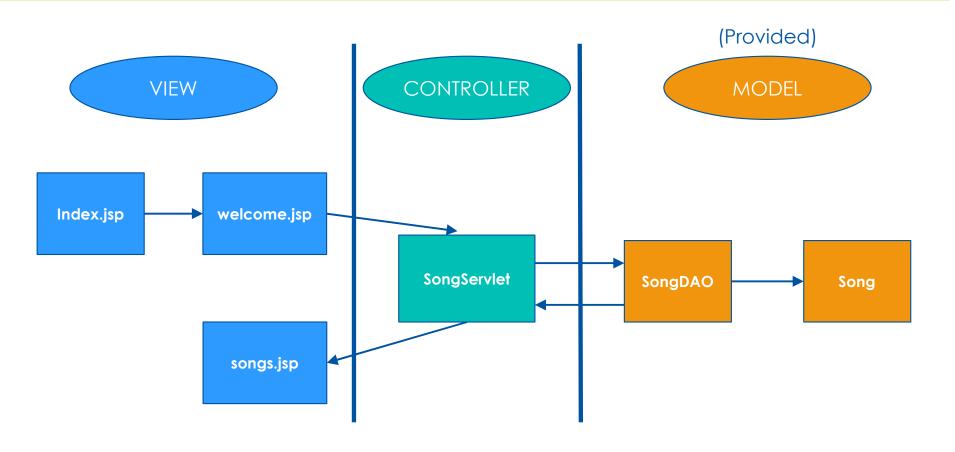
Import the Lab02\_ScriptingElements\_STARTER file and rename it to Lab02\_ScriptingElements

This is a maven project with the Tomcat dependency already added

- Examine the Song and SongDAO files in the com.music.model package
  - Song is a simple POJO (Plain Old Java Object)
  - SongDAO contains our fake data and access methods

A partially complete songs.jsp file is provided which we'll complete later

# **Application Overview**



- Right click on WebContent > New > JSP File
- Create an index.jsp page and add the code below

```
<title>Welcome</title>
</head>
<body>
        <h3>Welcome to Simple Song Service</h3>
        <br>
        <hr>
        <h3>Please enter your user name</h3>
        <form action="welcome.jsp">
                for="username">User Name:</label>
        <label
                 <input type="text" name="username"> <br/> <br/>
                 <input type="submit" value="Next">
        </form>
</body>
```

- Next, create a welcome.jsp file
  - Set the title to "Simple Song Service"
  - Add an Expression to get the user name from the request and welcome them
  - Add a link to invoke the get method of SongServlet (which we'll write next)

```
<title>Simple Song Site</title>
</head>
<body>
<h3>Welcome to Simple Song Service</h3><br><hr>
<%= "Welcome " + request.getParameter("username") %>
<a href="SongServlet">Show All Songs</a>
</body>
```

- You should be able to run the application on the server and see the following output
  - Note the "Show All Songs" link doesn't work yet





welcome.jsp

$\leftarrow$	$\rightarrow$	C	① localhost:8081/Lab02_ScriptingElements/welcome.jsp?username=Bardi+C
Wel	com	e to	Simple Song Service
Welc	ome	Bardi	. C
Show	v A11	Song	<u>s</u>

- Create a new Servlet to serve as our controller
  - Name it SongServlet
  - Put it in the com.music.controller package
  - Override the doGet method to do the following:
    - Create a new SongDAO and call the findAllSongs method
    - Set a session attribute with the key "Songs". The value will be the list returned from findAllSongs
    - Forward the request to songs.jsp (which we'll write next)

- Open the provided songs.jsp file
- Add a Scriptlet (think <% %>), that does the following:
  - Gets the list of songs from session attribute set in our SongServlet doGet method
  - Loop through the list and print out each song (including id, title, and artist)

```
<%
  List<Song> songs = (List<Song>)session.getAttribute("Songs");
  for(Song _song : songs){
      out.print(_song);
      out.print("<br/>);
  }
%>
```

Run the application. Your output should look something like this



id=101 title=Baby Love artist=The Supremes

id=102 title=Pancho and Lefty artist=Townes Van Zandt

id=103 title=Truth Hurts artist=Lizzo

id=104 title=Take It Easy artist=The Eagles

id=105 title=Your're So Vain artist=Carly Simon

Let's add a declaration (<%! %>) and one more expression (<%= %>)

- Work in your welcome.jsp file
- Declare a private variable for storing a discount code and a private method to get the discount code
- Add a message and an expression that calls the get discount code method

Run the application again, starting at index.jsp

This time, your welcome.jsp should look like the solution below

