



SE3821: Software Requirements and Specification

Lab 4: Requirements Documentation

Due: November 12, 2013 23:59 CDT

1. Objectives

- Document Product Use Cases and Use Case Scenarios for the first phase of the project
- Document functional and non-functional requirements in a meaningful fashion
- Construct fit criteria for functional and non-functional requirements
- Document rationales for software requirements
- Use snow cards to aid in the creation of a requirements document
- Apply these techniques to the Volere requirements template.

2. Introduction

The purpose of this phase of the course project is to give you some practical experience in writing requirements and fit criteria. When you are done with this activity, you will have constructed a phase 1 software requirements specification for the drug reminder system.

Your SRS will not necessarily be complete or ready for implementation, but by the end of this activity, you should have a relatively good idea of the requirements for the product.

3. Process

3.1. Determine the product use cases and scenarios

The first step of this lab is to determine the product use cases and write use case scenarios. Using EA (or any other tool), construct a use case diagram showing the use cases for the system. This may involve revising the use case diagram you put together in lab 2, or it may involve constructing a new diagram from scratch. The diagram should include those use cases which you feel are most important for the system to have in the preliminary deployment.

For each use case, write one or more applicable use case scenarios. Again, with these steps, focus on the key areas of the system for which you have the most knowledge.

When this section is completed, section 8 of the requirements document should be completed.

3.2. Allocate areas to team members

Once the use case scenarios have been drafted, allocate the areas with the greatest knowledge to team members. Each team member should be responsible for writing requirements relevant to one or more use cases for the software.

To draft the requirements, you have been provided with an electronic “snow card” template in the form of a Google Doc. This is unique to your team and will allow you to enter requirements in the form discussed in class. Ideally, requirements should be traceable to a specific step of the use case scenario and should follow all of the appropriate forms.

Once a team member has completed a snow card, another team member should review the requirement, checking for clarity, meaning, correctness, and completeness. If the artifact needs further review, the reviewer either should meet with the initial author or another team member to determine the best mechanism for correcting the snow card.



Requirements should be drafted in this manner for both functional and non-functional requirements.

4. Drafting the requirements document

Once all of the requirements have been entered into the online Google repository, you will simulate the generation of an electronic requirements document from a requirements management tool. On the course website, there is a word document template. This template will allow you to automatically generate the written requirements from the Google document.

The Google form that you are using will generate a Google spreadsheet. This spreadsheet will have information on the requirement type, the use case the requirement is related to, the description, the rationale, the originator, fit criterion, customer satisfaction, customer dissatisfaction, conflicts, and supporting materials. If you export the form, you can create an Excel document. The excel document can then be mail merged with the template provided to create the requirements portion of your project in documented form.

5. Submission

Your team report will consist of an updated version of the SRS document from lab 2. This document should include the detailed use cases that you would deliver in the first product as well as the requirements derived from those use cases.

Your team should submit a pdf file to the course upload page.

If you need help with the assignment submission process, please ask.