

Assignment #3

Writing Requirements

CS 3398, Spring 2014

due: Section 251: Wednesday, Feb 19, and Section 252: Thursday, Feb 20, in class

(Type your answers into a file. Print a copy and bring it to class the day it is due.)

Write a user level and a system level functional requirement for each of the two functions described below. Your answers should be in the format of the example on slide 5 of the Chapter 4 lecture (the system level requirement will be a sequence of steps).

Keep in mind these instructions about functional requirements from the IEEE standard 830:

Functional requirements should define the fundamental actions that must take place in the software in accepting and processing the inputs and in processing and generating the outputs. These are generally listed as "shall" statements starting with "The system shall..."

These include

- a) Validity checks on the inputs
- b) Exact sequence of operations
- c) Responses to abnormal situations, including
 - Error handling and recovery
- d) Relationship of outputs to inputs, including
 - Formulas for input to output conversion

1. Write requirements for **the cash-dispensing function of a bank ATM**. You should assume the user's ATM card has already been submitted, the PIN verified, and "withdraw cash" is the chosen operation (do **not** include requirements for these actions). Consider what information must be gathered, what conditions must be checked, and what information must be recorded or changed.
2. Write requirements to describe **the spell-check and correcting functions in a word processor**. Assume that this function is activated when the user selects a specific menu item.