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

Q1. Student Name: Ben Turner-Theijsmeijer

Q2. Student ID: 1152536

Q3. Associated Team Deliverable: Sprint 0: Initial System Design and Backlog Creation

Q4. Team #: 5 (section 2)

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):

- UML diagrams (class diagrams)
    - I learned about UML diagrams in CIS*3750 and 3260
- User Stories
    - I learned about user stories in CIS*2250, 3750, and 3260
- Git project management and configuration
    - CIS*3760 and co-op
- Project backlog creation
    - CIS*3760 and co-op
- Code analysis and reverse engineering
    - CIS*3190, 3260 and co-op
- OO design principles
    - CIS*3110, 3750, and 3260
- Professional documentation preparation
    - Slowly learning by exposure through a combination of all courses especially those in year 4/5

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

Before the start of this sprint, I was knowledgeable in these categories having come across all of the topics mention in one or more courses in the past. My previous co-ops in project management and software development also provided me with many of the skill required to do the work required in this sprint.

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?

During sprint 0 I had the opportunity to work closely with the rest of my team on creating a plan for building upon a pre-existing system. In previous courses such as CIS*3760 and 3260 I

experienced system design, using user stories, running sprints, and creating documentation but this gave me another chance to revisit many of those skill and strengthen them further, especially the capacity in which I create and write design documents. I learn this sprint how to better match my understanding of an application to a description and create written documentation that better follows academic expectations.

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

- The whole team worked together to analyze the codebase and create the class diagram
- Set up many aspects of our GitLab, including milestones, labels, and issue templates
- Created several user stories for the project backlog, after everyone had added their user stories into the backlog, went through the log and did initial prioritization, weighting, and editing of all stories.
- Helped write and edit several section of the initial design document Focusing mainly on section 2 and section 5
- The whole team worked together to finalize the backlog priorities and weights, split stories that were too large, and collaboratively reword ambiguity.

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)?

- Jeremy made the biggest contribution to the class diagrams, making a function diagram showcasing all of the different functions and how they all interconnected.
- I worked closely with Emily in the analysis and diagramming portion of the sprint, she created an initial design of what would become the task manager object before passing it onto me to finalize the design and create visual representation for the class diagram.
- The design document was as huge collaborative effort done across several group meetings and worked on individually by all of us.
    - At this point I added onto what was already there in sections 1 and 2.4 and did some formatting.
- Once the original design document was fairly complete Sara reworked it into a much cleaner state. After the rework the document got another drastic overhaul and expansion.
    - Emily extended our explanations in sections 1,2, 3, 4, and reviewed the document as a whole
    - Jen connected all of the sections together through references and expanded bullet point ideas into full paragraphs.
    - Jeremy aided in adding the backlog to the document
    - I helped reword and expand on sections 2, and 5 otherwise providing slight changes and auditing work as we went before final submission.
- For the gitlab backlog, we all came up with around 4 user stories each, once they were all in the backlog I created labels and did the initial prioritization and weight for all task. Along with rewording stories and adding rationale and how to test/demo to all that were missing it.
    - Ater that we all worked together again to finalize the backlog during a lab period

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).

Our time was well managed throughout the sprint, we had meetings almost every day of the week to check-in, assign work, and report what we had done. I had my assigned tasks completed for all meetings. Our team agreed during the Thursday lab it was due that we were happy with our document and backlog. However, upon showing our design document to the professor for a final review during that lab section they pointed out numerous places where we did not have enough detail or assumed knowledge on behalf of those that may read the document. So, despite our best efforts to have everything done in a timely manner we had to go back after getting that feedback and spend the rest of the final day to nearly double the length of our document, going from 16 pages to 25, by adding more detail right up until the deadline.