

Phase 2 End Writeup

Developer: Alexander Garriga

Source code:

<https://github.com/agarriga21/HCLclassProjects/tree/master/phase-2-end/src/main>

My phase end 2 project which is a sample login and registration application uses a custom MySQL users created by me. This project also utilizes Tomcat version 9 and Hibernate.

The database users has a table called accounts which has five variables. They are: id, username, pass, fname, and lname. Id is a hidden value to the user which is auto incremented. The username and pass (password) are what the user uses for login credentials. Fname (First Name) and Lname (Last Name) are information shown when logged in. All the variables except id are chosen by the user through user registration.

The program uses six webpages. The first one is the main page which is index.jsp which has two links for either logging in or registering a new user.

When the user clicks login, they are directed to login.jsp which the user can type in an existing username and password to login. The submit button initializes the AuthenticateServlet to handle the user login information. Invalid information will have an error message appear on login.jsp page prompting them to try again. A valid input will go to the success page through the servlet. This page shows the users first and last name and a button to logout which goes back to index.jsp.

When the user clicks register on index.jsp, The user is taken to newuser.jsp which has input fields for username, password, first name, and last name. The submit button initializes the RegisterServlet which evaluates the information provided to determine if the entries are all valid. If something is invalid, the user will be taken to a page showing what is wrong with the inputs. These are the possibilities:

Invalid first name entry - empty entry

Invalid last name entry - empty entry

Invalid username entry - empty entry

Invalid password entry - empty entry

Username already being used - Servlet checks users.accounts if the username already exists.

This page has a try again button to return to the newuser.jsp
If the user types in valid information, they will be taken to another page showing success and the information they inputted in their account. The information is added to users.accounts table. The user will have a button to return to the index.jsp

The program is connected to the local MySQL database through hibernate and server Tomcat 9. The following is the url and the MySQL code used to create the database and table. One account is added as “admin” for testing purposes.

<http://localhost:8080/phase-2-end/>

MySQL Code:

```
CREATE DATABASE pets;
create user 'springuser'@'%' identified by 'ThePassword';
grant all on users.accounts to 'springuser'@'%';
CREATE TABLE users.accounts (
id int(11) AUTO_INCREMENT,
username VARCHAR(256),
pass VARCHAR(256),
fname VARCHAR(256),
lname VARCHAR(256),
PRIMARY KEY (`id`)
);
```

```
INSERT INTO users.accounts (username,pass,fname,lname) VALUES ("admin",
"admin", "Testfirstname", "Testlastname");
```

Project Flow Chart

