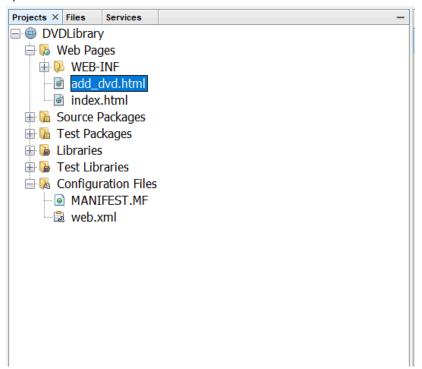
LAB 5 WEEK 4 - CSC584

1. Developing the AddDVD form

TASK 1: Develop the HTML Form

a)



b) + c)

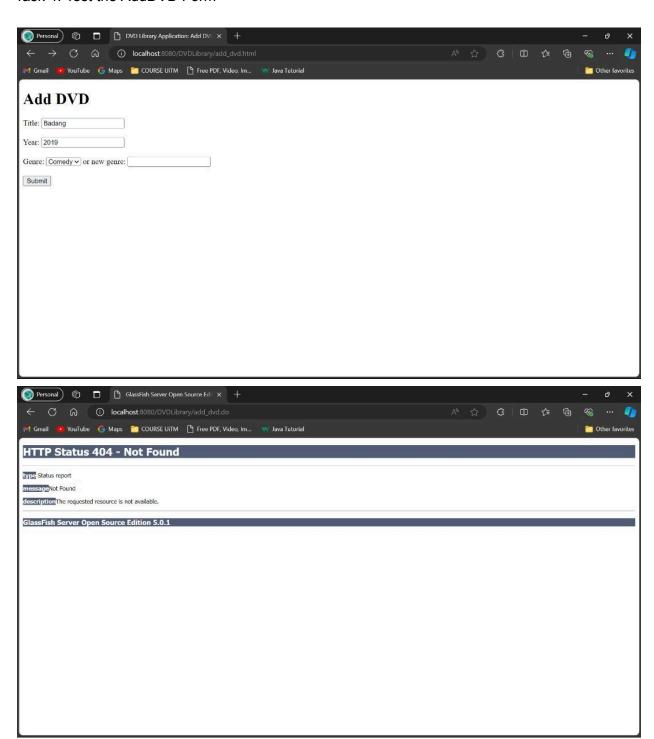
```
Source History | 🚱 🖫 - 🗐 - | 🥄 😓 🗗 📮 | 🔗 😓 | 🔄 🛂 | ● 🗎
   and open the template in the editor
6 -->
7 - <html>
8 - <he
         <head>
9
            <title>DVD Library Application: Add DVD Form</title>
10
             <meta charset="UTF-8">
            <meta name="viewport" content="width=device-width, initial-scale=1.0">
11
         </head>
12
13
         <body>
             <h1>Add DVD</h1>
14
             <form action='add_dvd.do' method='POST'>
15
                 Title: <input type='text' name='title'> <br><br/>>
16
17
                 Year: <input type='text' name='year'> <br><br/>>
                 Genre: <select name='genre'>
18
                    <option value='Sci-Fi'>Sci-Fi</option>
19
                     <option value='Drama'>Drama</option>
20
21
                     <option value='Comedy'>Comedy</option>
22
                 </select>
23
                 or new genre: <input type='text' name='newGenre'><br/><br/>
24
                 <input type='submit'>
25
              </form>
     </html>
```

TASK 2: Modify the Home Page

```
Source History | № | 🖟 - 🖫 - | 🔍 🐶 🖶 📮 | 🔐 🚱 | 😫 💇 | 🍥 🗉
1
     <!DOCTYPE html>
 2 = <!--
     To change this license header, choose License Headers in Project Properties.
 3
     To change this template file, choose Tools | Templates
 4
 5
     and open the template in the editor.
 6
     -->
 7 - - <html>
   \Box
 8
         <head>
 Q.
              <title></title>
10
              <meta charset="UTF-8">
11
              <meta name="viewport" content="width=device-width, initial-scale=1.0">
12
         </head>
13
          <body>
14
              <h1>DVD Library Application</h1>
15
   阜
                  \langle ul \rangle
16
                      <a href='list library.view'>Display my DVD library</a>
17
                      <a href='add dvd.html'>Add a DVD to my collection</a>
18
                  19
          </body>
20
      </html>
0
22
```

Task 3: Deploy the web application

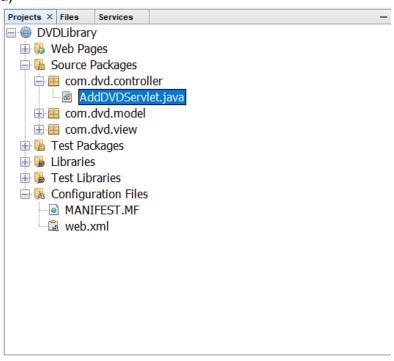
Task 4: Test the AddDVD Form



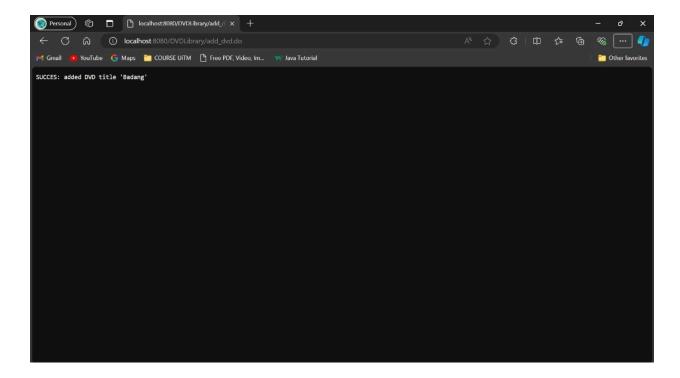
2. Developing a controller servlet

Task 1: Develop the controller Servlet

a)



