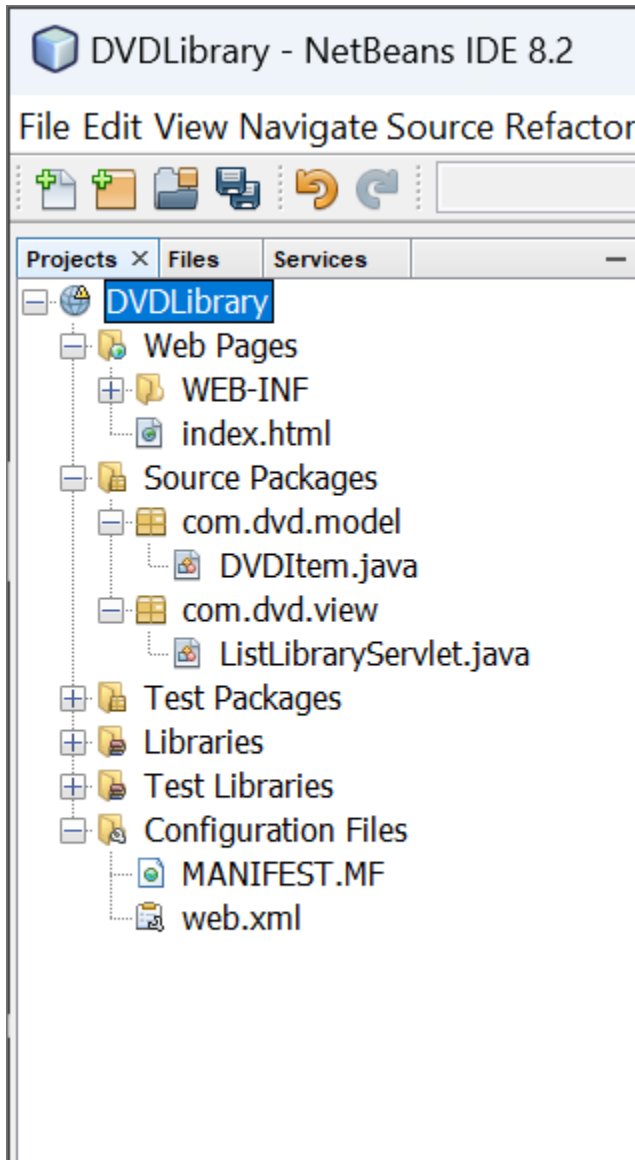


LAB 4 WEEK 3 - CSC584

TASK 1: Create the DVDItem Model file:

a)



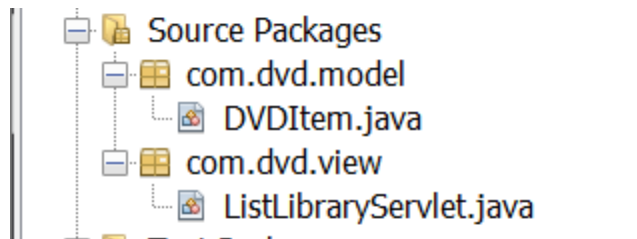
b) java class DVDItem:

DVDItem.java × index.html × MANIFEST.MF × web.xml × build-impl.xml × ListLibraryServlet.java ×

Source History

```
5  L  */
6  package com.dvd.model;
7  import java.io.Serializable;
8
9  /**
10   *
11   * @author nasru
12   */
13  public class DVDItem implements Serializable {
14      private static final long serialVersionUID = 1L; // Unique identifier for serial
15
16      // 1) d)
17      String title;
18      String year;
19      String genre;
20
21      // Constructors
22      public DVDItem() {
23      }
24
25      // 1)e)
26      public DVDItem(String title, String year, String genre) {
27          this.title = title;
28          this.year = year;
29          this.genre = genre;
30      }
31
32      // 1) f)
33      // Getters and setters
34      public String getTitle() {return this.title;}
35      public String getYear() {return this.year;}
36      public String getGenre() {return this.genre;}
37
38      public void setTitle() {this.title = title;}
39      public void setYear() {this.year = year;}
40      public void setGenre() {this.genre = genre;}
41  }
42
```

