

CIS 4250

IAR #2

**Initial System Design and Product Backlog
Creation**

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:

- System design knowledge
- Design Principles
- UML diagrams
- Ability to understand the codebase
- 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):

From my existing knowledge of software design patterns learned through previous design courses, I had a decent understanding of design patterns and UML diagrams. This allowed me to develop a good understanding of the code repository for our project.

I also was able to utilize my knowledge in creating tasks and estimations to create the user stories and story estimates for the project backlog.

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?

- Time Management: Since this deliverable demanded more time, I had to work that into the schedule and make time to update it according to the feedback we received during the lab
- Documentation: Participated in creating and updating the document according to the feedback from the lab meeting and feedback received for the previous deliverable
- User Stories and Backlog: analysed the design recommendation and created set user stories and the backlog table from there
- Analysis: expanded and elaborated on the system analysis part of the document.

In the future, I would like to spend more time on the setup and get some practical experience with typescript.

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:

- Set up the backlog creation table
- Populated a part backlog creation table with user stories
- Created the backlog in GitLab
- Rewrote the Analysis (Section 4) from the bullet points
- Formatted and edited the document

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 Anthony and Tony on the Analysis section
- Collaborated with Andrew on the Design recommendations
- Collaborated with Jake and Andrew on the project backlog table

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).

Between the previous deliverable and the current deliverable, I started out by first dedicating a couple of hours to understand the code how it works and connects together, playing around with the setup. As my teammates took the lead on making the diagrams and doing the system analysis, I dedicated time to review and understand their points to make sure that we were on the same page. I also participated in meetings (1-2 hours) to brainstorm our design recommendations and then added some user stories which took another few hours. I then created issues corresponding to the user stories in GitLab. Upon receiving feedback on our writing style, I rewrote the analysis in a more explanatory paragraph style and completed a readthrough of our document. These tasks demanded another 3-4 hours of my time. Overall, I managed my time quite well, consistently working towards the deliverable throughout the sprint concluding with a final push to correct our mistakes.