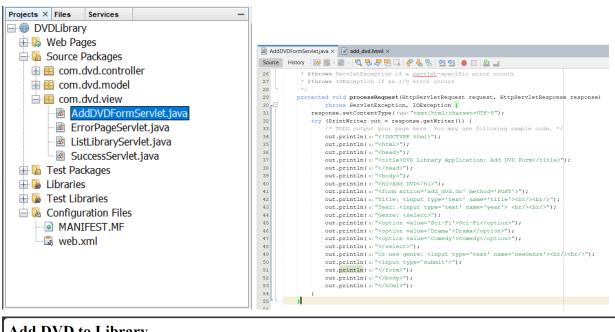
LAB ASSIGNMENT 1: SERVLET -3 - CSC584

1. Developing the Add Form View Servlet

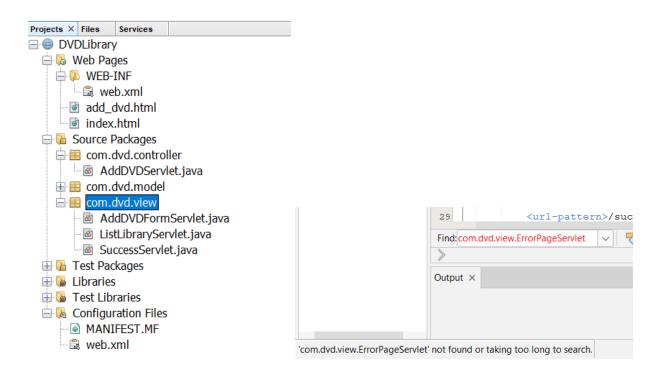
Create a java servlet using following characteristic:



Add DVD to Library		
Title: Year: Genre: Sci-Fi Or new genre: Add DVD		

2. Modify the AddDVDServlet Servlet & 3. Remove the ErrorPageServlet Servlet

```
AddDVDFormServlet.java ×
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  0
            protected void doPost(HttpServletRequest request, HttpServletResponse response)
 84
                   throws ServletException, IOException {
 85
                processRequest (request, response);
 86
                List errorMsg = (List) request.getAttribute(name: "errorMsg");
 87
 88
                response.setContentType( type: "text/html; charset=UTF-8");
 89
                try (PrintWriter out = response.getWriter()) {
 90
 91
                    //Generate the HTML response
                    out.println(x: "<!DOCTYPE html>");
 92
 93
                    out.println(x: "<html>");
                    out.println(x: "<head>");
 94
 95
                    out.println(x:"<title>DVD Library Application: Error Page</title>");
                    out.println(x: "</head>");
 96
                    out.println(x: "<body bgcolor='white'>");
 97
                    out.println(x:"<h2>Error Report</h2>");
 98
                    out.println(x:"<font color='red'>Please correct the following errors:");
 99
100
                    out.println(x: "");
                    Iterator items = errorMsg.iterator();
101
                    while(items.hasNext()){
102
                        String message = (String) items.next();
103
                        out.println("" + message + "");
104
105
                    out.println(x: "");
106
107
                    out.println(x: "</body>");
                    out.println(x: "</html>");
108
109
                    out.close();
110
111
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                  }else if(!year.trim().matches(regex:"\\d\\d\\d\\d")){
 97
                     errorMsq.add(e: "Please enter valid year");
 98
 99
                  if (!errorMsg.isEmpty()) {
                      request.setAttribute(name: "errorMsg", o:errorMsg);
100
                      RequestDispatcher view = request.getRequestDispatcher(path:"/add_dvd.view");
101
102
                      view.forward(request, response);
103
                      return;
104
105
                  //Business logic
106
107
                  DVDItem item = new DVDItem(title, year, genre);
108
109
                  //Store the item on the request-scope
                  request.setAttribute(name: "dvditem", o:item);
110
111
112
                  //Dsipatch to Succes View
113
                  RequestDispatcher view = request.getRequestDispatcher(path: "/success.view");
114
                  view.forward(request, response);
115
116
                  //Handle any unexpected exceptions
117
              }catch(RuntimeException e) {
118
                 errorMsg.add("An unexpected error: " + e.getMessage());
119
                 request.setAttribute(name: "errorMsg", o:errorMsg);
                 RequestDispatcher view = request.getRequestDispatcher(path: "/add_dvd.view");
121
                 view.forward(request, response);
122
```



4. Deploy and test the web application





Task 3: Repopulating Form Data (this task is to redisplay entered data by if errors occur in data entry)

Repopulate

```
    ■ AddDVDFormServlet.java ×

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           protected void processRequest(HttpServletRequest request, HttpServletResponse response)
                 throws ServletException, IOException {
 33
              response.setContentType(type: "text/html;charset=UTF-8");
              try (PrintWriter out = response.getWriter()) {
 34
                     TODO output your page here. You may use following sample code. */
 35
                  out.println(x: "<!DOCTYPE html>");
                  out.println(x: "<html>");
                  out.println(x: "<head>");
                  out.println(x:"<title>DVD Library Application: Add DVD Form</title>");
                  out.println(x: "</head>");
 41
                  out.println(x: "<body>");
                  out println(x: "<h1>Add DVD</h1>");
 42
                  out.println(x: "<form action='add dvd.do' method='POST'>");
 43
                  String title = request.getParameter(name: "title");
 44
 45
                    Display the title field
                  out.print(s: " Title: <input type='text' name='title' ");
                  if(title == null) {
                      title = "";
 48
                  out.println("value = '" + title + "' /> <br/>");
 50
                  String year = request.getParameter( name: "year");
                   // Display the year field
                  out.print(s:" Year: <input type='text' name='year' ");</pre>
 53
                  if(year == null) {
                      year = "";
 55
                  out.println("value = '" + year + "' /> <br/>");
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                     String genre = request.getParameter( name: "genre");
                     String genre_list = "Sci-Fi,Drama,Comedy";
  59
  Q
                     String [] genres = null;
  61
                     genres = genre_list.split(regex:",");
  62
                     //Repopulate the Genre drop-down menu
                     out.println(x: " Genre: <select name='genre'>");
  63
                     for ( int i = 0; i < genres.length; i++ ) {</pre>
  Q.
                         out.print("<option value="" + genres[i] + """);
  65
  66
                         if( genre.equals(genres[i])) {
                              out.print(s: " selected");
  68
                         out.println("> " + genres[i] + "</option>");
  69
  70
  71
                     out.println(x: "</select>");
                     String newGenre = request.getParameter(name: "newGenre");
  72
                     out.println(x: " or new genre: <input type='text' name='newGenre' ");
  73
  74
                     if(newGenre == null) {
                         newGenre = "";
  75
  76
                     out.println("value = '" + newGenre + "'/> <br/>");
  77
  78
                     out.println(x: "<input type='submit'>");
                     out.println(x: "</form>");
  79
                     out.println(x: "</body>");
  80
  81
                     out.println(x: "</html>");
  82
```

Deploy and test the web application



