CIS 4250 – Software Design V
Instructor: Prof. S. Scott
Individual Accountability Report (IAR) #4

Q1. Student Name: Jake Goode

Q2. Student ID: 1202742

Q3. Sprint 2 (**2-week sprint**)

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 work performed during the sprint.
- Attentional to detail while finalizing wiki documentation
- Collaboration of working on code
- 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
- Understanding and creating code to produce desired outcomes

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 coding to produce proper wiki documentation and working code. Using my previous skills allowed me to properly outline the purpose of each issue and document the stage of the problem while it was being worked on. My main technical and methodological KSAs are the same as Sprint 1 due to the same content covered by both. Sprints 1 and 2 dealt with creating and breaking down GitLab issues, communicating with group members and updating new code to implement the new features created from the problem.

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 using my coding skills, and I feel comfortable with the new language used in our project.

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 wiki before finalization and submission.
- Analytical thinking: Reviewed what was required for the sprint and compared the documents to the provided rubric.
- Time management: Used the whole time provided to ensure the issues were completed to align the acceptance criteria and definition of done.
- 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 our code was working as intended.
- Communication: Communicated with team members to ensure we were all on the same track for the sprint and project to be worked on.

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. This IAR was slightly different, but the same as my last IAR, with working on the code base and completing stories/issues, but most KSAs still aligned with dealing with wiki documentation and ensuring everything aligns properly. I still feel that I am already comfortable with these topics/tasks especially using my previous skill with a coding language in not too familiar with. I can further my knowledge of these skills by looking more in-depth at our code base, understanding the language better, 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 (code commenting, detailed wiki documentation on issues) 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 of GitLab issues with proper acceptance criteria and definition of done
- Working on the currency conversion to change the numerical values from Canadian dollars to another currency (American dollars, Australian dollars, Euro, Japanese Yen)
- Brainstorming on what issues to do next sprint
- Finalization of wiki documentation before sprint freeze
- Sprint retrospective

- Implementing a delete button on the All Accounts page (stopped early on)

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 creation of GitLab issues and brainstorming on what issues to do next sprint, I worked with all members as this was a group effort to ensure we were all on the same page as to how each issue should be broken down and what issues we should work on for the next sprint. This was to ensure that every member was not kept in the dark or unsure of what they should be doing for either sprint. This also ensured that we were properly communicating and confirming as a group as to how the issues should be broken up. 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.

For the currency conversions, I worked with Anthony creating the wrapper method while I applied it to the correct values to be converted. I worked on applying the wrapper to the correct values so the correct currency values shown in the program can convert properly to the new currency selected in the settings drop-down menu, while Anthony worked on creating the initial wrapper method. We worked on separate branches to ensure we did not create any conflicts while coding or merging into the sprint 2 branch. We worked off separate branches from the sprint 2 branch to prevent conflicts between each other as well as preventing conflicts with other group members that were handling the language issue. I had slight difficulty with this issue due to the fact that the values that needed to be wrapped in the new method were found in 3 separate files and used either a text or number value to be passed to output so it could be displayed on the program. This took several hours to find, and I needed assistance from Anthony to confirm where the correct values were inside the program. The files either involved the main table that held all the currency values needed for the program, the budget summary file, or the budget display file that used custom envelope methods the access and display these values. I needed to find the main values that didn't involve the envelopes to properly convert the values when needed.

Before the sprint freeze, I worked with Rashi to finalize the sprint wiki to ensure that the issues and sprint were documented correctly. I confirmed this by referring to the rubric to ensure what we had everything needed. This also entailed the sprint retrospective after our demo to the professor and TA on Thursday.

A contribution I started but stopped early on dealt with introducing a delete button on the All Accounts page so you could delete redundant or made-in-error new transactions. The was stopped early on as a button was already implemented but was hidden inside a sub-menu. I worked on this by myself and asked the team if we wished to continue this issue or put it back in

the backlog to decide later in a different sprint. As a team, we decided to stop working on it and put it back into the backlog.

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. Due to the snow day as well as the break week, it caused a bit of confusion on how to proceed between sprints 1 and 2, but we decided to leave sprint 2 as 2 weeks. Apart from this hiccup, we ensured all the issues were completed before the 2-week sprint freeze so we could present what we completed during that time. The previous deliverable was less chaotic but proved more difficult to find the correct code needed to implement the features. After our sprint 2 demo, we confirmed what we are doing for sprint 3 early on and filled out the issue board so the burndown chart looks more fluid.