# INET 2005 - Assignment 3

# Responsive Login System (continue Assignment 2)

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

Due Date: 1st Nov(See the due date designated on Assignment 3 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 3. Also, share the screenshot of the outcome on the word document file name like **[YourName]\_INET2005\_Assignment3\_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 Login System

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.
* **Login Form:** Create another form along with Bootstrap that collects user input for logging in, such as email or username and password.
* **Login Functionality:** Write a logic that processes the submitted login form data. The logic should filter, validate, and sanitize the input data on the server side, query the database to find the matching user, verify the submitted password against the hashed password stored in the database and create a session to maintain the user's logged-in state.
* **Logout Functionality:** Implement a logic that allows users to log out by destroying the session, and returning them to the login page.

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 Login System** | | |  |  |  |
| **Criteria** | **Insufficient (0 pt)** | **Needs Development**  **(1 pt)** | **Sufficient (2 pt)** | **Excellent (3 pt)** | **Mark** |
| **Able to implement a 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. | * An excellent effort was made with no errors and missing requirements. | /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. | * An excellent effort was made with no errors and missing requirements. | /3 |
| **Able to create reusable components like Login () &**  **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. | * An excellent effort was made with no errors and missing requirements. | /3 |
| **Able to implement 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. | * An excellent effort was made with no errors and missing requirements. | /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. | * An excellent effort was made with no errors and missing requirements. | /3 |
|  | | | | **Total**: | /15 |