

IAR 1

Q1. Student Name: Habiba Mostafa

Q2. Student ID: 1070307

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

Q4. Section#, Team #: Section 2, Team 5

Q5. What were the main technical or methodological concepts and/or skills that were required to complete this team deliverable? (bulleted list is preferred):

- Project Management and resource allocation
- Written and Verbal Communication
- Knowledge of System Models: Sequence Diagrams and UML Class Diagrams
- Ability to identify system weaknesses and improvements
- Detail Orientation
- Gitlab: Milestones, Backlog, Time estimates, Priorities, Wiki

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

I was fairly familiar with most topics and skills required for this deliverable, but I definitely got to learn more about sequence diagrams, class diagrams and technical Gitlab functionalities as I haven't used Gitlab for agile development and version control prior to this course.

Q7. Comment on your individual academic, methodological, or technical learning during this deliverable, and what additional learning may be needed to understand or be more competent with these topics in the future?

- I was able to learn more about agile and version within Gitlab.
- As the scrum master for this project, I learnt more about all aspects of the project and the skillset required for enhanced performance and effective project management.
- Moving forward, I will need to learn more about burndown charts and team velocity within the Gitlab scope.
- I will need to practice using Gitlab along with code commits and reviews to ensure branch management, version control and documentation is efficient.

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

As the scrum master, I reviewed tasks and allocated them based on my team members' technical competence and personal preference. I led meetings, sprint planning and backlog refinement.

- **User Stories & Tech Stories:** Wrote a few user and tech stories and added their design/justifications. Grouped stories by features.
- **Class Diagrams:** Represented classes within Analytics, Utility and AppDefault. Reviewed the code and identified relations between project classes.
- **Sequence Diagrams:** Developed user stories for sequence diagrams and reviewed the 4 diagrams

created by my team members.

- **System Design Recommendations:** Added design recommendations in terms of modularity, class cohesion, coupling, design and new system functionalities.
- **System Analysis:** Analyzed existing system in terms of modularity, cohesion, design, architecture and system models.
- **Gitlab Backlog & Set up:** Set up backlog board and milestone 0. Created issues for 15 user stories and specified their weight, time estimate and demo description and reviewed remaining stories.

Q9. With whom did you collaborate for any of the above contributions (be specific)?

- **User Stories, Class diagrams and Sequence Diagrams:** All members of my team. We all discussed potential features and improvements and worked on developing user stories accordingly. We also analyzed the code to identify the system models.
- **System Analysis:** I collaborated with Jarryl on identifying weaknesses within the existing system and analyzing them.
- **System Design Recommendations:** I worked with Alex on identifying design recommendations and room for improvement within the existing system.

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 allocated additional time to meet with my team outside of lab hours throughout the sprint to work on different aspects of the project. During assigned lab time, I made sure I addressed the team's concerns and cleared any doubts with the TA.