

Guide_line for Part 3-Lab8

Product.java:

```
package test2;

public class Product {
    private String name;
    private String manufacturer;
    private String country;
    private float price;
    private int quantity;

    public float getTotal() {
        return price*quantity;
    }

    public String getCountry() {
        return country;
    }

    public void setCountry(String country) {
        this.country = country;
    }

    public String getManufacturer() {
        return manufacturer;
    }

    public void setManufacturer(String manufacturer) {
        this.manufacturer = manufacturer;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public float getPrice() {
        return price;
    }

    public void setPrice(float price) {
        this.price = price;
    }

    public int getQuantity() {
        return quantity;
    }

    public void setQuantity(int quantity) {
        this.quantity = quantity;
    }

}
```

AccountBean.java:

```

package test2;

public class AccountBean {
    private String name;
    private String visaNumber;
    private String address;

    public String getAddress() {
        return address;
    }

    public void setAddress(String address) {
        this.address = address;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getVisaNumber() {
        return visaNumber;
    }

    public void setVisaNumber(String visaNumber) {
        this.visaNumber = visaNumber;
    }
}

```

ShoppingServlet.java:

```

package test2;

import java.io.*;
import java.net.*;

import java.util.StringTokenizer;
import java.util.Vector;
import javax.servlet.*;
import javax.servlet.http.*;

public class ShoppingServlet extends HttpServlet {

    /**
     * Processes requests for both HTTP GET and POST
     methods.
     * @param request servlet request
     * @param response servlet response
     */
    protected void processRequest(HttpServletRequest request,
        HttpServletResponse response)
        throws ServletException, IOException {
        HttpSession session = request.getSession(false);
        if (session == null) {
            response.sendRedirect("http://localhost:8080/webtest/error.html");
        }
        Vector buylist=
        (Vector) session.getAttribute("shopping.shoppingcart");
    }
}

```

```

String action = request.getParameter("action");

if(action.equals("ACCOUNT")) {
    String name = request.getParameter("name");
    String visaNumber = request.getParameter("visaNumber");
    String address = request.getParameter("address");
    AccountBean accountBean = new AccountBean();
    accountBean.setName(name);
    accountBean.setVisaNumber(visaNumber);
    accountBean.setAddress(address);
    session.setAttribute("accountBean", accountBean);
    String url="/test2/products.jsp";
    ServletContext sc = getServletContext();
    RequestDispatcher rd = sc.getRequestDispatcher(url);
    rd.forward(request, response);
} else if (!action.equals("CHECKOUT")) {
    if (action.equals("DELETE")) {
        String del = request.getParameter("delindex");
        int d = (new Integer(del)).intValue();
        buylist.removeElementAt(d);
    } else if (action.equals("ADD")) {
        //any previous buys of same product?

        boolean match=false;
        Product aProduct = getProduct(request);

        if (buylist==null) {
            //add first cd to the cart
            buylist = new Vector(); //first order
            buylist.addElement(aProduct);

        } else { // not first buy
            for (int i=0; i< buylist.size(); i++) {
                Product product = (Product) buylist.elementAt(i);
                if (product.getName().equals(aProduct.getName())) {

product.setQuantity(product.getQuantity()+aProduct.getQuantity());
                    buylist.setElementAt(product,i);
                    match = true;
                    break;
                } //end of if name matches
            } // end of for
            if (!match)
                buylist.addElement(aProduct);
        }
    }
    session.setAttribute("shopping.shoppingcart", buylist);
    String url="/test2/products.jsp";
    ServletContext sc = getServletContext();
    RequestDispatcher rd = sc.getRequestDispatcher(url);
    rd.forward(request, response);
} else if (action.equals("CHECKOUT")) {
    float total =0;
    for (int i=0; i< buylist.size();i++) {
        Product anOrder = (Product) buylist.elementAt(i);
        float price= anOrder.getPrice();
        int qty = anOrder.getQuantity();
        total += (price * qty);
    }
    total += 0.005;
    String amount = new Float(total).toString();
    int n = amount.indexOf('.');
    amount = amount.substring(0,n+3);
    request.setAttribute("amount",amount);
}

```

```

        String url="/test2/checkout.jsp";
        ServletContext sc = getServletContext();
        RequestDispatcher rd = sc.getRequestDispatcher(url);
        rd.forward(request,response);
    }
}

private Product getProduct(HttpServletRequest req) {
    //imagine if all this was in a scriptlet...ugly, eh?

    String myProduct = req.getParameter("Product");

    String qty = req.getParameter("qty");
    StringTokenizer t = new StringTokenizer(myProduct,"|");
    String name= t.nextToken();
    String manufacturer = t.nextToken();

    String country = t.nextToken();
    String price = t.nextToken();
    price = price.replace('$',' ').trim();
    Product product = new Product();

    product.setName(name);
    product.setManufacturer(manufacturer);
    product.setCountry(country);
    product.setPrice((new Float(price)).floatValue());
    product.setQuantity((new Integer(qty)).intValue());
    return product;
}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click
on the + sign on the left to edit the code.">
/**
 * Handles the HTTP <code>GET</code> method.
 * @param request servlet request
 * @param response servlet response
 */
protected void doGet(HttpServletRequest request, HttpServletResponse
response)
    throws ServletException, IOException {
    processRequest(request, response);
}

/**
 * Handles the HTTP <code>POST</code> method.
 * @param request servlet request
 * @param response servlet response
 */
protected void doPost(HttpServletRequest request, HttpServletResponse
response)
    throws ServletException, IOException {
    processRequest(request, response);
}

/**
 * Returns a short description of the servlet.
 */
public String getServletInfo() {
    return "Short description";
}
// </editor-fold>
}

```