Lab 4 - UseBean

Copy your Lab03_Directives project into a new project named Lab04_UserBean

We're going to create one new file
A User bean

Then we'll edit 2 files to demonstrate useBean
index.jsp to post a form
welcome.jsp to set and get properties

```
✓ 🏷 Lab04_UseBean
  > 🍴 Deployment Descriptor: Lab04_UseBean
  > 🌿 JAX-WS Web Services
  ✓ 🏠 Java Resources
    ✓ 🗂 src
      > ⊞ com.music.controller
      ✓ ⊞ com.music.model
        > 🗎 Song.java
        > 🗎 SongDAO.java
        > 🗎 User.java
    > 📚 Libraries
  > 📦 Deployed Resources
  > 📁 build
  > 📁 target
  ✓ 📂 WebContent
    > 📁 company_logo
    > 📁 META-INF
    > 📁 WEB-INF
    🌐 company_logo.svg
    📄 errorPage.jsp
    🖺 header.html
    📄 index.jsp
    📄 songs.jsp
    📄 welcome.jsp
```

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Create a new bean in the com.music.model package

Name it, "User"

Remember to make it a bean by:
- **Implementing Serializable**
- **Having private fields and adding getter / setter methods**
- **Ensure you have a public no-arg constructor**

```java
public class User implements Serializable {
        private String userName;
        private String ip;

        public String getUserName() {
                return userName;
        }
        public void setUserName(String userName) {
                this.userName = userName;
        }
        public String getIp() {
                return ip;
        }
        public void setIp(String ip) {
                this.ip = ip;
        }
}
```

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Edit index.jsp
- **Set the form method to post**
- **Change the input value of the name field to "name"**
- **Set the value of the ip field to an expression that gets the ip from the request**

```
<form action="welcome.jsp" method="post">
  <label for="username">User Name:</label>
    <input type="text" name="name"> <br/>
    <input type="text" name="ip" value= <%= request.getRemoteAddr() %>   > <br/><br/>
    <input type="submit" value="Next">
</form>
```

Lab 4 - UseBean

Edit welcome.jsp
- **Add a User bean with an id of "user"**
- **Set both the userName and ip properties**
- **Refactor the Welcome message to use jsp:getProperty**

```
<hr>
<jsp:useBean id="user" class="com.music.model.User"></jsp:useBean>
<jsp:setProperty name="user" property="userName" param="name" />
<jsp:setProperty name="user" property="ip"  />


<p>Welcome  <jsp:getProperty name="user" property="userName" /><br/>
    I see your IP Address is: <jsp:getProperty name="user" property="ip" />
</p>
```

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Check your pages to ensure they're functioning properly