Ex.no:6 Shopping Cart

Aim:

Install TOMCAT web server. Convert the static web pages of programs into dynamic web pages using servlets (or JSP) and cookies. Hint: Users information (user id, password, credit card number) would be stored in web.xml. Each user should have a separate Shopping Cart

Program:

**ShoppingCart.java:**

import java.io.\*;

import javax.servlet.ServletException;

import javax.servlet.http.\*;

import java.util.Enumeration;

import javax.servlet.annotation.WebServlet;

@WebServlet(urlPatterns = {"/ShoppingCart"})

public class ShoppingCart extends HttpServlet {

**String [] items = new String [] {**

**"Samsung A30", "MI 108 CM Android TV",**

**"HP USB Pend Drive 32GB", "DELL Core i5, 8GB RAM, 1TB HDD Laptop" };**

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

PrintWriter out = response.getWriter();

out.println("<center><h3>ABC SHOPPING CART </h3></center>");

out.println("<hr>");

// get or create the session information

HttpSession session = request.getSession();

int [] purchases = (int [])session.getAttribute("purchases");

if ( purchases == null ) {

purchases = new int [ items.length ];

session.setAttribute( "purchases", purchases );

}

out.println( "<html><head><title>Shopping Cart</title>"

+ "</title></head><body><p>" );

if ( request.getParameter("checkout") != null )

out.println("<h1>Thanks for ordering!</h1>");

else {

if ( request.getParameter("add") != null ) {

addPurchases( request, purchases );

out.println(

"<h1>Purchase added. Please continue</h1>");

} else {

if ( request.getParameter("clear") != null )

for (int i=0; i<purchases.length; i++)

purchases[i] = 0;

out.println("<h1> Please Select Your Items! </h1>");

}

doForm( out, request.getRequestURI() );

}

showPurchases( out, purchases );

out.close();

}

void addPurchases( HttpServletRequest request, int [] purchases ) {

for (int i=0; i<items.length; i++) {

String added = request.getParameter( items[i] );

if ( added !=null && !added.equals("") )

purchases[i] += Integer.parseInt( added );

}

}

void doForm( PrintWriter out, String requestURI ) {

out.println( "<form method=POST action="+ requestURI +">" );

for(int i=0;i< items.length;i++)

out.println( "Quantity <input name=\"" + items[i]+ "\" value=0 size=3> of: " + items[i] + "<br>");

out.println(

"<p><input type=submit name=add value=\"Add To Cart\">"

+ "<input type=submit name=checkout value=\"Check Out\">"

+ "<input type=submit name=clear value=\"Clear Cart\">"

+ "</form>" );

}

void showPurchases( PrintWriter out, int [] purchases )

throws IOException {

out.println("<hr><h2>Your Shopping Basket</h2>");

for (int i=0; i<items.length; i++)

if ( purchases[i] != 0 )

out.println( purchases[i] +" "+ items[i] +"<br>" );

