

# SOM Lab Exercise I

September 9, 2019

## Introduction

The goal of this lab exercise is to help you practice writing use cases and requirements documents. Unfortunately, we do not have actual stakeholders which you can interview. Instead, we have chosen a problem domain that should feel familiar to you. If you have any specific questions, you can ask your student assistant to play the role of a stakeholder.

## Exercises

In this exercise, your goal is to write (part of the) requirements for a *submit system*, an online system to be used by the University to collect submissions for lab exercises from students. Lecturers can set exercises; students can submit their solution; teaching assistants can download these solutions and mark them. Once all exercises have been marked, these marks need to be communicated to the students. In a single period many different courses use the submit system; each course may have different exercises.

You should consult Chapter 6 of Craig Larman's *Applying UML and Patterns*, along with the material listed on the SOM depository, for guidelines and examples of use cases. We have seen some informal use cases and scenarios in the clips, but a fully-dressed use case has much more information. Chapter 7 contains an example of a supplementary specification document, that you will also need to write.

**Part 1.** To get you started, answer the following questions:

1. Name at least three different actors related to the submit system.
2. Name at least four different stakeholders involved with the submit system's development.

Explain what role each of these actors and stakeholders have in the usage and development of the submit system.

**Part 2.** One obvious use case of the submit system is that a student submits his solutions to an exercise. Identify at least three other use cases and give a casual description of them.

**Part 3.** Write a fully-dressed description of the submission use case. What exceptional scenarios could occur? Be sure to adhere to Larman's guidelines for fully-dressed use cases in Chapter 6.

**Part 4.** Use cases are a great way to document the functional requirements of the system. What other (non-functional) requirements can you come up with? Give a (partial) supplementary specification for the submit system. Use the example from section 7.2 of (the Second Edition of) Larman's book as a template. (Note: this is Section 7.4 in the more recent Third Edition).

## Submission

Bundle your solution in a single .pdf requirements document. You are support to work in couples, but not in groups with more than two participants. *Mention you student numbers and names on top of your document.*

Submit this document using blackboard. Consult the course info page on blackboard for information about deadline and submission.

## Taal

De opdracht mag zowel in het Engels als Nederlands worden gemaakt. Zorg er wel voor dat je de format van use cases en supplementary specification documents, zoals beschreven in het boek van Larman, aanhoudt.