University of Toronto
Department of Computer Science

CSC340S - Information Systems Analysis and Design

February 14, 2003   **John Mylopoulos**

Assignment 2: Requirements Analysis

> **Due Date:** 12 midnight, Monday, March 10
> **This assignment counts for 15% of the final grade**

Work on the assignment is to be undertaken by *teams of three.*

The Assignment

The objective of this assignment is to give you practice in gathering information and completing al requirements analysis for an organizational information system. The problem you will be working on has to be a problem you or someone else in the class worked on for assignment 1.

This assignment has *6 steps.* They are:
1. Review the feasibility study for the problem you have chosen.
2. Discuss the feasibility study with the domain experts and get their feedback. Get additional information for the alternative recommended in the feasibility study.
3. Gather functional and non-functional requirements on the basis of the information you have assembled.
4. Model key aspects of the problem (such as the functional requirements for the proposed system) using use cases, class diagrams, state diagrams and sequence diagrams.
5. Use OCL to define invariants for classes, also pre-conditions and post-conditions for their operations.
6. Write a report that includes a requirements specification document and UML models of the functional requirements for your system.

Your report should contain the following information:
- Introduction

- The problem
- Alternative selected, described in English
- Requirements specification
- Appendices (UML diagrams, meeting held, other documentation.)

What to Hand In

Please submit your assignment **both** in hardcopy form **and** electronically by visiting the CDF electronic submission system at http://www.cdf.toronto.edu/students/submit.html. The hardcopy can be submitted to the instructor before/after the lecture, **or** to his office on Tuesday, March 11.

Marking Scheme

Requirements Specification (40%): Is your specification clear, well-structured, unambiguous, complete, easy to change, traceable etc.? (See slides on Requirements Specification)

UML Diagrams (40%): Are they correct, complete, consistent?

Report (10%): Overall structure and presentation of your report.

Style (10%): The style of your presentation, including language, grammar, clarity, etc.

Team Report Form
(*must* be submitted with assignment hardcopy)

Description of roles and contributions of each team member:

Name	% of team Effort

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