ICS4U – *The Apprentice* – SDLC Case Assignment

Duration: **3½ classes**
Due: **Beginning of class Tuesday 23 October, 2012**
Format: **Hard-copies of deliverables, as described below**

For this assignment, you will work in groups of three of your choice. It may be useful to assign roles to each group member. Suggested roles include *recorder*, *resource manager* and *coordinator*. However, how the roles are assigned to group members is left up to each group.

Background:

Teachers at Markham District High School use *Trillium Subject Attendance Sheets* to report student absences (and lates) to the office on a class-by-class basis. You may be interested to know how the data on these sheets is processed and what is done with the information.

In this assignment, your group will define and model the functional requirements of the existing *Trillium Attendance* system.

User (and Subject-Matter Expert):

We are very fortunate in that Ms. Stanwick has made some time out of her busy schedule available to us. She is very familiar with the *Attendance* system. She will be available for only a 15-minute period and therefore will only be able to answer a limited number of questions about the functionality of the system.

Out of courtesy to Ms. Stanwick and in order to accommodate all groups at the same time, only <u>one</u> delegate from each group will attend the meeting. Please ***make use of the first work period to choose a delegate and plan your questions***. Of course all delegates will be able to use any information disseminated at the meeting, regardless of who has asked the question.

She will be expecting nine students (one from each group) in the main office during period 9 on **Friday 12 October**. Please demonstrate professional behaviour by planning to arrive and leave at the same time.

Other expectations of professional behaviour:
> be prepared for the meeting with Ms. Stanwick
> make the most of the meeting time - do not waste your time or hers
> be polite – remember to thank her for her time
> make notes – she will not be available for questions after the meeting

Task:

Model the functional requirements of the existing *Trillium Attendance* system, ensuring that the deliverables described below are complete.

Deliverables:

A.C.E. Logs:
- These are daily logs (one for each of the four in-class work periods for this assignment), word-processed, listing the Accomplishments, Concerns and Expectations of your group during each period
- Hard-copies of these logs must be submitted by each group at the end of each work period

Problem Definition Document:
- Produce a problem definition document (maximum one page)
- Don't forget scope and objectives
- Use the examples in the text as a guide

Mini-Feasibility Study:
- Produce a feasibility study document
- Do not be overly concerned with development time and costs; rather, try to make some realistic assumptions (hint: check with the teacher about these costs) and always state your assumptions
- Because, for the purpose of this exercise, we won't actually be going back to the end-user for feedback and approval, do not spend too much time worrying about the design of a new system; rather, simply brainstorming a few ideas will satisfy the "high-level design of the proposed system" step
- Remember: one alternative solution may be to "do nothing" (this of course won't make your sales representatives happy)
- Use the units and examples in the text as a guide

Analysis Document (including DFDs):
- Produce an analysis document
- Include system context, system and level 2 data flow diagrams
- Missing information (due to either our subject-matter expert not knowing how something is done or the analyst not asking) should be handled by making and stating assumptions
- Use the examples in the text as a guide

Marking Scheme:

Problem Definition	/10
Feasibility Study	/10
Analysis Document	/10
Data Flow Diagrams	/10
Daily Logs (*Accomplishments, Concerns, Expectations*)	/5
Group Participation	/5
	/50