# Assignment

## General information

Course: PRJ301 Java Web Application Development

Contribution: 40% of course

This assignment should take an average student who is up-to-date with tutorial work approximately 5 weeks

**Plagiarism is presenting somebody else's work as your own. It includes: copying information directly from the Web or books without referencing the material; submitting joint coursework as an individual effort; copying another student's coursework; stealing or buying coursework from someone else and submitting it as your own work. Suspected plagiarism will be investigated and if found to have occurred will be dealt with failure of the course. All material copied or amended from any source (e.g. internet, books) must be referenced correctly according to the reference style you are using.**

## Assignment Submission Requirements

- Source code submited to Github repository

- Report for software design in .md format to Github repository. Read How to write in md format

- Lack one of them, student will not allow to do assignment's demonstration.

## Detailed Specification

You must provide a complete design and construct a Java web application.

Your report should include:

## 1. A case study:

Describes the system that you will implement (case study is not certain to be too detailed. It's just a paragraph so that the reader can understand the system that will be presented). You should mention the important issue; other detailed information can be presented in the form of Business rules.

- Name your system.
- What is the purpose of the system?
- Who will use the system?
- List of features your system can do, arrange these features in development classification.

## 2. Wireframe or Screenshots of the system

- Draw wireframe of your expected GUI or screenshots of GUI.
- A site map should be provided.

## 3. Database design

Comes with the interpretation (logical design, physical design).

- Draw your database with draw.io or any database tool you get used.

## 4. System design

A detailed description of how you design the system. You should provide your understanding of your MVC architecture and how your application implemented. The diagrams (eg UML: deployment diagram, class diagrams, sequence diagrams, state chart ...) should be provided if necessary.

A detailed description of any new technologies you find out (not in school) to develop applications.

Coding convention should be clarified.

## 5. Conclusion and Discussion

The pros and cons of the application as well as your design. What you've learned anything through the development of this application. In the future, if having more time, what would you do to improve it? Your implementation:

# Your demonstration

You will be required to briefly demonstrate your system (slide should be prepared). Prepare to answer the lecturer's questions

# Evaluation

- Case study: 10% - A case study certainly coherent
- Database design: 10% - The database is designed as standard and structured in accordance with the business rules
- System design: 20% - A design highlight the MVC pattern, the diagram used standard notations.
- Screen shots: 5% - A complete guide and understandable on used screens
- Conclusion and discussion: 5% - The personal opinions should be clarified. The knowledge learned should be highlighted.
- Demonstration: 50% - Programs comply with the proposed design. Operation with good quality.

# Proposed Topics

- Online fashion shop which sells man and woman clothes
- E-book library where people can share upload and share their books
- Love matching site where people can find thier lover based on their characteristics
- Real Estate website where people can upload their house information.
- CRM Systems to manage customers and their activities.
- Your proposed topic. You need approval from your lecturer.