TASK 2: Write the ListLibraryServlet View Servlet:



b)

```
5  /*
6  package com.dvd.view;
7
8  // 2) b)
9  import java.util.List;
10 import java.util.Iterator;
11 import java.util.ArrayList;
12 import com.dvd.model.DVDItem;
13
14 import java.io.IOException;
15 import java.io.PrintWriter;
16 import javax.servlet.ServletException;
17 import javax.servlet.http.HttpServlet;
18 import javax.servlet.http.HttpServletRequest;
19 import javax.servlet.http.HttpServletResponse;
20
```

c)

```
25 public class ListLibraryServlet extends HttpServlet {
26     protected void processRequest(HttpServletRequest request, HttpServletResponse response)
27         throws ServletException, IOException {
28         response.setContentType("text/html;charset=UTF-8");
29         List dvds = new ArrayList();
30         dvds.add(new DVDItem("Aquaman", "2019", "Sci-Fi"));
31         dvds.add(new DVDItem("Robin Hood", "2018", "Action"));
32         dvds.add(new DVDItem("The Grinch", "2018", "Comedy"));
33         response.setContentType("text/html");
34         PrintWriter out = response.getWriter();
35
```

DVDItem.java × index.html × MANIFEST.MF × web.xml × build-impl.xml × ListLibraryServlet.java

Source History

33
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```
response.setContentType("text/html");
PrintWriter out = response.getWriter();

out.println("<html>");
out.println("<head>");
out.println("<title>ListLibraryServlet</title>");
out.println("<body bgcolor='white'>");
out.println("<You currently have <b>" + dvds.size() +
    "</b> DVDs in your collection:<br>");
out.println("<table border='0' cellspacing='0' cellpadding='5'>");
out.println("<tr>");
out.println("    <th>TITLE</th>");
out.println("    <th>YEAR</th>");
out.println("    <th>GENRE</th>");
out.println("</tr>");

Iterator it = dvds.iterator();
while(it.hasNext()){
    DVDItem item = (DVDItem) it.next();
    out.println("<tr>");
    out.println("    <td>" + item.getTitle() + "</td>");
    out.println("    <td>" + item.getYear() + "</td>");
    out.println("    <td>" + item.getGenre() + "</td>");
    out.println("</tr>");
}
out.println("</table>");
out.println("End of the list...");
out.println("</body>");
out.println("</html>");
out.close();

