**Department of Computer Science**
**Com1001 CrossOver**

# COM1001 Crossover Project Stage: Requirements Document

**Hand out**: Monday, 16th November 2009
**Hand in**: Wednesday, 9th December 2009

Your task in this stage of the crossover project is to capture the requirements for the desired system and document the key features of these, although not as comprehensively as a proper industrial requirements document would.

Note that you are required to record the amount of time that you spend on the various activities associated with doing this, and submit this information at each stage. The blog should be used to do this

**FORMAT OF STAGE DOCUMENT**
This document should be structured as follows, beginning with various sections describing your work.

**TITLE OF PROJECT AND DOCUMENT NAME**

**NAME OF GROUP** (given by your tutor's name) **and its MEMBERS** (full names listed alphabetically**)**

**INTRODUCTION:** Starting with the statement of requirements that you have been given, briefly describe what clarifications you have found necessary. These are the alterations or additions that you have discovered are necessary by discussing ambiguous parts of the original requirements statement with the client. (Your group manager and a Genesys student play the roles of the clients for this system).

**MIND MAPS:** Use these diagrams to explore the main issues and to cluster related issues in a logical way. You should try to cover as many aspects as you can think of, the functional characteristics, the non-functional or behavioural issues, the operational environment, the users, the business etc.

**BUSINESS ANALYSIS:** Explain the purpose of the client's business, the principle business activities and processes. Suggest how the proposed system relates to the other business functions. Indicate any implications that the new system might have for the business as a whole.

**SYSTEM SCOPE:** If you feel that these requirements represent a system that would be too ambitious or would lead to various solutions for subsequent development, then identify a core part of it and as well as components and features that might need to be omitted.

**DATA MODEL:** Describe the main data captured for your system and the relationships between data components; use appropriate UML diagrams in your description and natural language to supplement them.

**FUNCTIONAL REQUIREMENTS**: This is a structured set of requirements, based on the previous sections of this document, with an indication of whether each one is *mandatory*, *desirable* or *optional*. These should be written as *stories*.

**NON-FUNCTIONAL REQUIREMENTS:** A description of the behavioural characteristics of the system – reliability, efficiency, usability etc. together with a brief description of how these will be measured.

**USER REQUIREMENTS:** A description of how the user might expect to interact with the system to carry out these functions, illustrated with prototype samples of the main screens that you would expect a user to see during the course of using the system, and appropriate explanation of the roles of these screens. These sample screens do not have to include every individual dialogue box/interaction that might be required, but they should include those needed for managing the main business data and key functionality within the system, and illustrate enough of the user interface that a potential user of the system could form

a reasonable idea of how they would be expected to use it. Include some simple X-machines (XMs) and possible screen shots.

**TEXTUAL COMMENTARY:** If you feel that there is any important information which is not conveyed by the XMs and screens and the UML diagrams, then add this information as a textual commentary on the above sections.

**GLOSSARY OF TERMS:** a short list of key terms utilised in this document.

The remaining sections of the document then relate to the processes that you went through in order to produce this material.

**OTHER COMMENTS:** Briefly discuss how satisfied you are with the result, any problems that you had, and how (if at all) you overcame them. If there are different approaches or models that you tried and rejected, what are they, and why did you reject them?

**GROUP ORGANISATION:** Briefly discuss how you set about the task, and how the group organised itself – as illustrated by the blog. *If the marks are not to be allocated equally, this is the place to say what allocation you prefer* (any disputes should be settled with your project manager during the management meetings or through emails!). Minutes of all the group meetings **must** be appended to this section – as obtained from the blog.

**AMOUNT OF WORK:** Briefly discuss how you would estimate the size of the problem that you had to tackle, the sizes of the components that will make up your system, and the amount of work that should have been involved. Compared to this, describe how much time you actually had to spend on the activities that made up this stage. You **must** append both a summary timesheet and your individual timesheets to this section – as obtained from the blog.

**WORK HANDED IN:** A word document will be submitted by the given deadline to Marian Gheorghe (email at m.gheorghe@dcs.shef.ac.uk); a copy will be uploaded on your blog.

**Marking scheme – total 100%**

**INTRODUCTION: ……5**

**MIND MAPS: ……..…5**

**BUSINESS ANALYSIS: ……..…...5**

**SYSTEM SCOPE: ……...……..5**

**DATA MODEL …….10**

**FUNCTIONAL REQUIREMENTS: ……..…20**

**NON-FUNCTIONAL REQUIREMENTS: ……10**

**USER REQUIREMENTS: ……10**

**TEXTUAL COMMENTARY: ……..……..…5**

**GLOSSARY OF TERMS……..5**

**GROUP PERFORMANCE (Blog) …….20**