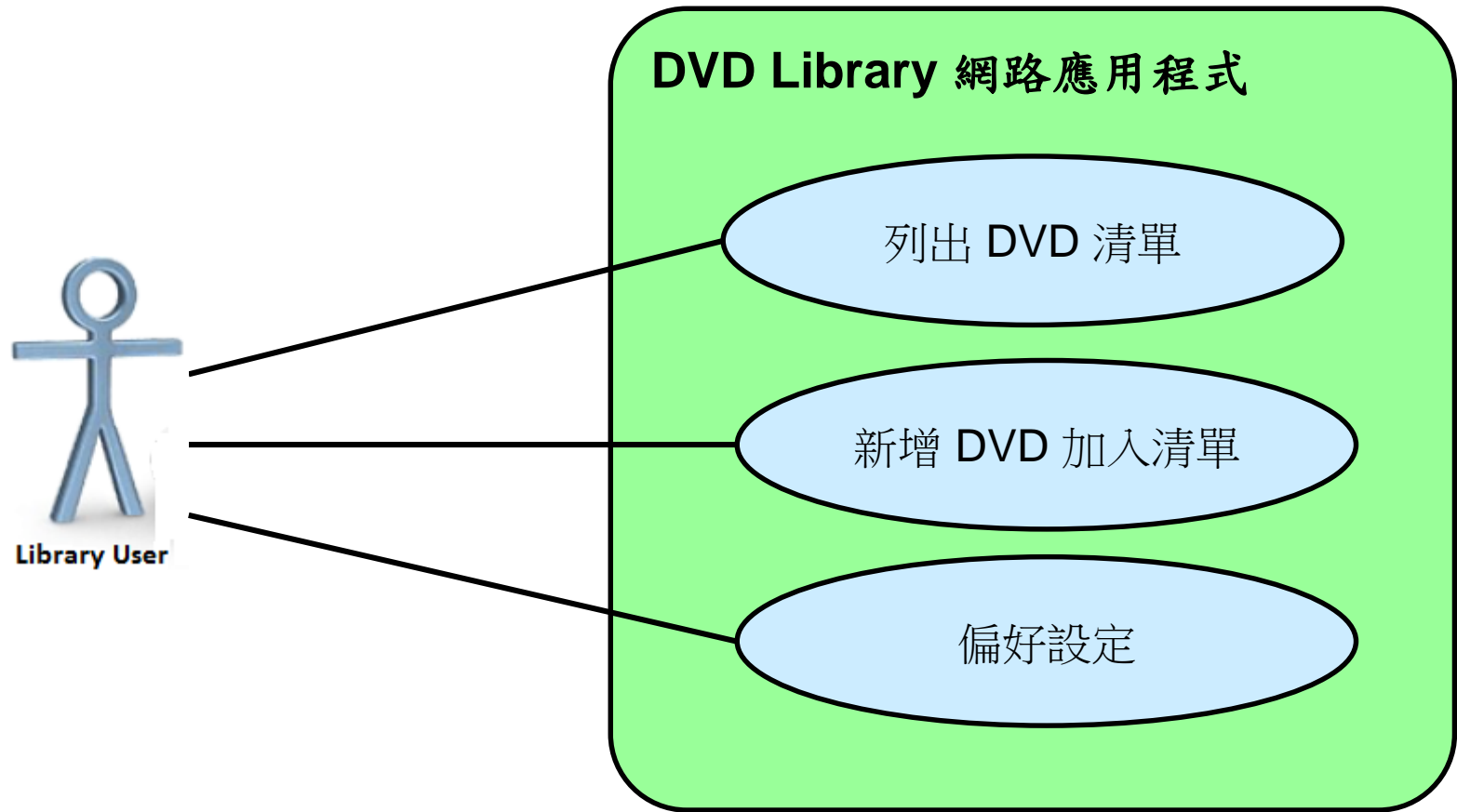

Java EE 7 Web 練習七 Solution

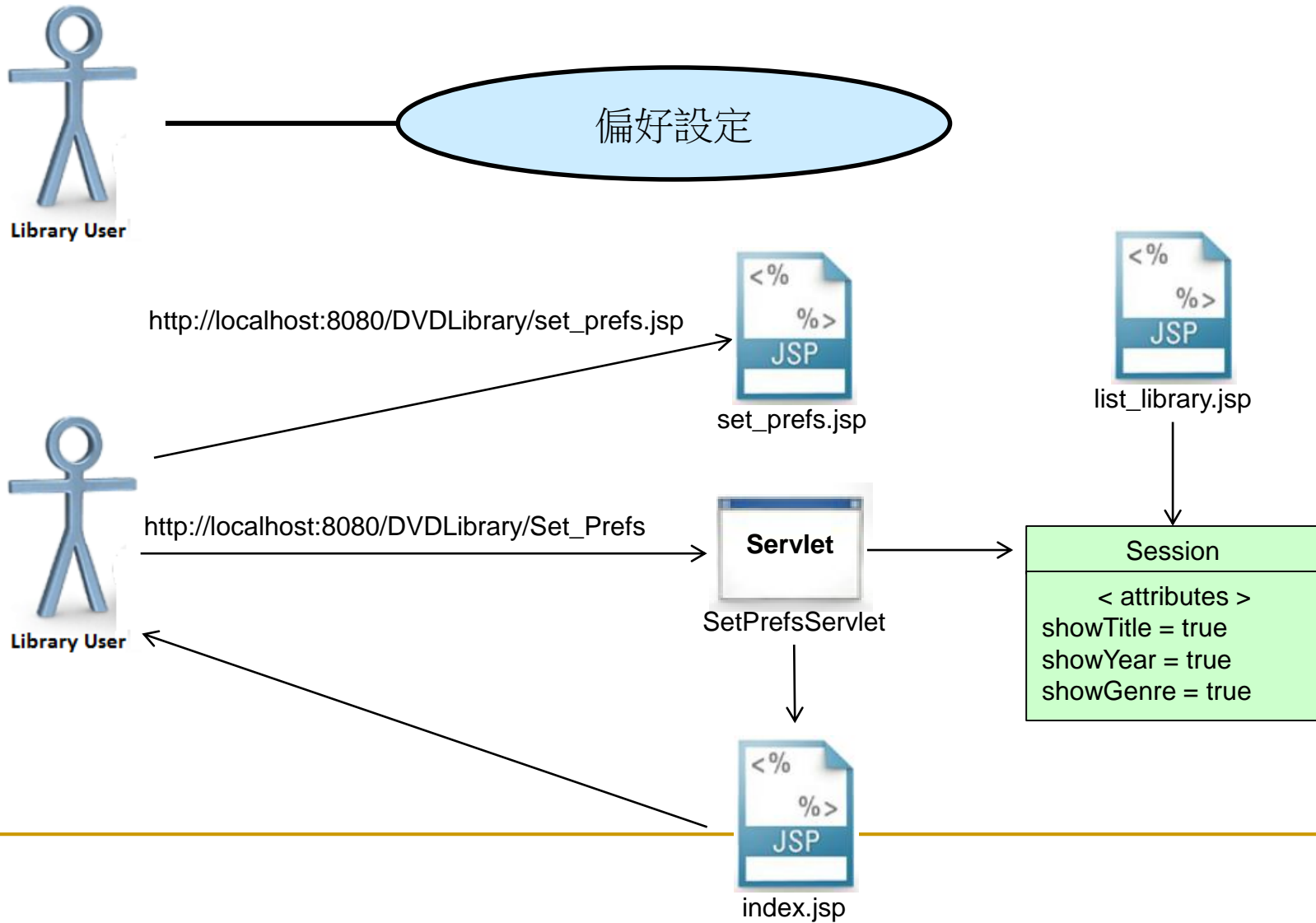
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DVDLibrary 應用程式分析設計