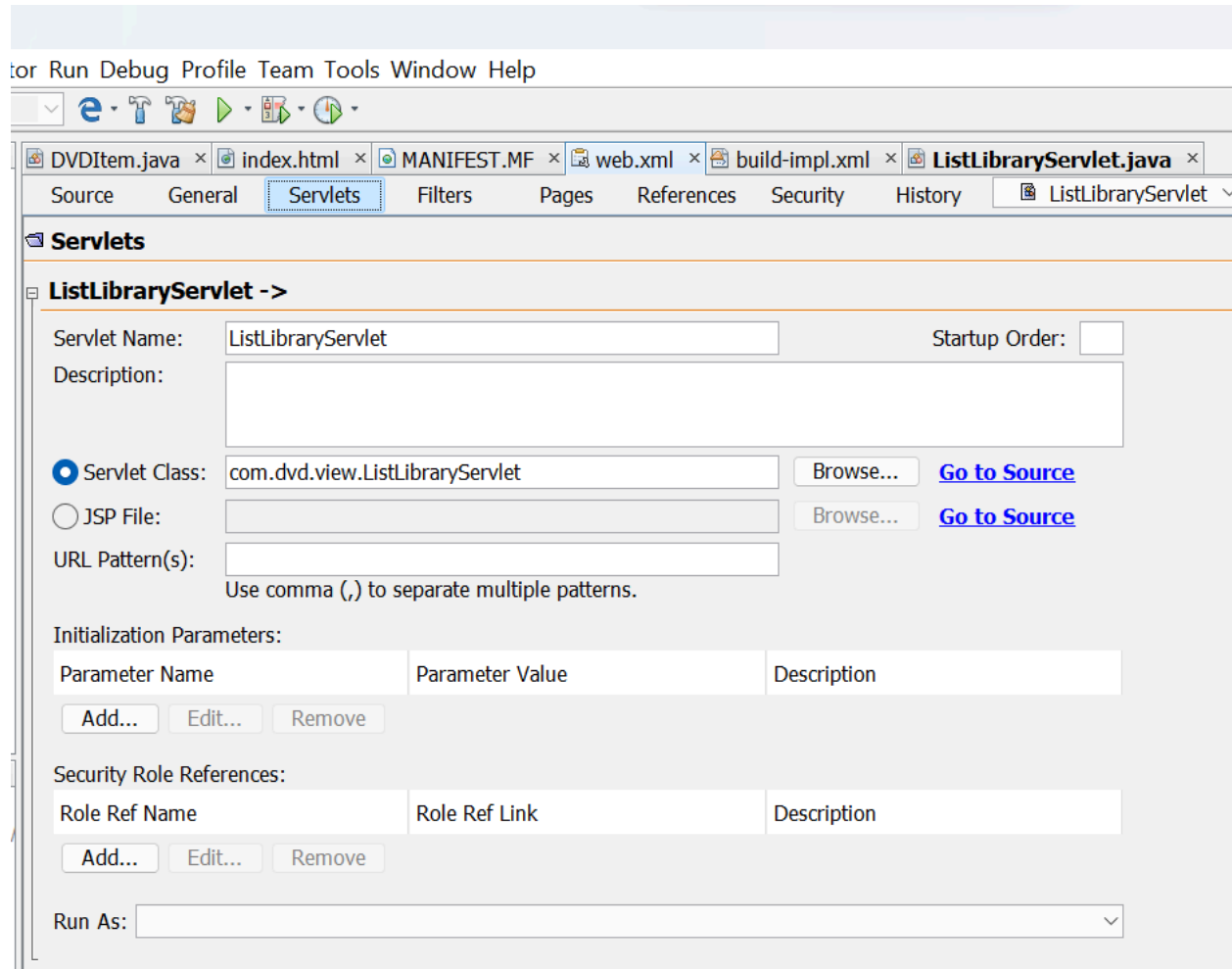
}
```

HttpServlet methods. Click on the + sign on the left to edit the code.

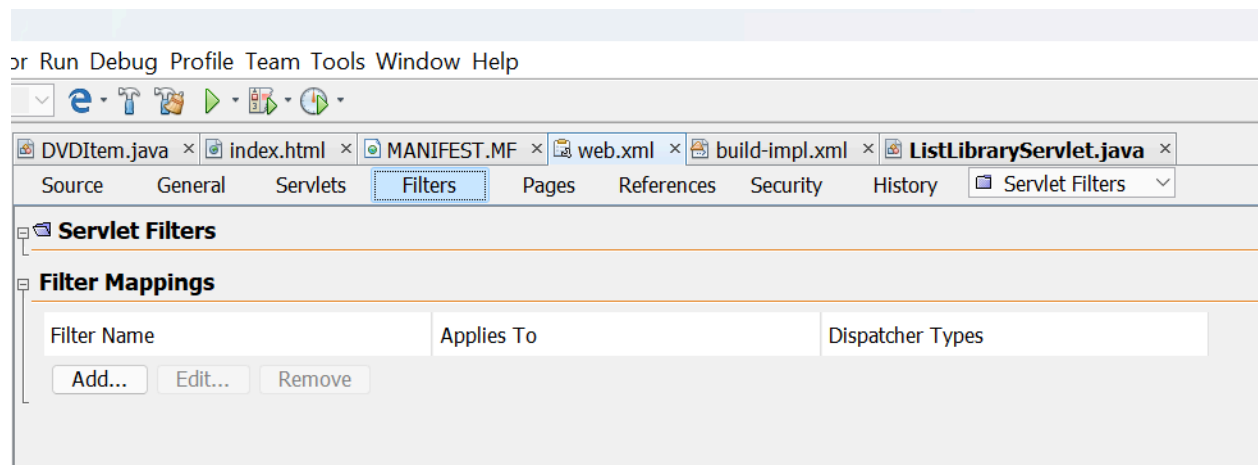
2. Configuring the Web Application

TASK 1: Verify the Servlet configuration:

a)

