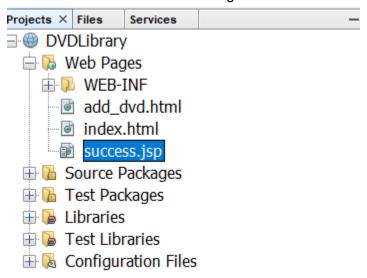
LAB 7: JSP - CSC584

1. Exercise 1: Converting the Add DVD Success View Component to a JSP Page

Task 1: Convert the Success Servlet

1. Create JSP file with the following characteristics:



```
Source History | 👺 🔯 - 🐺 - | 🥄 😓 👺 🖶 📮 | 🌮 😓 | 🕮 💇 | ● 🗎
         Document : success
         Created on: Nov 19, 2024, 5:12:11 PM
3
        Author : nasru
    <%@page contentType="text/html" pageEncoding="UTF-8"%>
     <!DOCTYPE html>
9 = <jsp:useBean id="dvdItem" scope="request" type="com.dvd.model.DVDItem" />
10
13
             <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
14
             <title>DVD Library Application: Add DVD Success</title>
        </head>
15
16
        <body>
            <h1>Add DVD Success (JSP)</h1>
17
18
           You have add the following DVD: <br/>
20 =
            Title: <jsp:getProperty name="dvdItem" property="title" /><br>
            Year Release: <jsp:getProperty name="dvdItem" property="year" /><br>
22
            Genre of film: <jsp:getProperty name="dvdItem" property="genre" /><br>
23
            <br><a href='index.html'>Home</a>
         </body>
24
   </html>
25
26
```

Task 2: Remove the Old Servlet Code (optional)

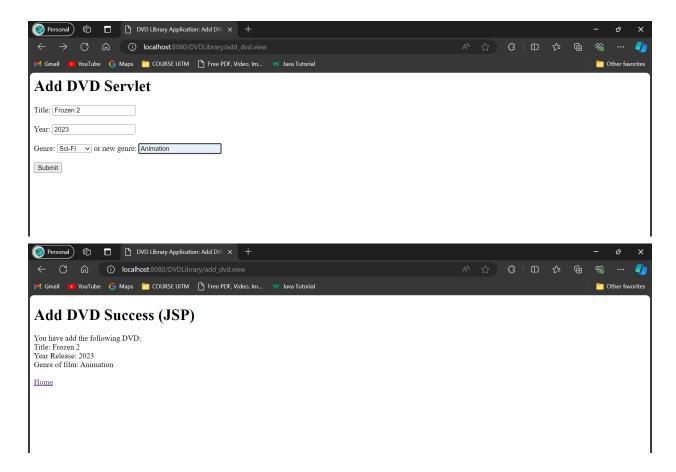
```
👺 🐉 + 🐺 + 💆 l
                   Servlets
                             Filters
 Source
          General
                                      Pages
                                             References
                                                       Security
                                                                 History
1
     <?xml version="1.0" encoding="UTF-8"?>
     2
   白
3
         <servlet>
             <servlet-name>ListLibraryServlet</servlet-name>
4
             <servlet-class>com.dvd.view.ListLibraryServlet</servlet-class>
5
6
         </servlet>
7
         <servlet>
8
             <servlet-name>AddDVDServlet</servlet-name>
             <servlet-class>com.dvd.controller.AddDVDServlet</servlet-class>
9
10
         </servlet>
         <servlet>
11
12
             <servlet-name>AddDVDFormServlet</servlet-name>
             <servlet-class>com.dvd.view.AddDVDFormServlet</servlet-class>
13
14
         </servlet>
         <servlet-mapping>
15
16
             <servlet-name>ListLibraryServlet</servlet-name>
             <url-pattern>/list_library.view</url-pattern>
17
18
         </servlet-mapping>
19
         <servlet-mapping>
20
             <servlet-name>AddDVDServlet</servlet-name>
21
             <url-pattern>/add_dvd.do</url-pattern>
22
         </servlet-mapping>
23
         <servlet-mapping>
             <servlet-name>AddDVDFormServlet</servlet-name>
24
25
             <url-pattern>/add_dvd.view</url-pattern>
26
         </servlet-mapping>
27
         <session-config>
28
             <session-timeout>
29
             </session-timeout>
30
         </session-config>
31
32
         <welcome-file-list>
33
             <welcome-file>index.html</welcome-file>
         </welcome-file-list>
34
35
     </web-app>
```

Task 3: Deploy the Web Application



Task 4: Test the Web Application

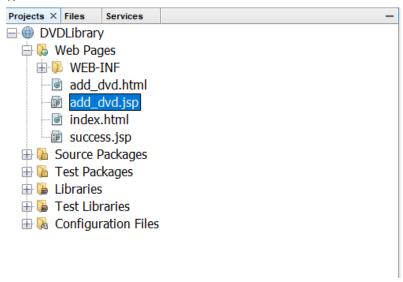
1. Refresh the DVDLibrary web application home page. Test the Add DVD form page.