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on

//the left to edit the code.">

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

@Override

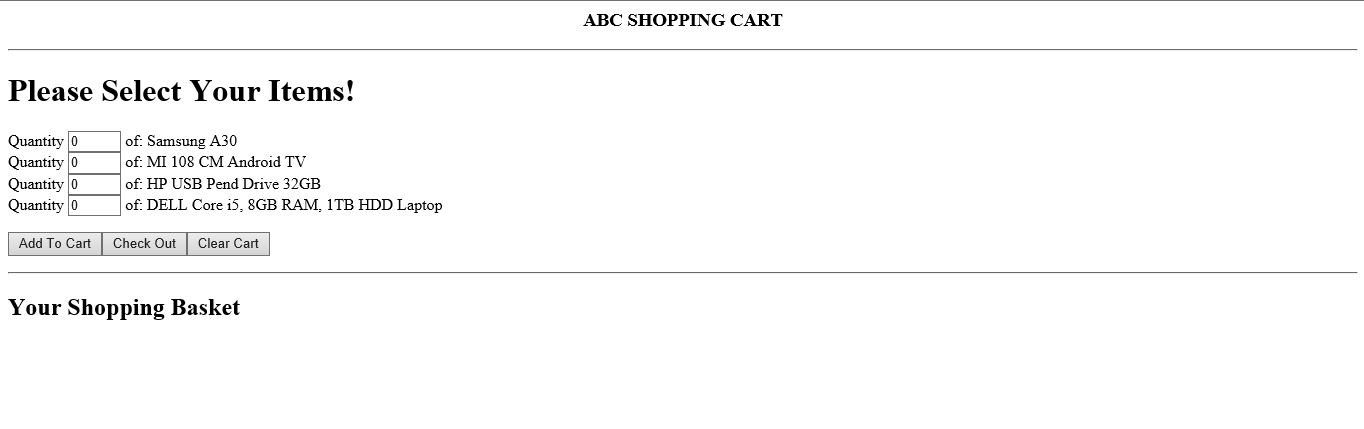
public String getServletInfo() {

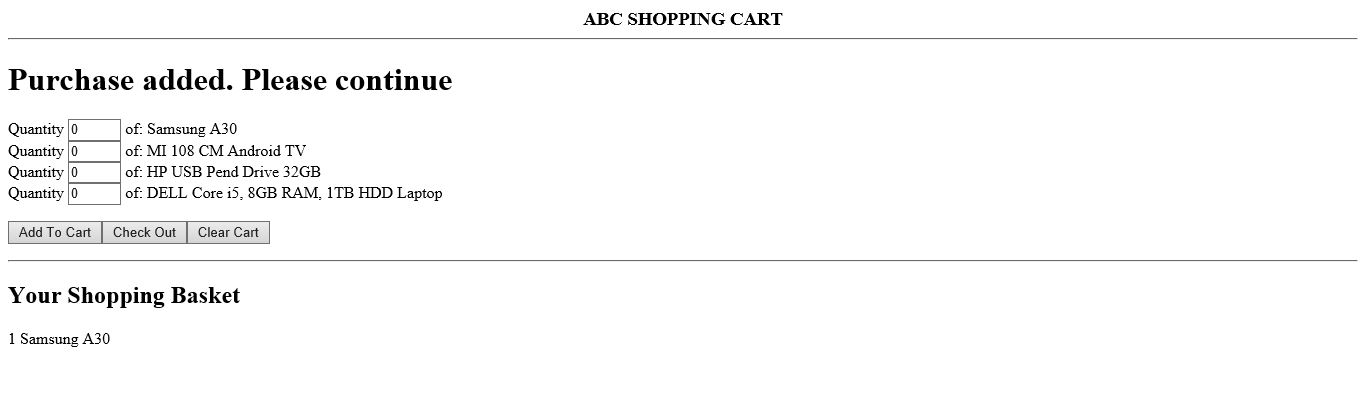
return "Short description";

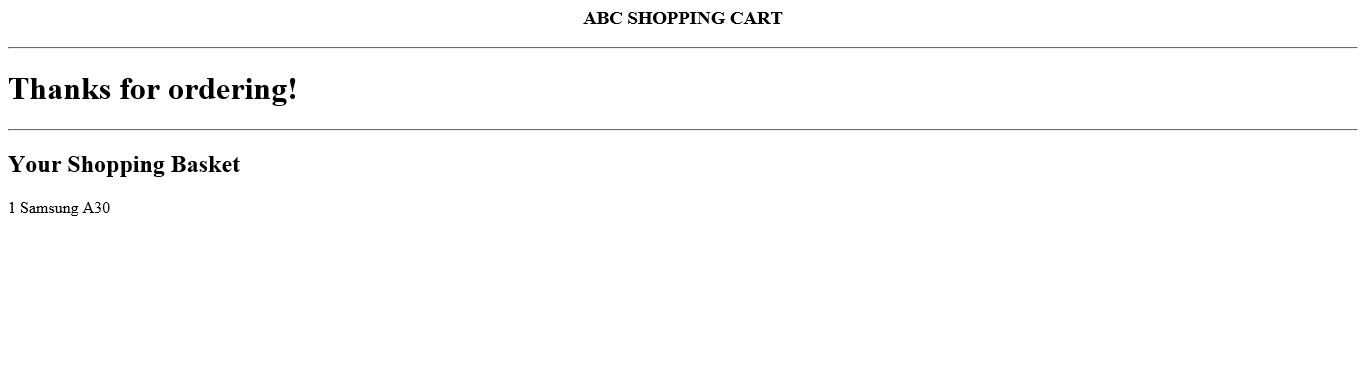
}// </editor-fold>

}

**Output:**

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