# INET 2005 - Assignment 2

# Responsive User Registration

Assignment Value: *15*% of the overall course mark.

Due Date: 18th Oct(See the due date designated on Assignment 2 on Brightspace.)

Late submissions will receive the standard late submission penalty as stated in the course outline

#### Assignment Instructions:

Use an IDE to create responsive web applications using Spring framework (.java files along with bootstrap) in which you’ll code the answer for each of the following problems. **You must create a .java file for this assignment.**

#### Submissions:

When you are finished, commit your all files (.java format) to GitHub as your submission for Assignment 2. Also, share the screenshot of the outcome on the word document file name like **[YourName]\_INET2005\_Assignment2\_Output\_[ScenarioX].docx**.

#### Evaluation:

To ensure the greatest chance of success on this assignment, check the marking rubric at the end of this document or in Brightspace. The rubric contains the criteria your instructor will be assessing when marking your assignment.

Program 1 – Responsive User Registration

The user login and registration represent vital functionality that any e-commerce or social media-based website needs, and could also be combined with the Simple Content Management System

 Here are the primary requirements of this assignment:

* **Database Setup:** You'll need to create a database to store user information such as usernames, email addresses, and hashed passwords. This will involve creating a table with appropriate columns and setting up a connection to the database. MySQL is often a popular choice as it’s free to use and easy to learn.
* **Registration Form:** Create a form along with Bootstrap that collects user input for registration, such as username, email address, and password.
* **Registration Functionality:** Write a logic that processes the submitted registration form data. This logic should filter, validate, and sanitize the input data on the server side, check for existing users with the same email or username, hash the password using a secure hashing algorithm, and insert the new user data into the database.

By working on this assignment, you learn essential Spring concepts like form handling, input validation, database interaction, password hashing, and session management, helping you build a strong foundation in web development with Java.

**References**

* https://getbootstrap.com/docs/5.3/forms/overview/
* https://getbootstrap.com/docs/5.3/examples/sign-in/
* https://getbootstrap.com/docs/5.3/examples/checkout/

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| **Program 1 – Responsive User Registration** | | |  |  |  |
| **Criteria** | **Insufficient (0 pt)** | **Needs Development**  **(1 pt)** | **Sufficient (2 pt)** | **Excellent (3 pt)** | **Mark** |
| **Able to implement solution with Spring, MySQL and Bootstrap (HTML & CSS & JS)** | * Little to no effort was made or contains too many errors/omissions. | * A reasonable effort was made, but there are multiple areas for improvement. | * A good effort was made, but at least one error or omission exists. | * A excellent effort was made with no error and missing requirement. | /3 |
| **Able to create responsive login & registration web pages for different devices like desktop, tablet, and mobile.** | * Little to no effort was made or contains too many errors/omissions. | * A reasonable effort was made, but there are multiple areas for improvement. | * A good effort was made, but at least one error or omission exists. | * A excellent effort was made with no error and missing requirement. | /3 |
| **Able to create reusable components like**  **Registration ()** | * Little to no effort was made or contains too many errors/omissions. | * A reasonable effort was made, but there are multiple areas for improvement. | * A good effort was made, but at least one error or omission exists. | * A excellent effort was made with no error and missing requirement. | /3 |
| **Able to implement to all given requirements, and create feasible business logic** | * Little to no effort was made or contains too many errors/omissions. | * A reasonable effort was made, but there are multiple areas for improvement. | * A good effort was made, but at least one error or omission exists. | * A excellent effort was made with no error and missing requirement. | /3 |
| **Able to give Classroom Presentation & prepare GitHub README File** | * Little to no effort was made or contains too many errors/omissions. | * A reasonable effort was made, but there are multiple areas for improvement. | * A good effort was made, but at least one error or omission exists. | * A excellent effort was made with no error and missing requirement. | /3 |
|  | | | | **Total**: | /15 |