DVDLibrary 應用程式



Lab

- 修改原 index.html,另存為index.jsp
 - 新增一個連結,連結至set_prefs.jsp 頁面
 - 使用URL-Rewriting
 - 使用URL-Rewriting修改list_library.jsp連結
 - 畫面如右上圖
- 新增 set_prefs.jsp頁面
 - 建立一個Form表單如右下圖
 - 送出Post方法至Set_Prefs
 - 使用URL-Rewriting
 - CheckBox 輸入欄位 show, 選項值為 showTitle, showYear, showGenre
 - 由Session中取showTitle, showYear, showGenre屬性,如果屬性存在,預先勾選 (checked)該選項
 - Submit 按鈕 Set Preferences

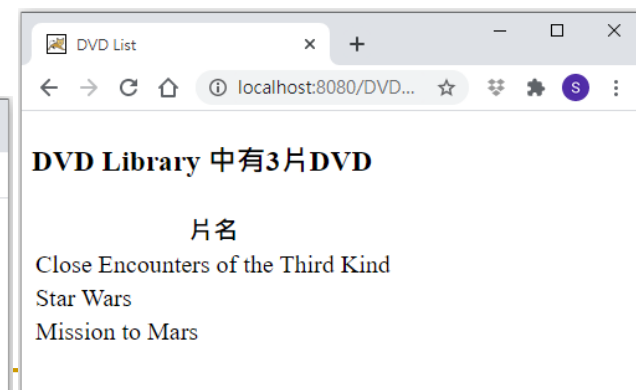


Lab

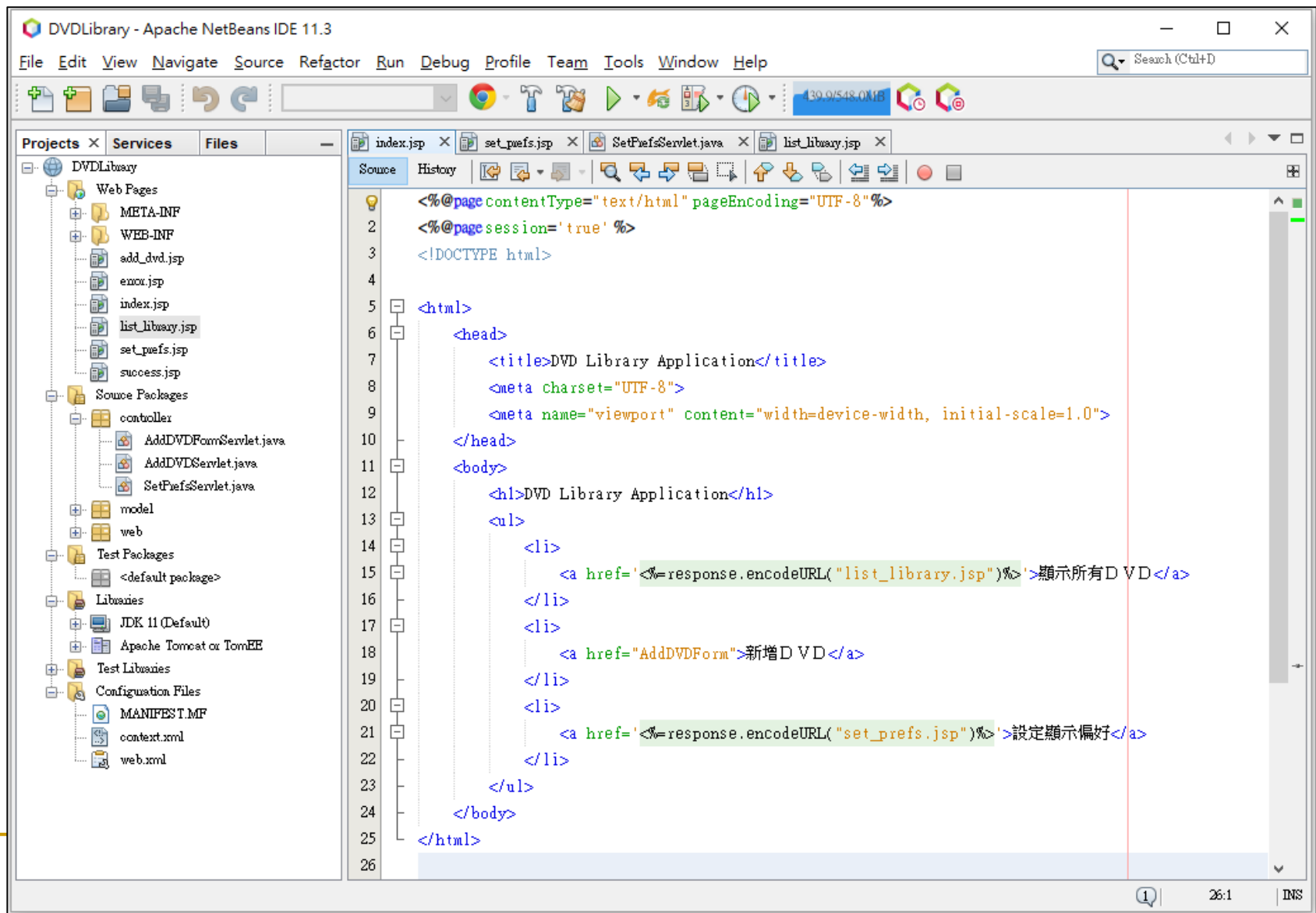
- 撰寫controller.SetPrefsServlet.java
 - Servlet URL 為 Set_Prefs
 - 取得Session物件
 - 取得請求參數show的值
 - 此參數值輸入型態為CheckBox
 - 使用getParameterValues取得一字串陣列,包含所有使用者有勾選的值
 - 如果取得的字串陣列為null,將其設為初始值{"showTitle", "showYear", "showGenre"}
 - 依客戶端傳送的請求參數陣列show,設定Session屬性
 - 移除Session中所有舊的屬性值
 - 請求參數陣列中有"showTitle"字串,在session中加入屬性showTitle
 - 請求參數陣列中有"showYear"字串,在session中加入屬性showYear
 - 請求參數陣列中有"showGenre"字串,在session中加入屬性showGenre
 - 頁面轉送至index.jsp, 使用URL-Rewriting

