CS 347 Software Development Process

Assignment #1 – Requirements

Due: Tuesday, March 1

Form a group, decide on a project that your group will develop this semester, then turn in the following:

1. Names of the project members. A group should consist of 4 people. Your submission for this assignment should be submitted by only one of the group members but be certain that the submission clearly identifies all group members.
2. Brief description of the software system that you will build. The description should be less than a page in length, but enough so that the instructors can judge the purpose and scope of the system. The description should identify stakeholders and expected users.
3. 2 UML Use Case drawings for some of the major uses of your system. The first UML User case will include the requirements set by your team via the small paragraph. The second one will be an extension of the first one, that include the requirements set by the costumers and the stakeholders. We will be practicing an agile approach so it is not necessary at this time to develop a complete set of uses/requirements. However, at this time you should develop a reasonably clear idea of what the system will do, what roles the users will play, and how they will use your system. Show that you can describe some of the major uses via Use Case diagrams. Submit image files produced by Violet or any other UML tool that you choose.
4. User stories and Test Use Cases for some of the major features of your system as they are depicted in the 2 UML Use Cases. At this time there is no system to test so there is no need to write step definitions for Cucumber or any other automated test platform. Show that you understand the idea of an executable acceptance test.

A few comments and pieces of advice:

- You will not be graded based on how big and ambitious your project is. Of course, you won't be able to get away with doing something that is ridiculously small, but the grading approach will not be "whoever writes the biggest system wins." The purpose of this course is to learn process, so you will be graded based on evidence that you understand and can enact a software development process. Choose a project idea that is interesting to you, is doable by your group over the March/April time frame, is testable, and is substantial enough so that it makes sense to develop it as a series of successively more capable iterations.
- So you wonder: "how will we be graded?" Based on your system description, the Use Case drawings, and the feature files, the instructors should be able to develop a pretty good idea of what your system will do, who the users will be, and how they will use the

system. This will be the main grading criterion—whether the purpose, use, and high level operation of the system is reasonably clear at this early point in the process.