

CSE 403 – Spring 2007 Assignment 2 - SRS

The goal of this assignment is to establish a solid definition of your project from which to base a design and implementation.

Due date: Tuesday April 17 before 10PM, using the turnin tool

Overview

Your team has been funded to produce the software product outlined in your LCO proposal. The "customer" hiring you to complete the project is a conglomeration, CSRocks Inc., which includes the executives (Alverson, Tungaraza, Zheng) and upper-level managers (another team of the class), who will meet with you periodically to discuss and evaluate your progress.

In this assignment, your team will specify the important requirements for your software project, as well as provide rough sketches of a partial user interface (UI) prototype.

External Requirements

While the customer likes the high level features outlined in your proposal, they are happy to leave the next level of refinement to you. They do, however, have the following requests:

- The product should be as usable as possible, even for people who are not expert computer users (with the exception of projects that are designed specifically for experts, such as development tools).
- The product must be robust against errors that can reasonably be expected to occur, such as invalid user input, lost network connections, etc.
- As before, the product must be a networked (client-server) application.
- The client must be installable for a person on a standard computer. If the product is web-based, the server must have a public URL that others can use to access it. If the product is a stand-alone application, you will be expected to provide a reasonable means for others to install the server and run it. You can expect that the user will have installed any necessary libraries and tools (such as a Java Virtual Machine, or a .NET framework runtime), but after that, the user should be able to download and run your system easily.
- That the product ultimately be made open source. As a step towards this, the software should be buildable from source by others, and well documented to enable new developers to make enhancements. Documentation will include design documents, test cases, and bug reports.
- See Appendix A for a project specific requirement for your project.

Beyond these requests, you are largely free to take the next turn of the product development spiral and firm up your product requirements. This requirements

document will essentially be a contract with CSRocks for what you plan to deliver. Consequently, you should talk to your customer, in particular, the upper level managers (who can consult with the executives, as needed) as you plan in order to make sure your product meets their needs.

Software Requirements Specification (SRS)

A Software Requirements Spec is a tool for capturing requirements of a product. We have placed a link to the SPS template to use for this assignment on the class web site.

The main product components to capture in the 403 SRS are:

- High level description of the product, along with its scope.
- Set of use cases, including at least one use case summary diagram and two formal use cases of the most important scenarios.
- Feature list, including what features you expect to be available for the beta release as well as the final 1.0 release. You may also specify a set of “stretch” features that could slip to 2.0 if necessary.
- UI prototype. At least two diagrams containing rough sketches of your product's user interface.

Note that this document will be a *living document*. You will be asked to provide updates to it at periodic points in the development cycle.

Deliverables and Grading

1. An SRS document.

A requirements document based on the description in this assignment and the template on the class web site. While some SRS are hundreds of pages long, yours should be 3-5 pages (for the text portion) at most, given the quarter scope of the project and the iterative development process we are taking.

2. Customer discussion artifact.

Records showing that you had at least one discussion(s) with the customer (your customer team from class) about the product requirements. Example artifacts include meeting minutes, email threads, and paper prototyping. These records can be submitted in hard copy if they are not easily available online.

Please have one person from your group submit your deliverables so that both files will be stored in the same place. The preferred names for these files are *YourProjectName_SRS* [doc|pdf], *YourProjectName_CustomerArtifacts*. [text|pdf]. Please have all group member names visible in each file. Use the turnin tool, “`attu > turnin -c cse403 -p srs <filelist>`”. ***This assignment is due before 10:00 PM, Tuesday April 17th.***

Appendix A: Executive Requirement

All teams: Scope the project to be of good size for the resources assigned.

School Talk: Integrate a third party instant messaging tool, or convince CSRocks why this would not be a good way to provide that service.

SuiteRates: Integrate a payment tool, like PayPal, or convince CSRocks that this is not feasible.

CourseRegistration: Include the shadow concept in the calendar. Integrate with real UW data from a UW data source or convince CSRocks that this is not feasible.

Sustainability: Address privacy and protection options for the data, including features such as permission to view, permission to update. Include a chart/graph view.