Exercise 2: Converting the Add DVD Form Component to a JSP Page

Task 1: Convert the AddDVDFormServlet Servlet

1.



2. + 3

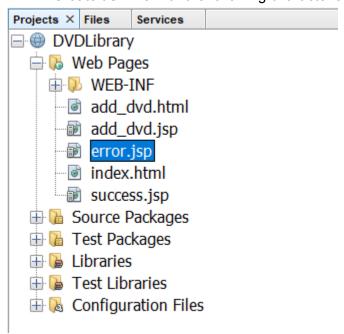
```
Source History | 👺 🔯 - 🗐 - | 🥄 😓 ኞ 🖶 📮 | 🔗 😓 | 💇 💇 | ● 🗎
 ₽ = <%-
 2
         Document : add_dvd
 3
         Created on : Nov 19, 2024, 6:59:22 PM
 4
         Author
                  : nasru
 6
     <%@page contentType="text/html" pageEncoding="UTF-8"%>
 8
<title>DVD Library Application: Add DVD Form</title>
12
13
         <body>
14
             <h1>Add DVD</h1>
15
             <form action='add_dvd.do' method='POST'>
                 Title: <input type='text' name='title'> <br/> <br/>
16
17
                     java.util.Calendar calendar = java.util.Calendar.getInstance();
18
19
                     int currYear = calendar.get(java.util.Calendar.YEAR);
20
21
                 Year: <input type='text' name='year' value="<%= currYear %>"> <br/> <br/> <br/>
22
                 Genre <select name='genre'>
23
                     <option value='Sci-Fi'>Sci-Fi</option>
                     <option value='Drama'>Drama</option>
                     <option value='Comedy'>Comedy</option>
26
                 </select>
27
                 or new genre: <input type='text' name='newGenre'> <br/> <br/>
28
                 <input type='submit'>
29
             </form>
         </body>
30
31
     </html>
```

4.

```
Source History 🔯 💀 - 🔊 - 🔍 🗫 🐶 🖶 📮 🔗 😓 😉 💇 🔘 🗉
      <!DOCTYPE html>
 2 = <!--
     To change this license header, choose License Headers in Project Properties.
 3
      To change this template file, choose Tools | Templates
     and open the template in the editor.
 7 🗏 <html>
 8 🖨
         <head>
             <title></title>
             <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
10
             <meta name="viewport" content="width=device-width, initial-scale=1.0">
11
12
13
          </head>
14 - 📮
          <body>
             <h1>DVD Library Application</h1>
15
16
17
             <l
18
                 <a href='list_library.view'>Display my DVD library</a>
19
                 <a href='add_dvd.jsp'>Add a DVD to my collection</a>
20
             21
22
23
24
         </body>
26
     </html>
```

