

Task 6: Securing the system

So far, we can access any of the system's Webpages without going thru the login page (by simply changing the URL in the browser). For example, run your system and after the "/" at the end of the URL, type `Add.jsp`.

To make the system more secure, we need to check that the user is logged in before allowing access to any page. Let's try to do that for page `Add.jsp` after which we'll figure out an efficient way to repeat that for the rest of the pages.

At the very top of page `Add.jsp`, write jsp code to get the `UserConroller` session variable and check if it is null or if the `isLoggedIn()` method returns false. If so, then the user has not logged in; thus, forward him/her back to `index.jsp` with a proper error code (let's use code **-4** to inform the user that they must be logged in in order to access any of the system pages). Change page `index.jsp` to display a proper error message. Try it out before you proceed.

We can pretty much copy/paste this solution to all other pages but redundancy is never a good thing. Let's instead use the `<%@include file="somefile.jsp"%>` jsp tag. This tag allows us to include code from a specific jsp file into a Webpage. To do that, we'll need to remove the lines of code that we just added to `Add.jsp` in this task and put them in a new jsp page that we must create first. Create a new page (say `verifyLogin.jsp`), delete all the default HTML code that Netbeans inserts by default, and then insert the code that you just removed from `Add.jsp`. At the very top of every page in your system (except for `index.jsp` and `Login_action.jsp`) put the following line:

```
<%@include file=" verifyLogin.jsp"%>
```

Try it out!

Task 7: Completing page Edit.jsp & Edit_action.jsp

Page `Edit.jsp` should show a user form similar to the one in `Add.jsp` but this time it will be a complete form containing information on the selected user. It should use the `UserConroller` session variable to call method `getSpecificUser(String username)` in `UserConroller` using the provided username. Page `Edit.jsp` will then load the user's information into the form for display. Since the username field is not editable, it should be marked as *readonly*. The edit form will submit the updated information to page `Edit_action.jsp` which should, in turn, create a new `User` object using the submitted form information and use the `UserConroller` session variable to call method `editUser` by passing to it the newly created `User` object. Finally, page `Edit_action.jsp` should then forward page to `Menu.jsp`.

When done, make sure to add `<%@include file=" verifyLogin.jsp"%>` at the top of your `Edit.jsp` and `Edit_action.jsp` pages