Lab

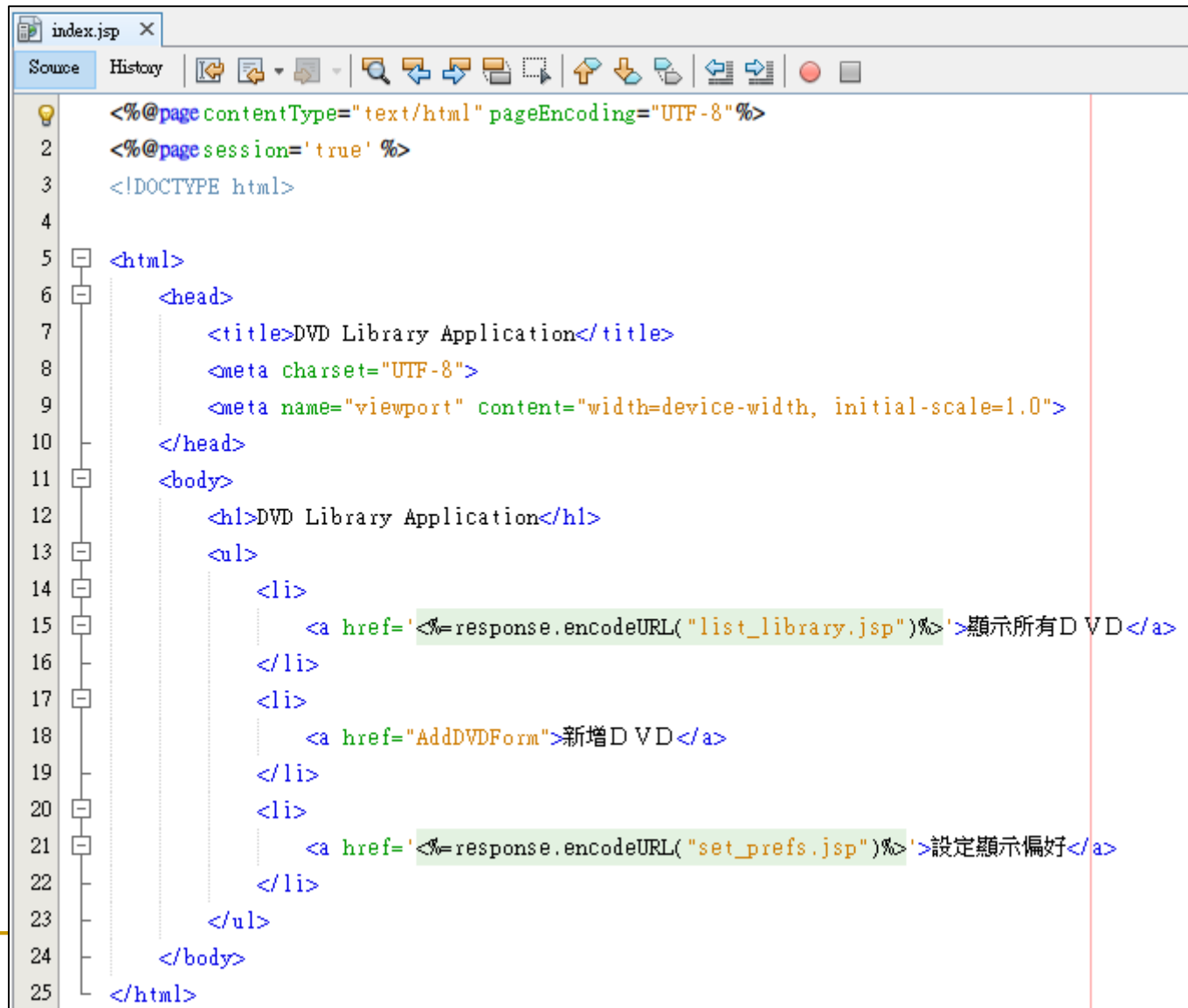
- 修改 `success.jsp`
 - 回首頁改為連結 `index.jsp`
- 修改 `list_library.jsp`
 - 頁面中設定使用 `session`
 - 依 `Session` 中屬性, 設定顯示欄位如下圖
 - 由 `Session` 中取 `showTitle`, `showYear`, `showGenre` 屬性
 - 屬性存在, 顯示該欄位
 - 屬性不存在, 該欄位不顯示