Task 2: Create the JSP error page

1. Create JSP file with the following characteristics:

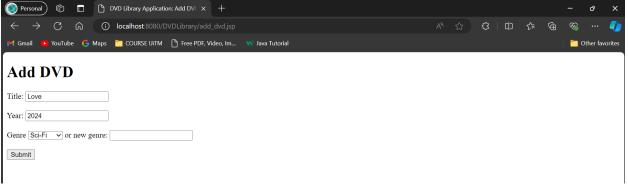


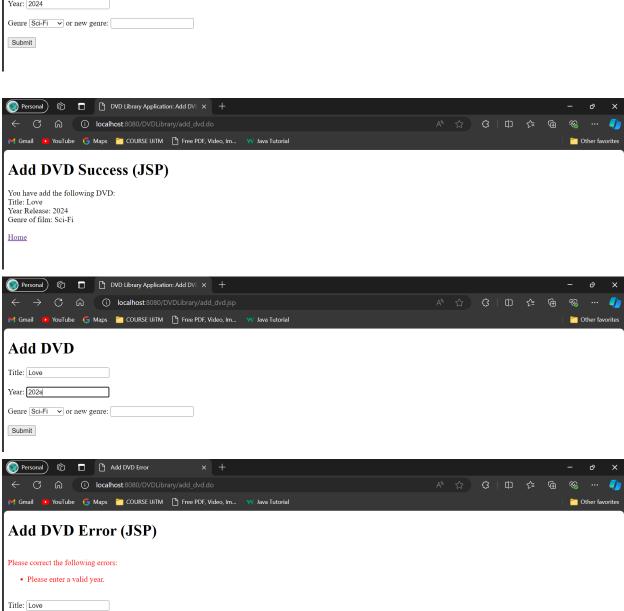
```
2. + 3
```

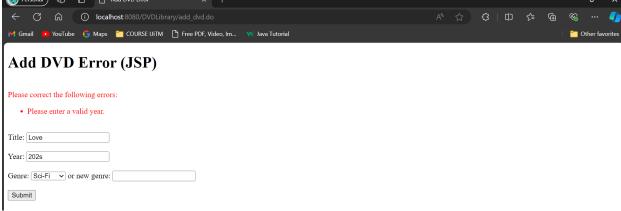
```
46
47
                  if(!errorMsgs.isEmpty()){
48
                      request.setAttribute("errorMsgs", errorMsgs);
9
                      RequestDispatcher view = request.getRequestDispatcher("/error.jsp");
50
                      view.forward(request, response);
51
                      return;
52
53
                  // Business logic
54
                  DVDItem item = new DVDItem(title, year, genre);
55
56
                  // Store the item on the request-scope
57
                  request.setAttribute("dvdItem", item);
58
59
                  // Dispatch to Success view
                  RequestDispatcher view = request.getRequestDispatcher("/success.jsp");
60
61
                  view.forward(request, response);
62
```

Task 3: Remove the Old Servlet Code (optional)

Task 4: Deploy and Test the Web Application



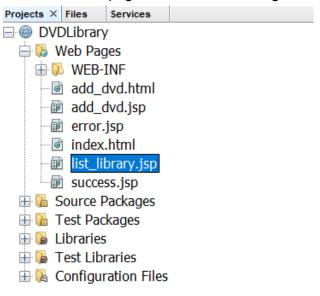




Exercise 3: Converting the List Library View Component to a JSP Page

Task 1: Convert the List Library Servlet

1. Create a JSP page file with the following characteristics:



2. Using the ListLibraryServlet servlet class as a guide, convert the servlet code into JSP code.

```
9
     <%@ page import="java.util.ArrayList" %>
     <%@ page import="java.util.Iterator" %>
11
     <%@ page import="com.dvd.model.DVDItem" %>
12 🗏 <%
13
        // Create a list of DVDs
14
        List dvds = new ArrayList();
15
        dvds.add(new DVDItem("Aquaman", "2019", "Sci-Fi"));
        dvds.add(new DVDItem("Robin Hood", "2018", "Action"));
16
        dvds.add(new DVDItem("The Grinch", "2018", "Comedy"));
17
   %>
18
19
     <!DOCTYPE html>
20 - <html>
22
        <title>List Library</title>
23
    </head>
  □ <body bgcolor='white'>
24
25 🖨
        You currently have <b><%= dvds.size() %></b> DVDs in your collection:<br/><br/>
26
        27
            28
               TITLE
               YEAR
29
30
               GENRE
            31
  中
32
            <%
33
               Iterator it = dvds.iterator();
34
               while (it.hasNext()) {
                   DVDItem item = (DVDItem) it.next();
35
            %>
36
37
  阜
            中
               <\td><\text{*= item.getTitle() %>
38
  \Box
39
               <\td><\text{$= item.getYear() }\text{$>
  \dot{\Box}
               <\td><\text{$= item.getGenre() }\text{$>
40
            41
42
            <%
43
               }
            용>
44
        45
46
        End of list ...
47
     </body>
     </html>
```

3. Modify the index.html home page to change the link to the new List Library JSP page.

```
Source History 👺 👺 - 🐺 - 🔍 😎 💤 📮 🔐 - 🚱 🔩 🚉 🔘 🗎
     <!DOCTYPE html>
2 = <!--
3
    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.
6
8
         <head>
            <title></title>
10
            <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
           <meta name="viewport" content="width=device-width, initial-scale=1.0">
11
12
13
        </head>
14
        <body>
15
            <h1>DVD Library Application</h1>
16
            <l
17
18
                <a href='list_library.jsp'>Display my DVD library</a>
19
20
                <a href='add dvd.jsp'>Add a DVD to my collection</a>
21
            22
23
24
         </body>
25
     </html>
```

Task 2: Remove the Old Servlet Code (optional)

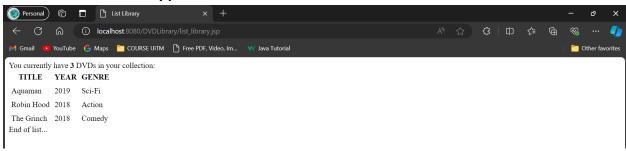
Task 3: Deploy the Web Application

```
Java DB Database Process × GlassFish Server (1) × DVDLibrary (run-deploy) ×

ant -f C:\\Users\\nasru\\OneDrive\\Documents\\NetBeansProjects\\DVDLibrary -Dnb.internal.action.name=redeploy -Ddirectory.deployment.supported=true -DforceRedeploy=true -Dnb.wait.for.caches=true -Dbrowser.int:

deps-module-jar:
deps-module-jar:
deps-module-jar:
ilbrary-inclusion-in-marchive:
ilbrary-inclusion-in-marchive:
ilbrary-inclusion-in-manifest:
compile-japs:
In-place deployment at C:\Users\\nasru\OneDrive\Documents\NetBeansProjects\DVDLibrary\build\\web
run-deploy:
BUILD SUCCESSFUL (total time: 0 seconds)
```

Task 4: Test the Web Application



Post Lab Exercise

