

HW1 – Due by 11:59pm on Sunday, January 27, 2019

Part 1. Reading Assignment

<http://pdf.coreservlets.com/HTTP-Request-Headers.pdf>
<http://pdf.coreservlets.com/HTTP-Status-Codes.pdf>
<http://pdf.coreservlets.com/HTTP-Response-Headers.pdf>

Part 2. Programming Assignment

Write a servlet that displays request headers using:

Enumeration `getHeaderNames()`

Enumeration `getHeaders(String name)`

<https://docs.oracle.com/javase/7/api/javax/servlet/http/HttpServletRequest.html>

Part 3. Programming Assignment

Create a servlet to read and display user input from the following form (your form design does not need to be the same as the form below. As long as you provide the same fields, that is fine. You may ignore the layout, but if you know Bootstrap and CSS, you may use it.).

This is my form

Email:	<input type="text"/>
Password:	<input type="password"/>
Confirm Password:	<input type="password"/>
Upload Your Picture:	<input type="text"/> <input type="button" value="Browse..."/>
Gender:	<input type="radio"/> Male <input type="radio"/> Female
Select Country:	<input type="text" value="United Kingdom"/> <input type="button" value="v"/>
Hobby:	<input type="checkbox"/> Cricket <input type="checkbox"/> Football
Address	<input type="text"/>
<input type="button" value="Submit"/>	

You may ignore the layout and form design.
Create the form in any way you like.
Use of Bootstrap and CSS is not required.

PART 4. Programming Assignment

Redo Part 3 by using `getParameterNames()` method.

<https://docs.oracle.com/javase/7/api/javax/servlet/ServletRequest.html#getParameterNames-->

PART 5. Programming Assignment

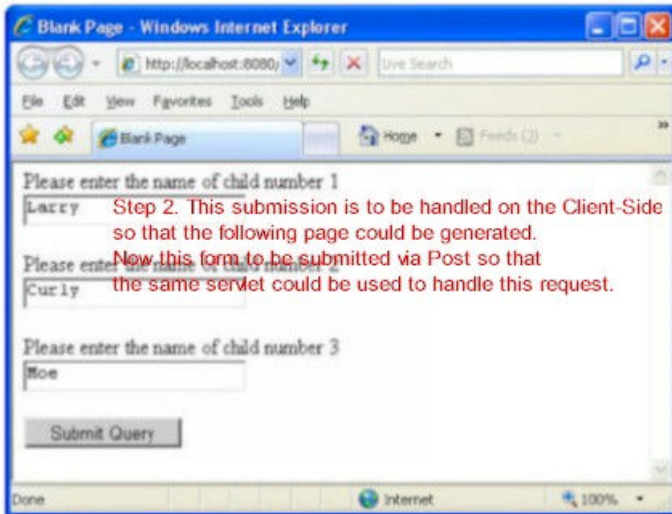
Redo Part 3 by using `getParameterMap()` method.

<https://docs.oracle.com/javase/7/api/javax/servlet/ServletRequest.html#getParameterMap-->

PART 6. Programming Assignment

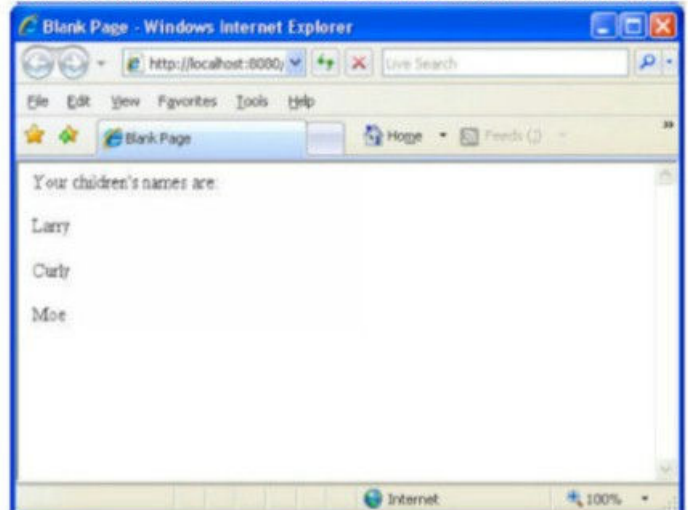
Use only 1 servlet to implement the application whose screenshots are shown in the attached document. Initially form is displayed in the doGet method, and initially form submission will be handled in JavaScript that creates the page as shown in the second screenshot. Now, this form (2nd screenshot) is to be submitted via POST so that the same servlet could handle this request in the same servlet.

