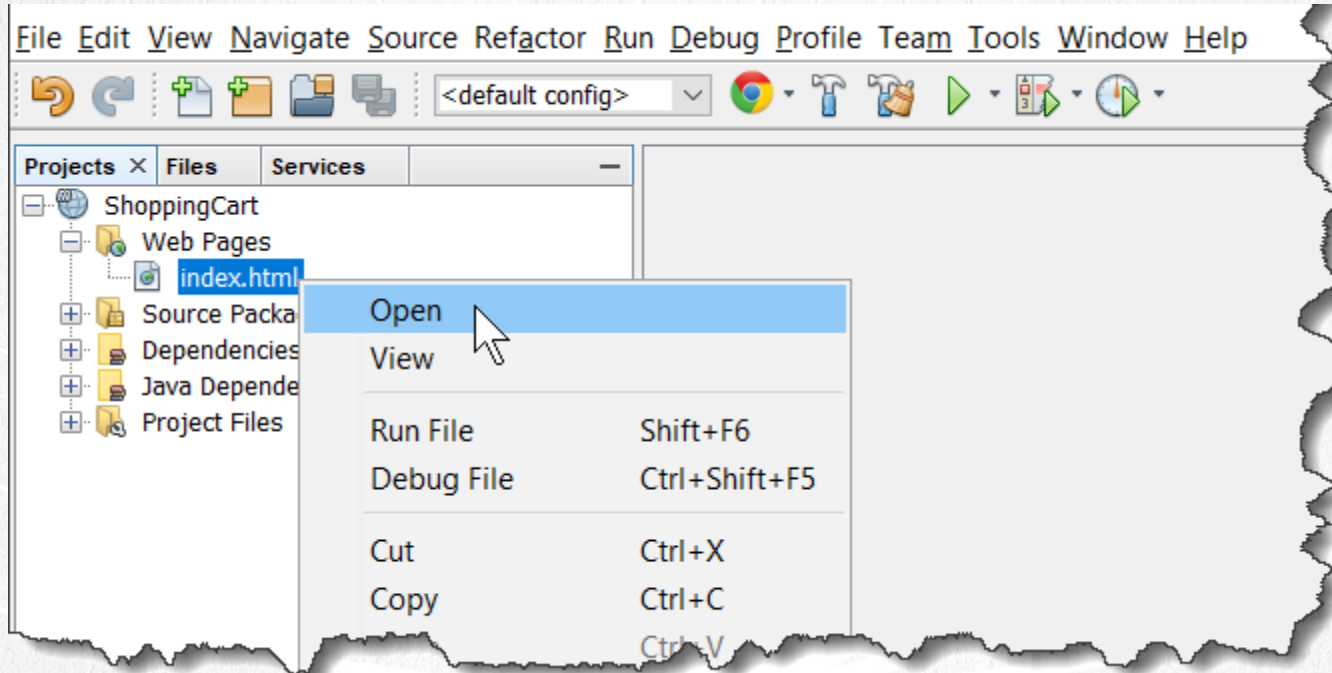
try (PrintWriter out = response.getWriter()) {
    //We show the total items to the customer
    out.println("<h1>List of Items</h1>");
    out.println("<br>");

    //We iterate all the articles, including the new
    for (String item : items) {
        out.print("<LI>" + item + "</LI>");
    }

