

Book corrections for *Murach's Java Servlets and JSP*

Since the first printing of *Murach's Java Servlets and JSP*, we have identified a few bugs with the software on our CD. Fortunately, we have also found easy fixes for all of these problems as described in this chapter-by-chapter summary. In addition, we have identified a few trouble spots, and we've included some reminders that will help you work through those spots as quickly and easily as possible.

Chapter 7

Figure 7-14: The `NoSuchElementException`

If the `UserEmail.txt` file contains lines that have empty strings for the email or name fields, running the Download application may throw this exception:

```
java.util.NoSuchElementException
java.util.StringTokenizer.nextToken(StringTokenizer.java:332)
data.UserIO.getUser(UserIO.java:28)
download7.DownloadServlet.doGet(DownloadServlet.java:38)
```

If you encounter this bug, you can fix it by editing the text that's stored in the `WEB-INF\etc\EmailAddress.txt` file to make sure that each line in the text file has data for the email and name fields. Or, you can add code to the `getUser` method of the `UserIO` class like this:

```
if (t.countTokens() < 3)
{
    return new User("", "", "");
}
```

That way, the `getUser` method will return a `User` object even if an empty string is supplied for the email address.

Chapters 11 through 15

The message variable problem

In chapter 11 and chapter 15, the Email List and SQL Gateway applications use the same message variable that's stored in the session object. As a result, if you run the SQL Gateway application and then run Email List application presented in chapter 15, the initial JSP for the Email List application may display a nonsensical message. To fix this, you can close and open the browser to refresh the session object. Or, you can modify the SQL Gateway application so it uses a different variable name such as `sqlMessage`.

The null values problem

In some chapters (8, 11, and 15, for example), the initial JSP for the Email List application displays "null" as the initial values for the three text boxes. One easy way to fix this is to modify the default constructor for the `business.User` class so it initializes all of the instance variables to empty strings like this:

```
public User(){
    firstName = "";
    lastName = "";
    emailAddress = "";
}
```

Chapter 14

Don't forget to create the user and user_roles tables in the murach database

In chapter 14, the procedure for restricting access to resources works just as it did with Tomcat 4.0. However, note that the SQL script for the murach database does not create the users and user_roles tables. As a result, you'll need to manually add these tables to get the JDBCRealm to work as described in figure 14-5.

On the other hand, the SQL script for the music database does create the users and user_roles tables. As a result, another option is to use the tables in the music database to implement the JDBCRealm. To do that, edit the connectionURL attribute of the Realm element like this:

```
connectionURL="jdbc:mysql://localhost/music?user=root;password="
```

This assumes that you have configured the Music Store database driver as described in chapter 15 and as described later in this document.

Also, the SQL script for the music database differs slightly from the tables that are shown in figure 14-5. In particular, the password for the username of joel is 87band, not 86band.

Chapter 15

Don't forget to put the JAR file for the MySQL driver in Tomcat's common\lib directory

The applications in webapps\murach already have the JAR file for the MySQL driver in the WEB-INF\lib directory. As a result, they will work fine without installing the default database driver for Tomcat.

However, the applications in webapps\musicStore depend upon the JAR file for the MySQL driver being in Tomcat's common\lib directory. In addition, the JDBCRealm may depend on the MySQL driver being in Tomcat's common\lib directory. As a result, you need to make sure to put the mm.mysql-2.0.8-bin.jar file in Tomcat's common\lib directory. To do that, you can copy (not move) this driver from webapps\murach\WEB-INF\lib to common\lib.

Conclusion

If you encounter any other problems when using *Murach's Java Servlets and JSP*, please send an email to joelmurach@yahoo.com and I will update this document.

Thanks,

Joel Murach