

**CIS 4250 – Software Design V**  
**Instructor: Prof. S. Scott**  
**Individual Accountability Report (IAR) #2**

Q1. Student Name: Jake Goode

Q2. Student ID: 1202742

Q3. Initial System Design and Product Backlog Creation (Sprint 0)

Q4. Team #: Section 2, Group 8

Q5. What were the main technical or methodological knowledge, skills and/or abilities (KSAs) that were required to complete this team deliverable? What prior courses or experiences (e.g. co-op, group project, etc.) from your Software Engineering degree did you draw on for these KSAs? (bulleted list is preferred):

Main technical/methodological KSAs

- Documentation outlining the system and future features with diagrams and detailed explanations of what to expect or how the system works.
- Attentional to detail while finalizing documents
- Collaboration of documentation
- Decision-making on the project
- Group communication
- Backlog creation on GitLab in terms of creating issues (user or tech) to reflect what is to be expected of us in terms of our explanation and proposal of future features

The previous courses I used to draw on for these KSAs were:

- CIS\*3260 (Software Design 4)
- CIS\*3750 (System Analysis and Design in Applications)
- CIS\*3760 (Software Engineering)

These courses are centralized with group communication and research to produce system diagrams, analysis, overviews, design recommendations, and backlog creation. Using my previous skills allowed me to properly comb through the systems code and produce the documentation as to what was required of us.

Q6. What was your existing level of experience with these topics/skills before your team began working on this deliverable? (1-2 sentences):

My level of experience with these topics/skills before my team began working on this deliverable was high. These are the same skills I have used throughout my program and the previous submittal, so I am very comfortable in using my research and documentation skills.

Q7. Comment on your individual KSAs learning during this deliverable, and what additional learning may be needed to understand or be more competent with these topics/tasks in the future?

- Attention to detail: I reviewed and edited the documentation before finalization and submission.
- Analytical thinking: Reviewed what was required for the documentation and compared the documents to the provided rubric.
- Time management: Used the whole time provided to ensure the documents were well reviewed to ensure we had the best version to submit.
- Collaboration: Discussed with the group members how to split up the work and which members were to work on what.
- Decision-making/Problem-solving: Determined where in the codebase our proposals need to be implemented to ensure we were aware of how our project will flow over time.
- Communication: Communicated with team members to ensure we were all on the same track for the documentation and project to be worked on.
- Documentation: Participated in the creation of both the team contract and project proposal.

As with my previous IAR for the last deliverable, most of my KSAs are the same due to the nature of both being documentation creation. I am hopeful that my next IAR will change due to working on the code base and completing stories/issues. I still feel that I am already comfortable with these topics/tasks but due to the last-minute change in documentation formatting (bullet point the paragraph), I learned that I can do better to refine these skills and confirm formatting issues ahead of time before something is due the day of. I can further my knowledge of these skills by looking more in-depth at our code base and providing a plan on how to tackle each of our issues in a timely matter. It also doesn't hurt to generate more research by searching on the same topics that we are proposing to apply to see if other developers had struggles with implementation or testing. I can always learn to practice more on my documentation and analytical thinking skills to provide more creativity, formal speaking, and documentation formatting (breaking into sections, headers, and table of contents) to provide more sound documents for submission.

Q8. What specific contributions did you make to this team deliverable? This should include technical or project management contributions.

For this team deliverable, I contributed to:

- The creation and finalization of both the overview of the current and proposed system.
- The backlog creation table and the issues on GitLab with prioritization ordering.
- Brainstorming on potential features to implement.
- Finalization of document formatting before submittal.

Q9. With whom did you collaborate for any of the above contributions (be specific – saying “all team members” is not sufficient. State which parts you worked on with whom)?

For the overview of both the current and proposed system, I worked with Andrew to complete this. I created the initial draft of those two questions while Andrew reviewed and added anything that I missed. Due to the fact that we originally had it as bullet points, I converted both parts into paragraph form to better adhere to the documentation. We communicated back and forth on what we wished to provide for those parts before we started to create the documentation for them.

For the backlog creation, I worked with Rashi on the table creation and I worked with both Rashi and Andrew to create the issues on Gitlab and order them according to our team's agreed-upon prioritization. I discussed with Rashi how the table was to be created to reflect what was required of us in terms of documentation. We used the user story description (as a <user>...) for each user story and provided an overview description of each tech story to ensure that each issue was properly described, and discussed how each issue should be weighed. To translate our backlog table to GitLab, I worked with Andrew and Rashi to create each new user and tech story and provided the correct description and weight before we organized them by priority on the issue board list.

Before submittal, I worked with all group members to brainstorm on potential features and review the documentation to ensure it was properly formatted before the pdf was created and submitted to the CourseLink Dropbox. We talked about each feature in detail and decided on how much each needed and see if it was plausible to do within a two-week sprint. If it was not feasible, we discarded the feature and went back to the drawing board.

Q10. Comment on how well you managed your time over the time period allocated in the Course timetable to this team deliverable (i.e. the time between the prior team deliverable to this team deliverable).

I managed my time well over the allocated time we had for this deliverable. I didn't rush to finalize my duties for this deliverable at the last minute as I worked on it throughout the time provided to me. Towards the end, we needed to rush and reformat our documentation from bullet points to paragraphs to provide more information for each required topic as outlined in the project manual. Apart from this hiccup, creating the documentation and having impromptu meetings to discuss required information and how we wished to explain our thought process went smoothly. From the previous deliverable, it was a bit more chaotic, but we managed to come together and adjust the documentation before finalization and submission.