

# CS 3415 Assignment 1

Due on Thursday, Oct. 2, 2014

Each student is required to do this assignment **individually** and to hand in the following:

- Complete solutions of Problems, showing all your work that including documents, diagrams and figures, if any.
- The answer should be nicely typed using a computer. You can use any computer program such as Wordpad, MS Works, MS office, etc. Each set of assignment solutions should put the following information as a cover page:  
Name, Student Number, Course Number (CS 3415), Assignment number and your email address.
- You may use UMLet or other software to draw UML diagrams.
- Staple your answer sheets together.

Assignments which are not met the above requirements will not be marked. The score of the assignment will depend on:

1. Specification and documentation: 15 %
2. Format and readability: 15 %
3. Correctness: 70 %

Submit your solutions at class on due date.

---

You are asked to do some requirement development. Suppose you are asked to develop a booking system for a public library system (not LU library). This system is not necessary on-line. Problems 1 to 4 are all about this system.

## **Problem 1.**

Define a possible scope for the system. First list a wide range of things that the system could do. Then narrow down the scope by selecting the most important features that you would implement in the first release of the system. Then give a precise problem statement for the system.

## **Problem 2.**

Identify stakeholders of the system. Select one important stakeholder and design a list of questions for interviewing that stakeholder.

**Problem 3.**

Give functional requirements and quality requirements of the system.

**Problem 4.**

Create a list of use cases and describe two of them in detail using the method discussed in class (two-column method). Then draw use cases diagram to describe the system. Indicate extension, generalization and inclusion, if there are any.