Post Mortem Group 4
Nelith Ranaweera

Q1. Student Name: Nelith Ranaweera

Q2. Student ID: 1192167

Q3. Associated Team Deliverable: Sprint 4

Q4. Team #: 4

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):

- Incorporating user feedback to improve designs
- Enhancing existing user interfaces
- Creating frontend components using React
- Teamwork/collaboration/communication
- Presenting project progress to stakeholders

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

I had prior experiences incorporating user feedback into software design through my HCI course, creating new designs for user interfaces through my UI Design course, and creating components using React from the prior deliverables of this course. Additionally I have gained experience presenting our project progress throughout the previous demos we've had for each 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?

Throughout this sprint I learned more about improving existing designs for users. This involved analyzing our existing interface, previous course materials, and user feedback to enhance the user experience. In the future I can improve in this area by implementing more features that afford accessibility to individuals of varying ability such as by incorporating screen reader compatibility.

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

My contributions during this team deliverable included improving the visual feedback on the flashcards to indicate correctness, improving the user interface on the dashboard, and redesigning a new glossary page. Additionally, I helped present our progress during the final presentation, manage documentation, and participated in sprint planning meetings.

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)?

I collaborated with Mathew to present our project progress during the demo, prepare the slides, and merge my features into the project. Additionally, I worked with Melissa to go through her feature branches during code review before approving their merge. Moreover, I worked with the entire team in a collaborative session to create the documentation for the sprint.

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).

We managed our time well by scheduling regular team meetings, keeping each other up to date on progress, and making informed time estimates. I made sure to work on my tasks as soon as I could to ensure there was no delay in other dependent tasks. This resulted in us being able to complete all planned user stories for this sprint.

1. Overall Contributions to the CIS 4250 Team Project

My main contributions to the development of the project outcomes included developing new features for the database, accounts, and flashcard systems, improving existing features through user interface enhancements, and presenting our work for each sprint during our lab demos. My contributions enabled users to create accounts, sign in, and sign out of their accounts, improved the flashcard system to record correctness scores for display on the dashboard, and enhanced the user experience through better interface designs. Additionally I helped with presenting our project during lab demos, working on the group wiki, and testing new features. My work could have been improved by implementing more features to take advantage of the data on our Firestore such as displaying statistics for each card on the glossary.

2. Technical Skills

Areas of technical skill that I developed throughout the project included learning how to use Firebase. At the start of the project I had an in depth understanding of how databases worked but never got the opportunity to implement one into an existing software application (typically done by other team members). After implementing Firebase to store user accounts for this project (in collaboration with Mathew) I have a much more in depth understanding of how user authentication, encryption, and data storage work for real world applications. Another area was my understanding of git as I worked with the various git tools throughout the development of this

project. At the start of this course I already had a strong familiarity with how to use git. Throughout this project I have extended my knowledge to include new commands such as rebase, how to better resolve conflicts, and best practices for collaborative work using git. Additionally, I developed a better understanding of frontend design as that was a major focus area for me throughout the project. At the start of the project I had previous experience using React through previous academic projects such as in my Software Engineering class. This project allowed me to further develop my skills to become more comfortable working with it in a practical setting.

3. Resource and Project Management

My contributions to team project management included actively participating in sprint planning sessions, ensuring that tasks were well-defined in the sprint planning, and preparing for our lab demo presentations. I also kept my assigned tasks up to date on the project wiki, maintaining clear documentation for tracking progress. Additionally, I played a role in coordinating team efforts by contributing to discussions on task delegation. Beyond these responsibilities, I collaborated with my teammates on written deliverables, participating in meetings outside of lab hours to work on our documentation.