Step 1. Create this form in doGet



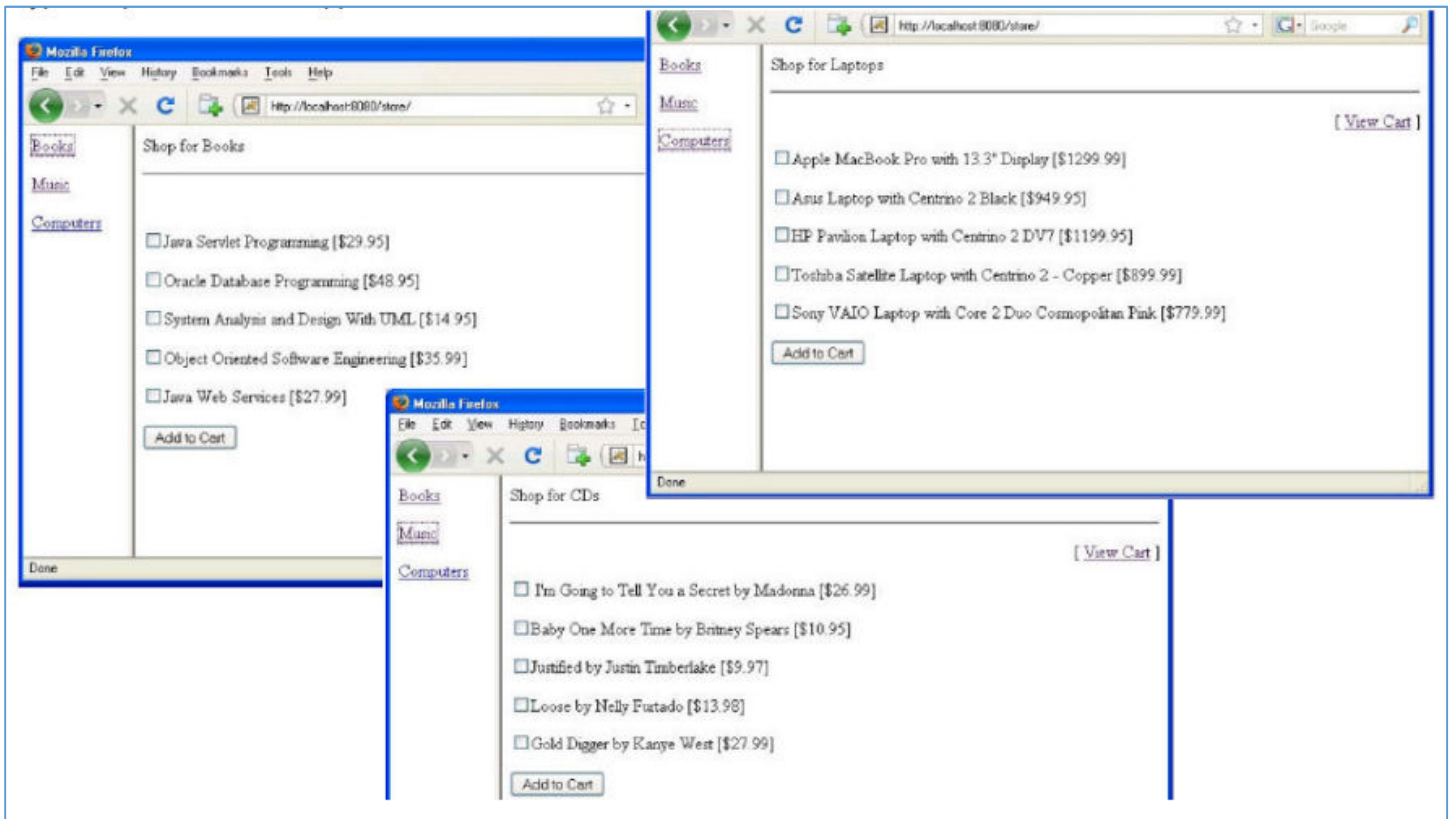
Step 2. This submission is to be handled on the Client-Side so that the following page could be generated.
Now this form to be submitted via Post so that the same servlet could be used to handle this request.

Step 3. Now handle the form in doPost and display the submitted data.



PART 7. Programming Assignment

You will be using a session object to store and retrieve selected items from a simple shopping cart application. Shopping cart applications typically allow users to select items from a catalog and place them in a virtual shopping cart. When the user selects some items and presses the "Add to Cart" button, the servlet will add the selected items to the session object and then retrieve all of the items currently in the session object and then display them in the browser. Removing an item from the shopping cart will be from the same servlet. Use URL-rewriting or hidden fields as necessary. There are 3 different types of products in this application as shown below:



If you select an item, then click on "Add to Cart", your servlet will retrieve the products selected, and then add to the session object.