DVDLibrary專案

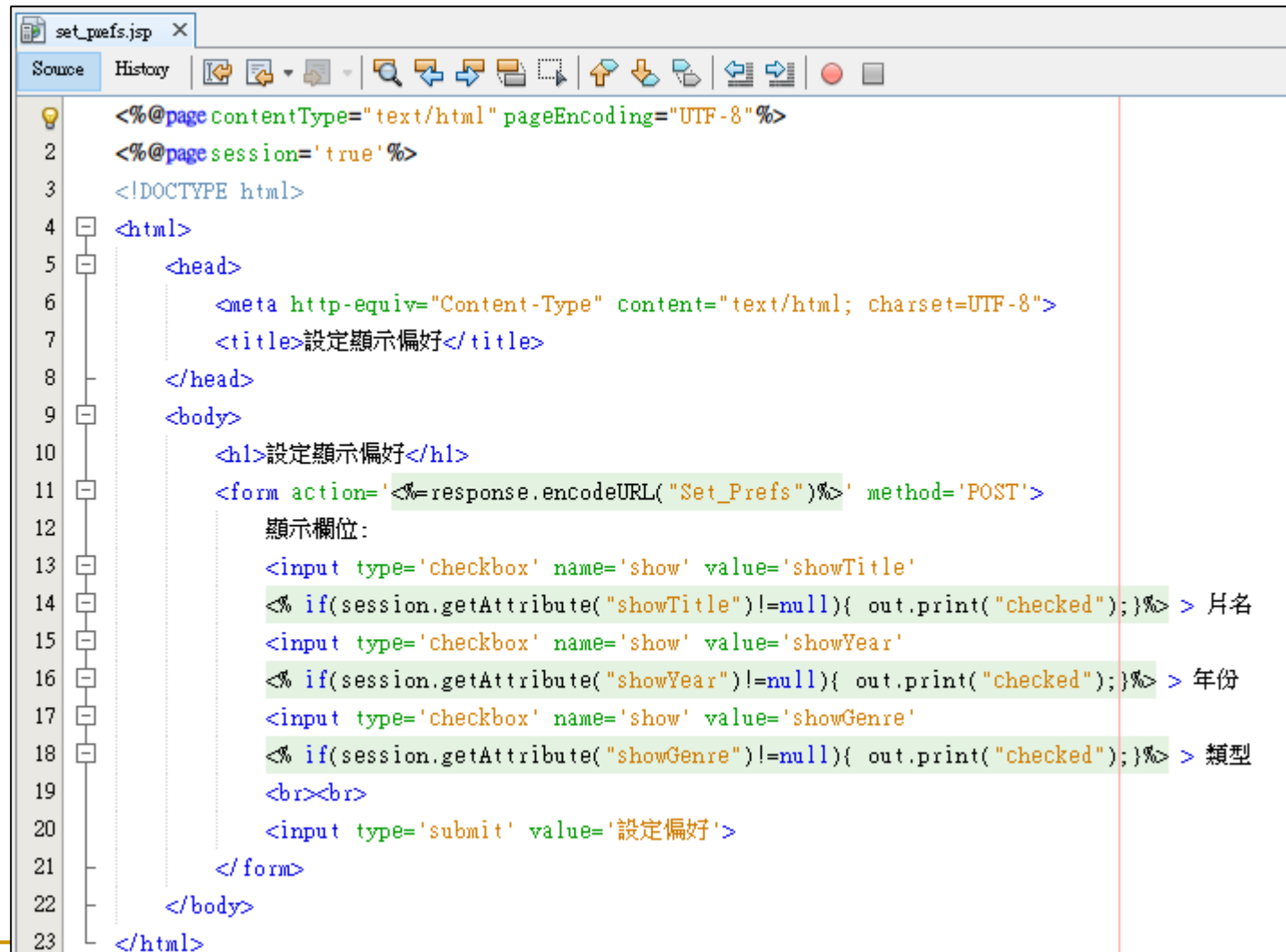


index.jsp



```
1 <%@page contentType="text/html" pageEncoding="UTF-8"%>
2 <%@page session='true' %>
3 <!DOCTYPE html>
4
5 <html>
6   <head>
7     <title>DVD Library Application</title>
8     <meta charset="UTF-8">
9     <meta name="viewport" content="width=device-width, initial-scale=1.0">
10  </head>
11  <body>
12    <h1>DVD Library Application</h1>
13    <ul>
14      <li>
15        <a href='<%=response.encodeURL("list_library.jsp")%>'>顯示所有DVD</a>
16      </li>
17      <li>
18        <a href="AddDVDForm">新增DVD</a>
19      </li>
20      <li>
21        <a href='<%=response.encodeURL("set_prefs.jsp")%>'>設定顯示偏好</a>
22      </li>
23    </ul>
24  </body>
25 </html>
```