Task 2: Deploy the Web Application & TASK 3: Test the AddDVDServlet

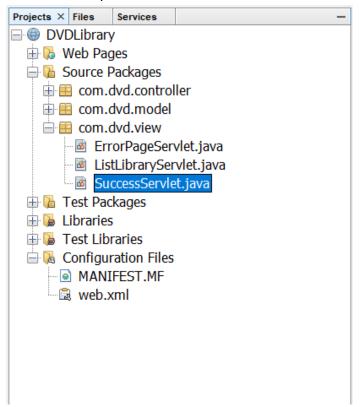


3. Developing the success view servlet

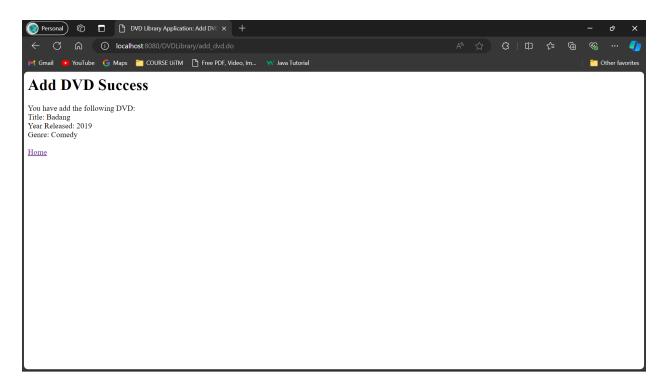
Task 1: Modify the Add DVD Controller Servlet

```
Source History | 👺 🖫 - 🗐 - | 🔍 🔁 🗗 📮 | 🔗 😓 | 💇 💇 | ● 🗎 | 🕮 🚅
109
110
111
112
113
                   //Business logic
114
                   DVDItem item = new DVDItem(title, year, genre);
115
116
117
                   //Generate simple response
118
                   //PrintWriter out = response.getWriter();
119
                   //out.println("SUCCESS: added DVD titled '" + item.getTitle() + "'");
120
                   //out.close();
121
122
123
124
                  //Store the item on the request-scope
                  request.setAttribute("dvdItem", item);
125
126
127
                  //Dispatch to success view
                  RequestDispatcher view = request.getRequestDispatcher("/success.view");
128
                  view.forward(request, response);
129
130
131
132
                   //Handle any unexpected exceptions
```

Task 2: Develop the success View Servlet



Task 3: Deploy the Web Application



4. Developing the Error View Servlet

Task 1: Modify the Add DVD Controller Servlet

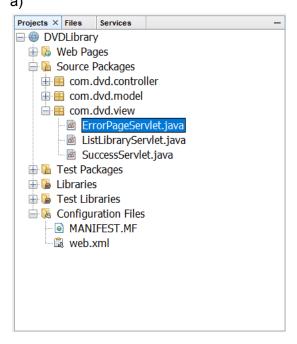
a) + b) + c) + d

```
protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
     //processRequest(reque
    List errorMsgs = new LinkedList();
         //Retrieve form parameters
        String title = request.getParameter("title");
        String year = request.getParameter("year");
        String genre = request.getParameter("newGenre");
         // if not, use the drop-down list valu
        if( (genre == null) || (genre.trim().length()) == 0 ) {
            genre = request.getParameter("genre");
        //Form verification
        if( title == null || title.trim().length() == 0){
            errorMsgs.add("Please enter the DVD title. ");
        if( year == null || year.trim().length() == 0){
             errorMsgs.add("Please enter the year of released for the DVD. ");
         } else if( !year.trim().matches("\\d\\d\\d\\d")){
            errorMsgs.add("Please enter a valid year.");
        if( ! errorMsgs.isEmpty() ) {
            request.setAttribute("errorMsgs", errorMsgs);
RequestDispatcher view = request.getRequestDispatcher ("/error.view");
            view.forward(request, response);
```

```
e)
```

```
//Handle any unexpected exceptions
} catch (RuntimeException e) {
    errorMsgs.add("An unexpected error: "+ e.getMessage());
    request.setAttribute("errorMsgs", errorMsgs);
    RequestDispatcher view = request.getRequestDispatcher("/error.view");
    view.forward(request, response);
}
- }
```

Task 2: Create the Error View Servlet a)



Task 3: Configure the Error View Servlet

```
占
      <servlet>
          <servlet-name>ListLibraryServlet</servlet-name>
          <servlet-class>com.dvd.view.ListLibraryServlet</servlet-class>
      </servlet>
白
      <servlet>
          <servlet-name>ErrorPageServlet</servlet-name>
          <servlet-class>com.dvd.view.ErrorPageServlet</servlet-class>
      </servlet>
      <servlet-mapping>
          <servlet-name>ListLibraryServlet</servlet-name>
          <url-pattern>/list_library.view</url-pattern>
      </servlet-mapping>
<servlet-mapping>
          <servlet-name>ErrorPageServlet</servlet-name>
          <url-pattern>/error.view</url-pattern>
      </servlet-mapping>
      <session-config>
```

Task 4: Deploy the Web Application

