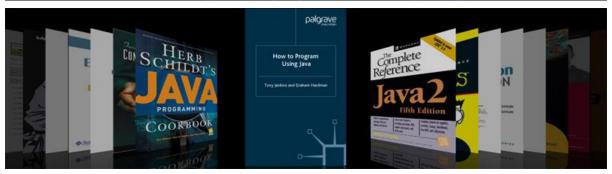




THỰC HÀNH CHUYÊN ĐỀ CƠ SỞ 2 (JAVA NÂNG CAO)

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Lab 4: MVC and JSP Models

Program Code	Chuyên đề cơ sở 2 (Java nâng cao)
Issue/Revision	8/2018
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Yêu cầu: Viết ứng dụng web JSP theo mô hình MVC có các chức năng:

- 1. Hiển thị danh sách các quyển sách theo cấu trúc sau Book(BookID, Name, ISBN, PublishedDate, Price)
- 2. Chọn quyển sách đưa vào giỏ hàng
- 3. Hiển thị giỏ hàng
- 4. Xóa một quyển sách trong giỏ hàng

Code tham khảo:

}

```
Model
package Models;
* @author vophuongbinh
public class Book {
  public String BookID, Name, ISBN, PublishedDate;
  public int Count, Price, Sum;
  public Book() {
  public Book(String BookID, String Name, String ISBN, String PublishedDate, int Count, int Price, int
Sum) {
     this.BookID = BookID;
     this.Name = Name;
     this.ISBN = ISBN;
     this.PublishedDate = PublishedDate;
     this.Count = Count;
     this.Price = Price;
     this.Sum = Sum;
  }
}
package Models;
import java.util.ArrayList;
import java.util.List;
* @author vophuongbinh
public class MBook {
  public static List<Book> items = new ArrayList<Book>();
  public void addItem(Book book){
     items.add(book);
  public List<Book> getAll(){
     return this.items;
```

Controller

```
package Controllers;
import Modles.Book;
import Modles.MBook;
import java.io.IOException;
import java.io.PrintWriter;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.util.List;
  @author Vo
@WebServlet(urlPatterns = {"/Controllers/CAddBook"})
public class CAddBook extends HttpServlet {
  protected void processRequest(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
     response.setContentType("text/html;charset=UTF-8");
    String id = request.getParameter("id");
    String name = request.getParameter("name");
    String isbn = request.getParameter("isbn");
    String date = request.getParameter("date");
    String sprice = request.getParameter("price");
    int price = Integer.parseInt(sprice);
    if("".equals(id) || id == null){
       response.sendRedirect("../Views/addError.jsp");
       return;
    PrintWriter out = response.getWriter();
    try {
       MBook books = new MBook();
       List<Book> list = books.getAll();
       boolean found = false;
       for(int i=0; i<list.size();i++){
          if(list.get(i).BookID.compareTo(id)==0){
            list.get(i).Count += 1;
            list.get(i).Sum = list.get(i).Count * list.get(i).Price;
            found = true;
            break;
         }
       if(found == false)
          books.addItem(new Book(id, name, isbn, date, 1, price, price));
       response.sendRedirect("../Views/showCartBook.jsp");
    } finally {
       out.close();
  }
  // <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
   * @throws ServletException if a servlet-specific error occurs
   * @throws IOException if an I/O error occurs
   */
  @Override
  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
   * @throws ServletException if a servlet-specific error occurs
   * @throws IOException if an I/O error occurs
   */
  @Override
  protected void doPost(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
    processRequest(request, response);
  }
   * Returns a short description of the servlet.
   * @return a String containing servlet description
   */
  @Override
  public String getServletInfo() {
    return "Short description";
  }// </editor-fold>
* To change this license header, choose License Headers in Project Properties.
* To change this template file, choose Tools | Templates
* and open the template in the editor.
package Controllers;
import Modles.Book;
import Modles.MBook;
import java.io.IOException;
import java.io.PrintWriter;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.util.List;
* @author Vo
```

}

```
@WebServlet(urlPatterns = {"/Controllers/CRemoveBook"})
public class CRemoveBook extends HttpServlet {
  protected void processRequest(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
     response.setContentType("text/html;charset=UTF-8");
    String id = request.getParameter("id");
    if("".equals(id) || id == null){
       response.sendRedirect("../Views/addError.jsp");
       return:
    PrintWriter out = response.getWriter();
    try {
       MBook books = new MBook():
       List<Book> list = books.getAll();
       for(int i=0; i<list.size();i++){</pre>
          if(list.get(i).BookID.compareTo(id)==0){
            list.remove(i);
            break;
         }
       }
       response.sendRedirect("../Views/showCartBook.jsp");
    } finally {
       out.close();
  }
  // <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
   * @throws ServletException if a servlet-specific error occurs
   * @throws IOException if an I/O error occurs
   */
  @Override
  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
    @throws ServletException if a servlet-specific error occurs
   * @throws IOException if an I/O error occurs
   */
  @Override
  protected void doPost(HttpServletRequest request, HttpServletResponse response)
       throws ServletException, IOException {
    processRequest(request, response);
  }
   * Returns a short description of the servlet.
```

```
* @return a String containing servlet description
  @Override
  public String getServletInfo() {
    return "Short description";
  }// </editor-fold>
}
View
<%--
  Document : AddItems
  Created on: Sep 28, 2018, 2:01:10 PM
  Author: Vo
--%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page</title>
  </head>
  <body>
    Book ID
        Book Name
        ISBN
        Publish Date
        Price
        Add to Cart
      <%
      int id;
      String name, isbn, date;
      int price;
      for(int i=1;i<=10;i++){
        id = i;
        name = "Book " + i;
        isbn = "1234567890";
        date = "2/2/2022";
        price = 100*i;
        out.print("");
        out.print(""+id+"");
        out.print(""+name+"");
        out.print(""+isbn+"");
        out.print(""+date+"");
        out.print(""+price+"");
        out.print("<a
href='/WebApplication1/Controllers/CAddBook?id="+id+"&name="+name+"&isbn="+isbn+"&date="+d
ate+"&price="+price+"">Add</a>");
        out.print("");
    %>
    </body>
</html>
```

```
<%--
 Document : showCards
 Created on: Sep 28, 2018, 2:10:49 PM
 Author
        : Vo
--%>
<@page import="java.util.List"%>
< @page import="Models.MBook"%>
< @page import="Models.Book"%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
   <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
   <title>JSP Page</title>
 </head>
 <body>
   <%
     MBook items = new MBook();
     List<Book> list = items.getAll();
   %>
   <h1>Giổ hàng</h1>
   <a href="ListBooks.jsp">Tiếp tục mua hàng</a>
   STT
       Mã sách
       Tên sách
       Mã ISBN
       Ngày Xuất Bản
       Số lượng
       Dơn qiá
       Thành tiền
       Cập nhật
     <%
     for(int i = 0; i < list.size(); i++){
     Book book = list.get(i);
   %>
     <\td><\td>
       <%= book.BookID %>
       <%= book.Name %>
       <%= book.ISBN %>
       <%= book.PublishedDate %>
       <%= book.Count %>
       <%= book.Price %>
       <%= book.Sum %>
       <a href="/WebApplication1/Controllers/CRemoveBook?id=<%= book.BookID
%>">Xóa</a>
     <%}%>
   </body>
</html>
```