set_prefs.jsp

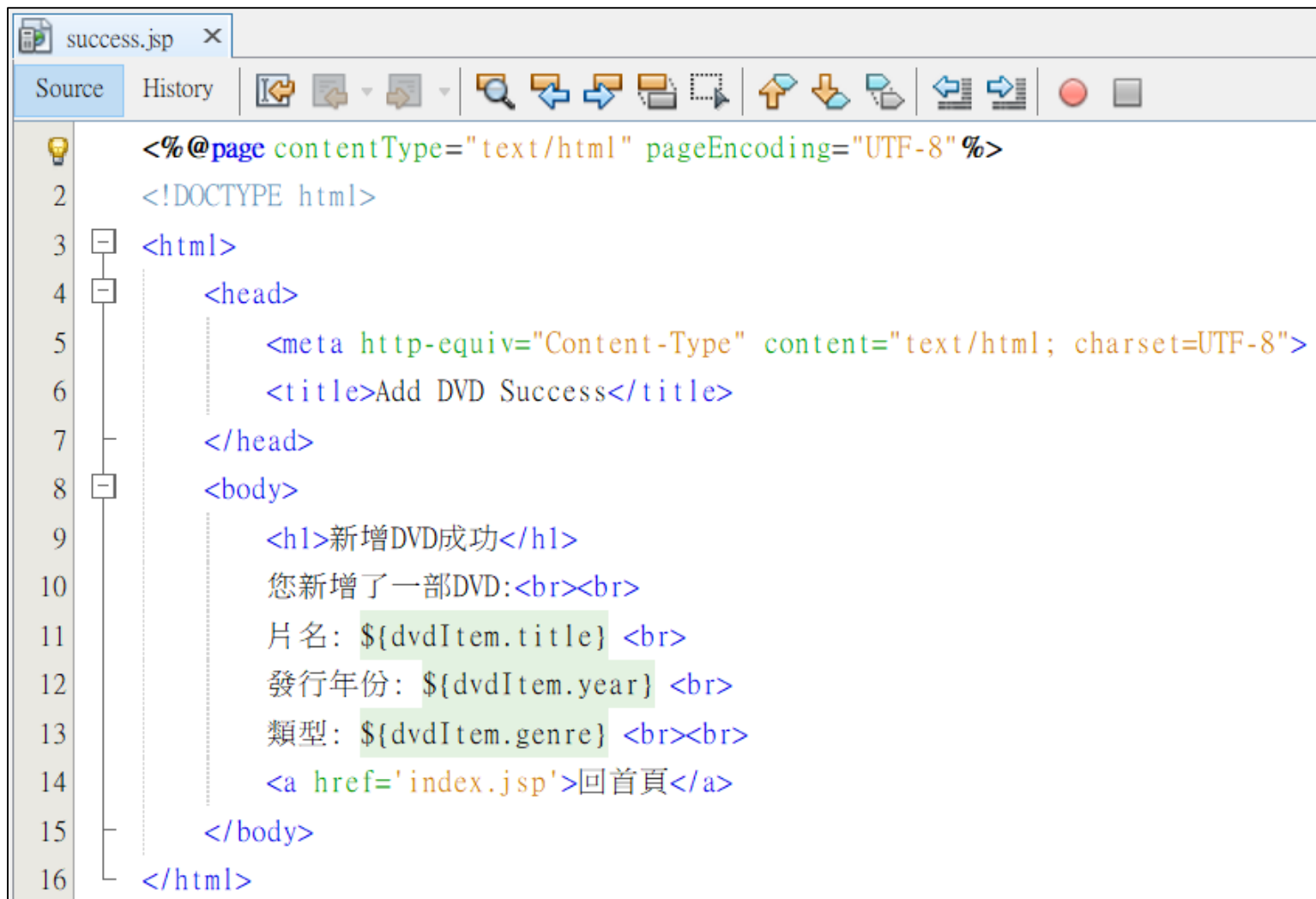


```
1 <%@page contentType="text/html" pageEncoding="UTF-8"%>
2 <%@page session='true'%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6 <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
7 <title>設定顯示偏好</title>
8 </head>
9 <body>
10 <h1>設定顯示偏好</h1>
11 <form action='<%=response.encodeURL("Set_Prefs")%>' method='POST'>
12     顯示欄位:
13     <input type='checkbox' name='show' value='showTitle'
14     <% if(session.getAttribute("showTitle")!=null){ out.print("checked");}%> > 片名
15     <input type='checkbox' name='show' value='showYear'
16     <% if(session.getAttribute("showYear")!=null){ out.print("checked");}%> > 年份
17     <input type='checkbox' name='show' value='showGenre'
18     <% if(session.getAttribute("showGenre")!=null){ out.print("checked");}%> > 類型
19     <br><br>
20     <input type='submit' value='設定偏好'>
21 </form>
22 </body>
23 </html>
```