    //We add a link to return to the beginning
    out.println("<br>");
    out.println("<a href=' /ShoppingCart'>Return</a>");
    out.close();
}
}
```

## 4. MODIFY THE FILE

Modify the index.html file:



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## 4. MODIFY THE FILE

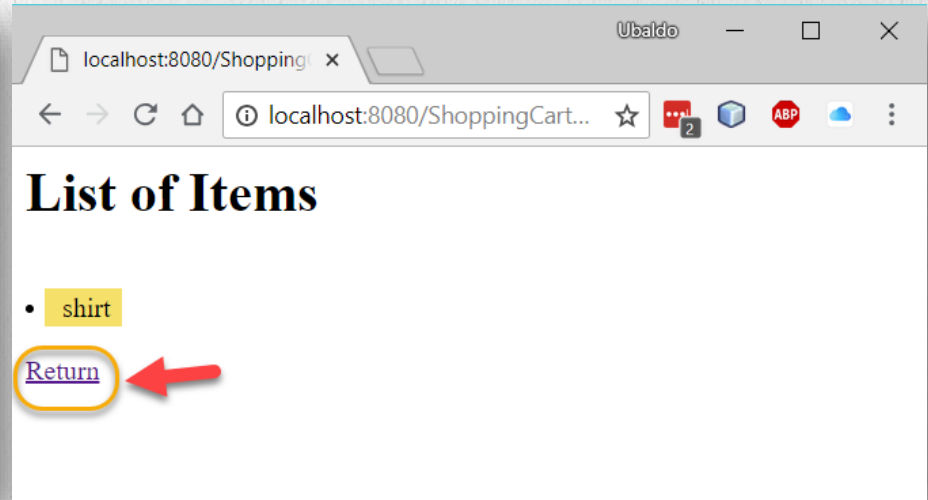
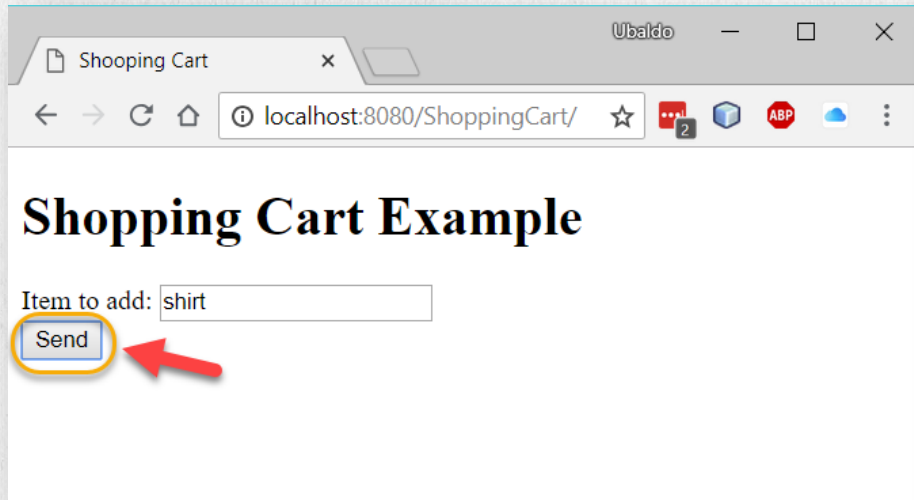
### index.html:

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>Shooping Cart</title>
  </head>
  <body>
    <h1>Shopping Cart Example</h1>
    <form action="/ShoppingCart/ShoppingCartServlet" method="post" name="form1">

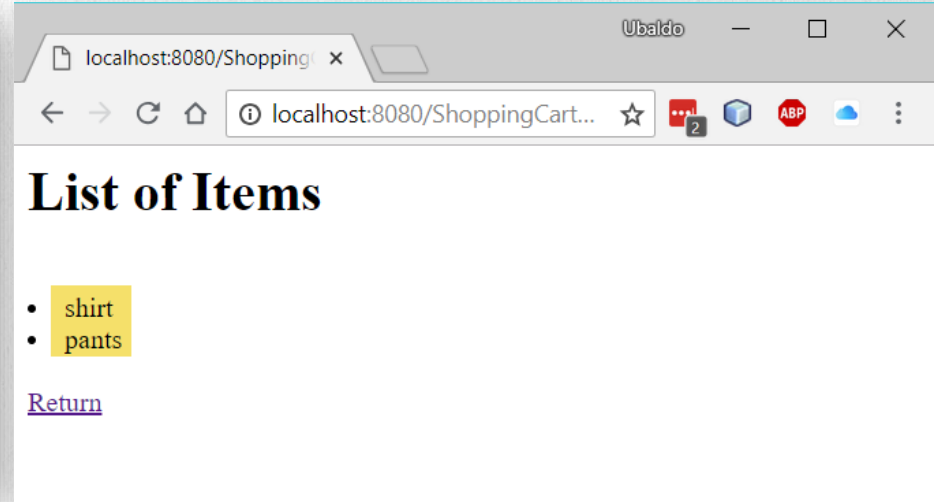
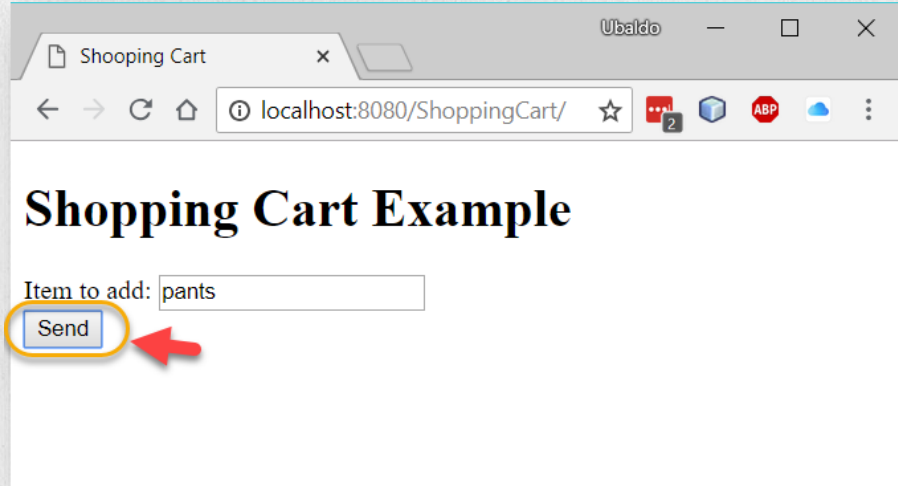
      Item to add:
      <input type="text" name="item">
      <br>
      <input type="submit" value="Send">

    </form>
  </body>
</html>
```

## 5. EXECUTE THE APPLICATION



## 5. EXECUTE THE APPLICATION





# EXERCISE CONCLUSION

With this exercise we have simulated an online shopping cart, in which several objects have been added to a session and are associated with the user who is adding elements to the session.

Later we will improve this example when we discuss the JSP topic.



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