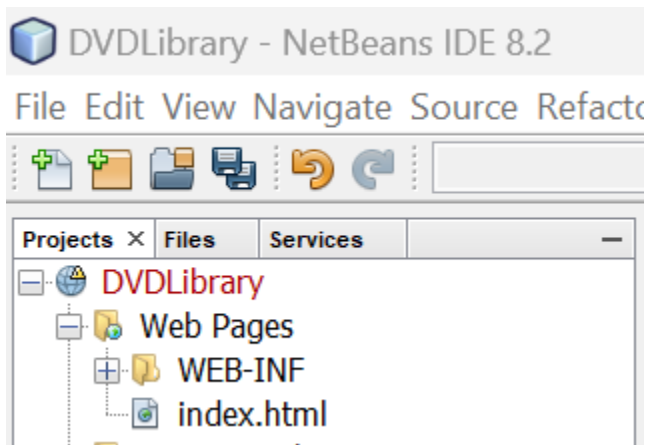


b)



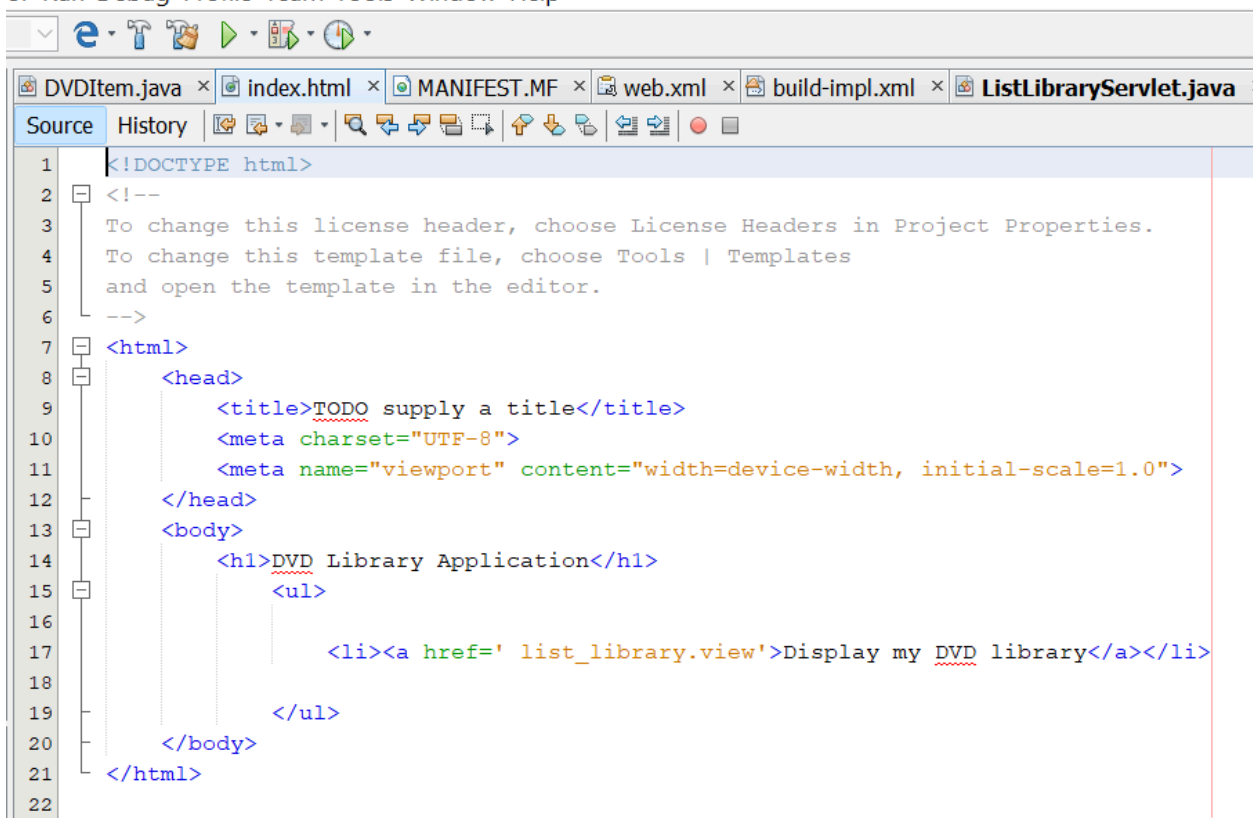
TASK 2: Create the Homepage:

a)

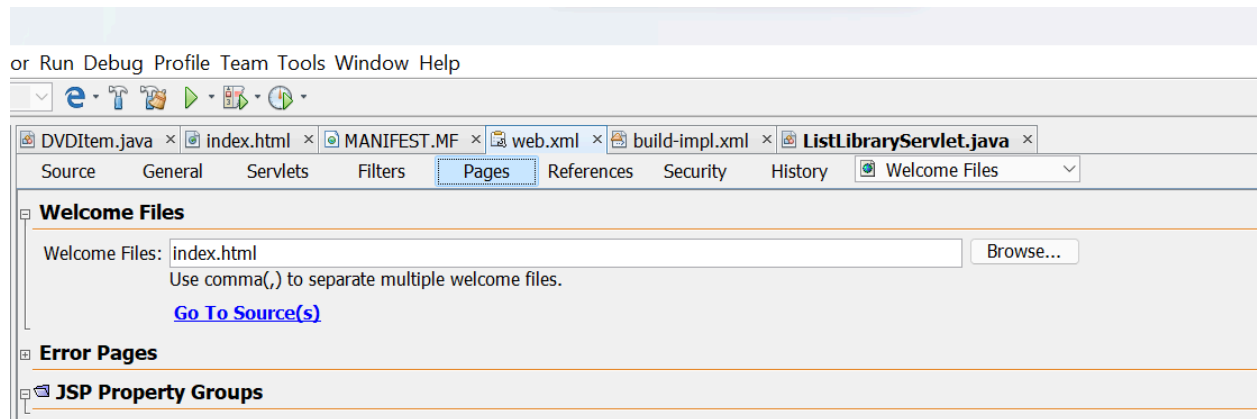


b) and c)

or Run Debug Profile Team Tools Window Help



d)



TASK 3: Deploy the web Application

