product SOURCE CODE:

Bookstore.html

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Book Store</title>

</head>

<body>

<h2>Welcome to Book Store</h2>

<ul>

<li><a href="books">View Books</a></li>

<li><a href="addbook.html">Add Book</a></li>

</ul>

</body>

</html>

addbook.html

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Add Book</title>

</head>

<body>

<form action="books" method="post">

<table>

<tr>

<td>Book Name</td>

<td><input name="bookname" /></td>

</tr>

<tr>

<td>ISBN</td>

<td><input name="isbn" /></td>

</tr>

<tr>

<td>Price</td>

<td><input name="price" /></td>

</tr>

<tr>

<td></td>

<td><input type="submit" value="Add" /></td>

</tr>

</table>

</form>

</body>

</html>

Viewbook.jsp

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>View Books</title>

</head>

<body>

<h1>Book List</h1>

<table>

<tr>

<th>Id</th>

<th>Name</th>

<th>ISBN</th>

<th>Price</th>

</tr>

<c:forEach var="book" items="${books}">

<tr>

<td>${book.id}</td>

<td>${book.name}</td>

<td>${book.isbn}</td>

<td>${book.price}</td>

</tr>

</c:forEach>

</table>

<br/>

<a href="bookstore.html">Home</a>

</body>

</html>

BookServlet.java

package com.samples.servlets;

import java.io.IOException;

import java.util.List;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import com.samples.domain.Book;

import com.samples.service.BookstoreService;

@WebServlet("/books")

public class BookServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

BookstoreService bookstoreService;

public void init() throws ServletException {

super.init();

this.bookstoreService = new BookstoreService();

}

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

List<Book> books = this.bookstoreService.getBooks();

request.setAttribute("books", books);

RequestDispatcher rd = request.getRequestDispatcher("/viewbooks.jsp");

rd.forward(request, response);

}

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

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

String pricestr = request.getParameter("price");

if (bookname == null || isbn == null || pricestr == null) {

// write a response invalid input

// return

}

int priceint = Integer.parseInt(pricestr);

Book book = new Book(isbn, bookname, priceint);

this.bookstoreService.addBook(book);

List<Book> books = this.bookstoreService.getBooks();

request.setAttribute("books", books);

RequestDispatcher rd = request.getRequestDispatcher("/viewbooks.jsp");

rd.forward(request, response);

}

}

BookstoreService,java

package com.samples.service;

import java.util.List;

import org.hibernate.Session;

import org.hibernate.Transaction;

import com.samples.domain.Book;

import com.samples.utils.HibernateUtil;

public class BookstoreService {

public void addBook(Book book) {

Session session = HibernateUtil.getSessionFactory().openSession();

Transaction txn = session.getTransaction();

try {

txn.begin();

session.save(book);

txn.commit();

} catch (Exception ex) {

if (txn != null) {

txn.rollback();

}

ex.printStackTrace();

} finally {

if (session != null) {

session.close();

}

}

}

public List<Book> getBooks() {

List<Book> books = null;

Session session = HibernateUtil.getSessionFactory().openSession();

Transaction txn = session.getTransaction();

try {

txn.begin();

books = session.createQuery("from Book").list();

txn.commit();

} catch (Exception ex) {

if (txn != null) {

txn.rollback();

}

ex.printStackTrace();

} finally {

if (session != null) {

session.close();

}

}

return books;

}

Book.java

package com.samples.domain;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

@Entity

public class Book {

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private Long id;

private String isbn;

private String name;

private int price;

public Book() {}

public Book(String isbn, String name, int price) {

this.isbn = isbn;

this.name = name;

this.price = price;

}

public Long getId() {

return id;

}

public void setId(Long id) {

this.id = id;

}

public String getIsbn() {

return isbn;

}

public void setIsbn(String isbn) {

this.isbn = isbn;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public int getPrice() {

return price;

}

public void setPrice(int price) {

this.price = price;

}

@Override

public String toString() {

return "Book [id=" + id + ", isbn=" + isbn + ", name=" + name + ", price=" + price + "]";

}

}

}