

CS 3398 – Software Engineering

Project 1

Software Requirements Specification

Assigned: Wednesday, 9/1/2021

Due: Friday, 10/1/21 at 11:55 PM

The first project consists of producing the Software Requirements Specification (SRS) document for an assigned software product.

I will email each project team their software product **problem statement**.

I have attached to the Canvas assignment an **example SRS** to give you a model to follow; use this example SRS to organize your SRS document. Please familiarize yourselves with the example; we will review it in class to answer any questions.

Rubric

Each document section shown below will be worth the indicated percentage of the total grade:

- Table of Contents and Introduction, 15%
- Overall description, 15%
- The sections on different interfaces, 15%
- The user classes and functional requirements, 20%
- The non-functional requirements, 20%
- The prioritization and release plan (appendix IV). 15%

Notes

- The example SRS uses the word “should” or “can” in the descriptions of the requirements, but it is better to use the word “shall.” Please use the word “shall.”
- Note that Performance Requirements, Design Constraints, and Software System Attributes are all examples of non-functional requirements.
- In prioritizing your requirements, you may choose any approach that your team can justify.
- The only appendix you will need for your SRS document is Appendix IV (the Release Plan).
- Make sure your document is checked with a spell checker and has no typos.

Terms Usage

As you define your software **user classes**, stick with the same terms (e.g., 'guest' or 'admin' or 'customer') so that we know who the document is referring to in any place. Establish a standard language. As you define your document's terms or objects (e.g., the client, or the reservation, or the transaction), stay consistent in their usage.

Metrics

The following are appropriate numbers for these elements of your SRS:

- 1 product block diagram
- 4 - 5 user interface diagrams
- 3 - 4 user classes
- 20 - 25 functional requirements (or features)
- 10 - 15 scenarios (across all features)
- 15 - 20 non-functional requirements
- 20 - 25 pages for the document length

Tools

Note the following diagramming and modeling tools which are available online:

- <http://staruml.io/>
- <https://app.diagrams.net/>
- <http://live.gnome.org/Dia>
- <https://inkscape.org/>
- <https://mockflow.com/>
- <https://lucid.app>
- <https://online.visual-paradigm.com>