

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 diagrams of web pages. The left diagram is titled 'Login page' and contains a 'Username:' label with a text input field, a 'Password:' label with a text input field, and a blue button labeled 'Register Account'. The right diagram is titled 'Registration page' and contains a 'Username:' label with a text input field, a 'Password:' label with a text input field, a 'Re-type password:' label with a text input field, a blue button labeled 'Submit', and another blue button labeled 'BackToLogin'. Below these buttons is a placeholder for a system message, indicated by the text '<System message displayed here>' and an example: '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, here is an example of code for an MVC pattern:

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

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