

We'll use GitHub to share our code and IntelliJ as the programming language

Phase one: The goal is to get the Login and Registration page working, as shown:

The image shows two wireframe boxes side-by-side. The left box is titled 'Login page' in red. It contains a 'Username:' label followed by a text input field, a 'Password:' label followed by a text input field, and a blue button labeled 'Register Account'. The right box is titled 'Registration page' in red. It contains a 'Username:' label followed by a text input field, a 'Password:' label followed by a text input field, and a 'Re-type password:' label followed by a text input field. Below these fields are two blue buttons: 'Submit' and 'BackToLogin'. At the bottom of the right box, there is a placeholder for a system message: '<System message displayed here>' followed by the example text 'For example, "Registration failed. Username already in use"'.

Here are the tasks needed to fulfill this requirement:

Write code for an MVC pattern to serve pages:

- 1) Model will be responsible for modifying data (username and password)
- 2) View will be responsible for the GUI components (Display the login and registration page)
- 3) Controller will communicate between View and Model
- 4) A main code that will combine Model, View, and Controller to run the program

Note 1: here is an example of code for an MVC pattern:

<https://www.geeksforgeeks.org/mvc-design-pattern/>

Note 2: Model and Controller are fairly coupled, so it would be a good idea to have both people working on this, side by side.

5) Use MySQL to maintain info in the database. Info maintained will be determined by info in the Model.

6) Put it all together, test it, and deploy to a cloud provider (e.g. Amazon or GCP)

After completing phase one, the following should work:

- Display the login and registration page, as shown above
- Users (at least 2) should be able to register and have their info stored in the database
- Users (at least 2) should be able to log in by verifying their info in the database