Phase-3 Practice Project

Implement Spring Security with Authentication

Writeup

- First I went to Spring Initilzr and created a maven project. Next, I downloaded the zip file and imported it into eclipse.
- I added the dependencies to the pom.xml file that were necessary to run the project.
 I then edited the Application Properties file to connect to my database, and added the username and password.
- I created a file for the homepage and added a login form. Users are redirected here unless they are authenticated.
- If the user logs in with valid credentials, they are taken to an index page.
- This page is very similar to the one used in the UserManager application.
- It has a view link which leads to the table displaying all the users.
- It also has a form to input the id of any user in the table.
- The user can then edit the name, email, and password of the specified user.
- I created a controller class which handles mapping for the homepage, index page, update page, and view page.
- I created an error controller which leads to an error page incase something goes wrong or the user tries to view a nonexistent page.
- I then added a user class, initialised it with the necessary components (id, name, email, password), and added getters and setters for these elements.
- I created UserRepository, a class that extends CrudRepository and allows me to make changes to the database.
- Next, I added a class called userService that used userRepository to find from the database.
- I then uploaded everything to my github.