COMP2110/COMP2510

Assignment One

Online Bookshop System

worth 15% of the course mark
due Tuesday 25 August 2009, 18.00EST
This is an individual assignment!

Introduction

Your task in this assignment is to create the software requirements specification (SRS) for a simple application - Online Bookshop System. The initial mission statement is short, vague and incomplete. It is an essential part of this exercise to add the missing system features and behavioural characteristics and formulate them as a set of SRS. The work on this assignment, therefore, will imitate a real process of eliciting the requirements from and inventing [1] them with the client.

Mission Statement

Imagine the task of developing an Online Bookshop. The bookshop should do what the traditional bookshops can do, including selling books to the customers, purchasing books from the suppliers, etc. It should also bring new features that the traditional bookshops do not support, such as selling electronic books, allowing multiple users to share one electronic book, etc. The shop must support easy administration, so the shop administrators can manage the customer details, sales, etc. Of course, the bookshop needs to deal with credit card companies or other financial companies to process the payment. The online bookshop must make the trading safe, efficient.

Problems and issues

The above mission statement deliberately leaves out important information such as how to make the administration easy, how to collaborate with the existing credit card companies, how to sell and purchase books, etc. You must analyse the vague mission statement to draw a list of functional and non-functional requirements.

Assessment criteria

The assessment is based on the quality criteria discussed in the lecture notes and the lab presentations:

- At Pass level, it will be possible to read and understand what is meant without straining for meaning, but there may be inconsistencies in level of detail and in the logical implications of the various specifications; there might be no justification or discussion of the improvements, or the requirements might be disorganised or badly organised.

- At Credit level, it will describe and justify the additions and resolve the existing ambiguities. The specifications will be logically organised (functional requirements grouped in accordance to what application's sub-tasks they define).

- The difference between Credit and Distinction level will be: distinction level is clearer, has few inconsistencies and no missing connections or functions. For earning Distinction, the report will include more general concepts (specifications that enable the designer to see what is general about the system like this one, so they can be re-used for designing another online shop), distinctly from what is special to the particular Online Bookshop.

- At High Distinction, it will be all of the Distinction quality, extremely clear and concise; possibly innovative, with solid justification for the innovation; conveniently organised for use; correctly self-referenced; aesthetically pleasing.

Expected length, structure, time

No diagrams are expected. If you want to use diagrams, make sure you have included the right references, and the diagrams are essential to your SRS. The whole SRS must not be more than 6 pages (excluding the title page), which means your functional and non-functional requirements must be concise, focused. The document structure must comply with IEEE standard for Software Requirements Specification guidelines as explained in http://cs.anu.edu.au/student/comp2110/resources/SRS-guidelines.html. In accordance with the College practices, the recommended time to work on the assignment is proportional to its mark: 15% in 15 hours. Remember that the assignments 2 and 3 will be based on this SRS, so the quality of the SRS will influence the quality of your future design reports.

Deadline and submission details

The submission shall be done electronically via DCS undergraduate labs. In a UNIX console, change into the directory which contains the **PDF** version of your report. The file name must be **ass1.pdf**.

Now execute the following command: submit comp2110 ass1 ass1.pdf . You can submit multiple times. To check your assignment submission go to: https://cs.anu.edu.au/streams/ (click on View Marks button).

Include your name and student number on the title page of the document.

The assignment 1 is due on Tuesday 25, August 2009, 18.00 EST . Late submissions will **not** be accepted. Extensions will be granted if a proper reason and supporting document are presented to the course coordinator in person prior to the deadline.

References

[1] J. Robertson, “Eureka! Why Analysts Should Invent Requirements”, IEEE Software July/Aug 2002, p. 20–22