University of Calgary
Dept. of Electrical and Computer Engineering
Software Requirements Engineering – SENG471

Assignment 1
Formal Inspection of a Requirements Specification

Refer to the document "Assignment Schedule and Due Dates" on the Desire2Learn (D2L) site for the due dates and policy of late assignment submission.

This is a team assignment. *Each team submits one report. You should mainly use your designated lab time to get help on the parts of the assignment that you have difficulties to complete.*

The **objective** *of this assignment is to* conduct a formal inspection *of an existing requirements specification. This assignment gives you exposure to a real specification and some exercises in critiquing the specification. It is a chance to apply the ideas/methods covered in the lectures to understand how requirements are specified in practice.*

Total Marks: 10

How to Submit Your Assignments

Each team shall ***submit your assignments (in PDF files; one submission per team) to the "ASSESSMENTS\Dropbox" of the D2L site***. In your assignments, text font size should be at least 12 points. All margins must not exceed one inch. Your assignments must have **a cover page** with the following information (font size: 14):

Course Title: **Software Requirements Engineering**

Course Code: **SENG471**

Assignment Number:

Report Title:

Team Name:

Student Names[1]:

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[1] Use an astral (*) to designate your team leader for the assignment.

I. Doing Assignment:

This assignment has the following 9 steps:

Step 1: *Select portions of the document to inspect*. One sample requirements document is available on the D2L. Each member of a team shall read through the **whole** document to familiarize with it. The team shall then focus on inspecting the chapter "3 Requirements" of this document.

Step 2: *Select an inspection process*. The course notes offer several processes of conducting an inspection. Each team shall select one process; and shall also need to gather any supporting documents, including checklists, role descriptions, defect recording forms, etc.

Step 3: *Familiarize yourself with the inspection forms*. There are forms for documenting the defects discovered before and during the inspection meeting, and forms for summarizing the findings afterwards. These forms are available on the course D2L.

Step 4: *Choose the roles for your team members*. One team member shall chair the meeting. Another team member shall document the findings during the meeting. Other team members shall play roles needed depending on the chosen inspection process of your team.

Step 5: *Set a date, time, and place to conduct the inspection meeting*. The team leader shall make sure all team members are available for a 2-hour (at least) uninterrupted meeting at a quiet place to work.

Step 6: *Prepare for the inspection*. Each team member shall undertake a preparation for the inspection meeting before the meeting. The preparation shall include reviewing the document, conducting an individual inspection, and documenting defects using the forms on the D2L.

Step 7: *Conduct the inspection meeting*. Each team shall follow the chosen inspection process to conduct the inspection.   If any team member is not prepared before the meeting, the chairperson should postpone the meeting, and arrange an alternative date.

Step 8: *Summarize the findings after the meeting*. The chairperson shall make sure that someone collects all the forms together, and summarizes the defects discovered.

Step 9: *Write a report*. Describe the inspection process your team used, your key findings, and discuss any insights you gained, both on the nature of the document, the characteristics of the requirements inspected, and the essentiality of the inspection process. For example, if your team had to do it again, what would you do differently?

II. Hand-in:

Each team should hand in the following item:

Your team report (a soft copy in PDF format). The report describing your inspection should not exceed eight (8) single-spaced pages (not counting references, appendices, forms or tables). It should include following information:

1. A brief description of the document and the specific requirements that you inspect. Include any general observations of the quality of the document that you made prior to the inspection process.

2. A description of the inspection process you used. What roles did each team member take on for the inspection? How did your team structure the inspection meeting?

3. The results of the inspection. Use the forms on the D2L to document your inspection results. Use continuation sheets if you run out of space on a form. Include <u>the forms</u> <u>of</u> <u>your team inspection and all forms of the individual inspection of each team member</u> in the appendix of your report (If necessary, scan the forms to be part of the appendix).

4. A discussion of the lessons learned from your inspection meeting. Use the "Inspection Lessons Learnt Questionnaire" as a guide to help you think about what you learned. Attach your "Inspection Lessons Learnt Questionnaire" in the appendix of your report (If necessary, scan the questionnaire to be part of the appendix).