controller.SetPrefsServlet.java

```
9  @WebServlet(name = "Set_Prefs", urlPatterns = {"/Set_Prefs"})
10  public class SetPrefsServlet extends HttpServlet {
11
12      protected void processRequest(HttpServletRequest request, HttpServletResponse response)
13      throws ServletException, IOException {
14          // 取得Session物件的參照
15          HttpSession session = request.getSession();
16          String[] default_show = {"showTitle", "showYear", "showGenre"};
17          // 取得request中參數show的值, 此參數值得輸入型態為CheckBox,
18          // 使用getParameterValues取得一字串陣列, 包含所有使用者有勾選的值
19          String[] show_values = request.getParameterValues("show");
20          // 移除Session中所有舊的屬性值
21          session.removeAttribute("showTitle");
22          session.removeAttribute("showYear");
23          session.removeAttribute("showGenre");
24          if(show_values==null)
25              show_values = default_show;
26          //依客戶端傳送的show參數值,設定Session屬性
27          //如果request 參數 show 中有 showTitle 這個值,則將字串 true 指派給session 屬性 showTitle;
28          //如果request 參數 show 中有 showYear 這個值,則將字串 true 指派給session 屬性 showYear;
29          //如果request 參數 show 中有 showGenre 這個值,則將字串 true 指派給session 屬性 showGenre;
30          for ( int i = 0; i < show_values.length; i++ ) {
31              session.setAttribute(show_values[i], "true");
32          }
33          RequestDispatcher rd = request.getRequestDispatcher(response.encodeURL("index.jsp"));
34          rd.forward(request, response);
35
36      }
37
38      // HttpServlet methods. Click on the + sign on the left to edit the code.
39  }
```

success.jsp



The image shows a screenshot of a web development IDE with a file named 'success.jsp' open. The interface includes a toolbar with various icons for file operations and a 'Source' tab. The code is written in JSP and HTML, displaying a success message for adding a DVD. The code is as follows:

```
1 <%@page contentType="text/html" pageEncoding="UTF-8"%>
2 <!DOCTYPE html>
3 <html>
4   <head>
5     <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
6     <title>Add DVD Success</title>
7   </head>
8   <body>
9     <h1>新增DVD成功</h1>
10    您新增了一部DVD:<br><br>
11    片名: ${dvdItem.title} <br>
12    發行年份: ${dvdItem.year} <br>
13    類型: ${dvdItem.genre} <br><br>
14    <a href='index.jsp'>回首頁</a>
15  </body>
16 </html>
```

list_library.jsp

```
list_library.jsp
Source History
<%@page contentType="text/html" pageEncoding="UTF-8"%>
2 <%@page import="java.util.*"%>
3 <%@page import="model.DVDItem"%>
4 <%@page session='true'%>
5 <!DOCTYPE html>
6 <html>
7 <head>
8 <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
9 <title>DVD List</title>
10 </head>
11 <%
12     List<DVDItem> dvdList = (List<DVDItem>)application.getAttribute("DVDList");
13     if(!session.getAttributeNames().hasMoreElements()){
14         session.setAttribute("showTitle", "true");
15         session.setAttribute("showYear", "true");
16         session.setAttribute("showGenre", "true");
17     }
18 %>
19 <body>
20 <h3>DVD Library 中有<%=dvdList.size()%>片DVD</h3>

21
22 <table>
23 <tr>
24 <% if(session.getAttribute("showTitle")!=null){ %>
25 <th>片名</th>
26 <% } %>
27 <% if(session.getAttribute("showYear")!=null){ %>
28 <th>年份</th>
29 <% } %>
30 <% if(session.getAttribute("showGenre")!=null){ %>
31 <th>類型</th>
32 <% } %>
33 </tr>
34 <% for(DVDItem dvd: dvdList){ %>
35 <tr>
36 <% if(session.getAttribute("showTitle")!=null){ %>
37 <td><%=dvd.getTitle()%></td>
38 <% } %>
39 <% if(session.getAttribute("showYear")!=null){ %>
40 <td><%=dvd.getYear()%></td>
41 <% } %>
42 <% if(session.getAttribute("showGenre")!=null){ %>
43 <td><%=dvd.getGenre()%></td>
44 <% } %>
45 </tr>
46 <% } %>
47 </table>
48 </body>
</html>
```