

(420-JD5-AB) Programming III FALL 2022

Test #1 [Worth 30%]

Due: 26 October 2022 at noon on Lea

Question: USER REGISTRATION

Design a Spring Boot MVC web application for user registration as in the figure below.

REGISTRATION FORM

Full name:		size must be between 3 and 50
E-mail:		must not be blank
Password:		must not be blank
Birthday:	mm/dd/yyyy	size must be between 8 and 15
Cellphone:		
Profession:		
Income:	0	
	Register	

The following validation rules (constraints) must be applied on the form:

- name: must have 3 to 50 characters.
- email: must not be blank and well-formed (email structure).
- password: must not be blank, must contain 8 to 15 characters, must be hashed in database.
- cellphone: must be exactly 8 characters long.
- birthday: must be in the date format yyyy-mm-dd. (@DateTimeFormat(pattern
- = "yyyy-mm-dd")
- profession: must be not blank. options: developer, teacher, engineer, scientist or programmer
- income: must be within the range from 20K to 200K.

- Once the program starts, a page named home.xxx is shown, which contains the name of the program (USER REGISTRATION FORM) with a button called Add User that will redirect the user to the registration page named register.xxx
- Once the user has successfully registered from page register.xxx by clicking the button Register, the details are saved in an appropriate table from a database called userDatabase
- then the program should redirect the user into a page named **welcome.xxx** where a welcome message is displayed which includes the full name, such as "Welcome Elie Mambou".
- JSP, html or Thymeleaf can be used to design the front-end part.
- The welcome page should also include a button **logout** which will redirect the user back to the registration form.

IMPORTANT: Submission guidelines

- 1. The project name should be called after your surname followed by your student ID.
- 2. Submit a single zip of your spring boot project as well as 5 screenshots corresponding to the following running test scenarios:
 - **a.** picture of a database table with at least 3 registered users.
 - **b.** picture to the home page
 - **c.** picture of whole blank registration page with all constraints displayed.
 - **d.** picture of a welcome page based on a user
 - **e.** picture of the hierarchy of all files from spring boot
- 3. All screenshots must show a background with your project name in Spring Boot. The browser can be resized in the screenshot to make room for a background.
- **4.** Only the last submission will be evaluated.
- 5. Failure to follow these guidelines will result in loosing points
- **6.** Plagiarism and cheating will be strongly penalized as per college policies.
- **7.** Do not submit any work via MIO or TEAMS.