

## Feedback on Project 2 Initial Project Plan / SRS / SDS

CS 422 Software Methodologies - Winter 2024

By Anthony Hornof - March 6, 2024

Criteria posted at: [https://classes.cs.uoregon.edu/24W/cs422/Project\\_Evaluation.html](https://classes.cs.uoregon.edu/24W/cs422/Project_Evaluation.html)

“Points: x / y” indicates that x points were earned out of a maximum possible y points.

### Group 5 - Nebula Net - Jacob Burke, Isabella Cortez, Freddy Lopez, Daniel Willard, Simon Zhao

#### Project Plan

- A management plan. How is your team organized? How is the work divided among team members? How does your team make decisions? How will your team meet and how will it communicate.
- Work breakdown schedule (with > 10 milestones) and project schedule (who will do what).
- Monitoring and reporting: How individual and project progress will be monitored to keep track of who did what and when did they do it?
- A build plan. What is the sequence of steps you will take to build the system? When will each "build" of the system take place
- A rationale for the build plan. Why have you broken the system into these parts, and why have you chosen these particular steps to build the system? What are your risks and your risk reduction strategies?

Points: 4 / 5

Good assignment of roles and tasks.

It would be good to see, at the end of the project, a sequence of, and record of, monitoring and reporting. Such as a record of the project manager confirming tasks have been completed.

It would be good to see a sequence of project timelines as the timeline evolved, and any meeting notes such as the meeting agenda, and what was discussed and decided.

Section 1.8 could be structured a little better. Either paragraph breaks are not clear, or topic sentences could be improved.

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#### SRS

- Problem statement - Clear and concisely, what is the problem to be solved? The problem, including the task requirements, should be described independently of the solution, the piece of software you will build.
- Description of User - Who are the users? What will they expect? What will they know already? What are their current technology usage patterns?
- Scenarios or Use Cases - Three specific, different, realistic scenarios.
- Detailed Description of Requirements - Expand the problem statement and generalize from the use cases. Include at least 20 specific and measurable requirements. At least 6 should be non-functional requirements.

- Both functional and non-functional requirements should be split between *absolutely required* and *not absolutely required* requirements. A reasonable number of *absolutely required* requirements are identified, well-specified but attainable.

Points: 4 / 5

The document is well-structured.

Very thorough.

The list of operational features and user classes are good.

The justification for the system could have been better-supported. It reads like unsubstantiated opinion (such as in 1.4.1).

The use case is good but pretty general.

Section 1.5 could be better-structured. There are paragraphs of lists. Please see the NRL SRS as well as [https://classes.cs.uoregon.edu/23W/cs422/good\\_writing.html](https://classes.cs.uoregon.edu/23W/cs422/good_writing.html)

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## SDS

- A description of the product you intend to build. This should describe the externally visible behavior of your product as precisely as possible, but it should be concise and clear.
- An overall design description. What are the major parts of your system, and how do they fit together?
- System structure is clear.
- Each major subsystem should be explained using a separate static model and dynamic model. All diagrams must be clear and understandable.
- Design Rationale. Why did you chose this particular design? What are the main organizing principles that you used to break your system into parts?

Points: 4 / 5

There are some lists within paragraphs, such as in Section 2.3, and parts of 2.4. Please see [https://classes.cs.uoregon.edu/23W/cs422/good\\_writing.html](https://classes.cs.uoregon.edu/23W/cs422/good_writing.html) . Please convey this info in the manner that makes it easiest for a reader to take it in, and to visually search, and to update.

The SDS is well structured but could also be structured a bit more. Think about ease-of-reading, ease-of-referring to, and ease-of-updating. I understand the numbering system is getting long but 2.4.1.1.1 (for example, perhaps others as well) could potentially be split up into multiple items. Surely there is a way to solve the long numbers that would result.

The diagrams show some very good design work, and could also be more clear. Many do not follow clear diagramming conventions. Perhaps review Fowler (2004) UML Distilled, or the UML material on the course web page, and in the lecture notes and book.

For example:

Figure ? on p. 21 contains good info but seems different from a UML component diagram (such as described in Fowler (2004) UML Distilled. It's hard to fully understand this diagram. Figure ? on p. 22 provides a good overview. Component names could be more clear within the diagram. Such as in the architectures shown in Sommerville. It could be more clear what Figure ? on p.24 is showing. Please see [https://classes.cs.uoregon.edu/23W/cs422/good\\_writing.html](https://classes.cs.uoregon.edu/23W/cs422/good_writing.html) regarding the use of figures. Thanks.

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### **Good Writing**

Throughout all sections: Good Writing. Structure the paper so that the main ideas are clearly accessible. Communicate individual ideas effectively. All spelling and grammar must be standard and correct. See [https://classes.cs.uoregon.edu/23W/cs422/good\\_writing.html](https://classes.cs.uoregon.edu/23W/cs422/good_writing.html) for more info.

The writing is clear but could have better use of topic sentences, and more internal structure. The paragraphs include good info but some are just lists. Some lack topic sentences. There is a fair amount of textual description of visual elements, system behavior, and lists. Please see [https://classes.cs.uoregon.edu/23W/cs422/good\\_writing.html](https://classes.cs.uoregon.edu/23W/cs422/good_writing.html) . Please convey this info in the manner that makes it easiest for a reader to take it in, and to visually search, and to update.

Regarding topic sentences, please see the excellent [https://canvas.uoregon.edu/files/17863993/download?download\\_frd=1](https://canvas.uoregon.edu/files/17863993/download?download_frd=1)

**Total Points: 12 / 15**