CMSC 735 & MSWE 609

Assignment 2A

In order to give you experience with the nature of defects in software products, this assignment is an exercise in defect detection. Specifically, you will be asked to identify faults in requirements documents for various systems. The assignment is divided into several sections in order to give you some experience with a number of different defect detection techniques.[1]

In this part of the assignment, you are asked to find as many faults in the given requirements (for an ATM system) as you can. Chapters 1 and 2 of the requirements represent general requirements, that is, a high-level description of the system that can be assumed to be correct. Faults in the document will be found in Chapter 3, the detailed requirements from which the system will be designed and implemented. We estimate that this part of the assignment should take **2 to 4 hours**.

A fault in a requirements document is an omission, inaccuracy, inconsistency, ambiguity or anything that would lead to an unsatisfactory solution of the problem to be solved. It can fall into any of the following classes:

Omission	Necessary information about the system for me to do my job has been omitted from the requirements document, e.g. the interface to an external entity is not specified.
Ambiguous Information	Information within the requirements document is ambiguous, i.e. any of a number of interpretations may be derived that should not be the prerogative of the designer.
Inconsistency	Information within the requirements is inconsistent with other information in the detailed requirements.
Incorrect fact	Some sentence contained in the requirements document asserts a fact that cannot be true under the condition specified in the general requirements or general domain knowledge.
Extraneous	Information is provided that is not needed or used.
Miscellaneous	Other defects

Your fault list must be emailed to Ryan (rjones@cs.umd.edu) by **Sept. 30 at noon**. You should download the template report form 1.1 from the class ftp site and fill in your faults as described (if you have trouble downloading, let Ryan know and he will send an ASCII version of the file via email). A printed copy of form 1.1 is included with these directions to show you what kind of information must be submitted. Keep track of how long you spend examining the document for faults; you will need this information to answer some of the questions at the bottom of the report form (these questions are for statistical purposes only and will not be used in determining your grade).

Be sure to keep a copy of the completed form 1.1 file for yourself! You will need to reuse some of this information on future phases of this assignment.

[1] This assignment is part of a study. As always, working with another student will be considered cheating, but for the purposes of the study it is especially crucial that you do not discuss your work with other students in the class. The motivation and design of the study will be discussed in class later this semester.