CIS 4250

IAR #4
Sprint 2

Software Design V
Instructor: Prof. S. Scott

Q1. Student Name

Rashi Mathur

Q2. Student ID:

1125349

Q3. Associated Team Deliverable:

Initial System Design Design and Product Backlog Creation

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:

- Design Principles
- Ability to understand the codebase
- Typescript
- Creating project backlog
- Estimating task time
- Documentation

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

- CIS*3250 (Software Design 3)
- CIS*3260 (Software Design 4)
- CIS*3750 (System Analysis and Design in Applications)
- CIS*3760 (Software Engineering)
- CIS*4300 (Human Computer Interaction)
- Previous internship experience

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

Before working on this deliverable, I had experience with Agile methodologies, including sprint board management and team coordination, but I hadn't taken

on the role of an Agile coach before. Additionally, while I was familiar with AI concepts, I hadn't had the opportunity to experiment with different models firsthand. This project allowed me to apply my Agile skills in a leadership capacity and gain hands-on experience with AI research and implementation.

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 this deliverable, I strengthened my knowledge and skills in Agile project management by taking on the role of an Agile coach, managing the sprint board, and ensuring smooth team coordination. I also deepened my understanding of AI by exploring and experimenting with different models, which enhanced my ability to apply theoretical concepts in a practical setting. Additionally, I improved my documentation and presentation skills by updating the wiki and creating the final presentation.
- To further develop my expertise, I would benefit from gaining more hands-on experience with AI model fine-tuning and evaluation. Additionally, refining my Agile leadership skills, such as facilitating retrospectives and optimizing sprint planning, could help me be even more effective in similar roles in the future.

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

For this deliverable, I took on the role of Agile coach and managed the sprint board to ensure smooth workflow and task tracking. I contributed to AI research by experimenting with and analyzing different models, helping the team understand their applications and limitations. Additionally, I created the final presentation to clearly communicate our findings and progress. I also updated the team wiki to document our work, making it easier for future reference and collaboration.

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)?

- Collaborated with Jake in updating the sprint wiki and for the sprint retrospective
- Worked alongside Tony and Andrew to work on the AI research and prototyping

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 effectively by prioritizing key tasks such as sprint board management, AI research, and documentation. I ensured that I regularly updated the sprint board and kept track of progress throughout the sprint. Balancing research and technical exploration with project management responsibilities required careful planning, but I was able to allocate sufficient time for each. However, there were moments when unexpected challenges in AI model testing required additional time, which slightly shifted my focus. In the future, I could improve by setting stricter time blocks for research tasks to avoid delays in other areas.