Individual Report

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Contents

[Reflection on interaction within the project team: 1](#_Toc164325618)

[The organisation of the team: 1](#_Toc164325619)

[Meetings: 1](#_Toc164325620)

[Legal and ethical concerns: 1](#_Toc164325621)

[Management of the project: 2](#_Toc164325622)

[My most important contribution: 2](#_Toc164325623)

[Lessons Learned: 2](#_Toc164325624)

### Reflection on interaction within the project team:

In the systems development module, I was in a group that was tasked with creating a program to recommend to critical care unit staff which patients depending on their measurements taken should see a dietician and who should not.

### The organisation of the team:

I offered initially to start the literature review while others worked on displaying patient CSV data and the functional and non-functional requirements. Further into the project, I was mostly working on the code base while others continued to work on the database, login system and the report.

### Meetings:

The team held weekly meetings, which allowed each team member to decide what aspect of the project should be worked on next. Furthermore, discord was used to enhance communication outside of practical sessions. I attended all but one of the weekly meetings and, because the team leader's role changed every week, I led one of the meetings and helped assign team members tasks to do over the following week.

### Legal and ethical concerns:

We did consider legal issues one potentially being there could be personally identifiable data in the dataset which would violate GDPR. However, we concluded that the dataset did not contain any information that could link back to a specific person. I did consider sustainability issues as well because I tested our program on a 17-year-old laptop to ensure that our program would still perform well on older hardware.

### Management of the project:

The task we assigned did relate directly to the overall objective of the project, the team did not directly assign roles because we were following a scrum methodology, so the areas of focus changed every week, for example, one week I was focusing on the report and then the next week I was focusing on the code base. However, the team leader's role was changed every week so everyone could become the team leader at one point. The project plan was reviewed during the meetings as evidenced in the Gantt chart changing in the report. Risk factors were considered one example being problems arising in programming so, we allowed some extra time in the project plan, to reduce the impact of that risk. Risks with a higher impact and or likelihood were given more time in the plan to complete.

### My most important contribution:

My most important contribution to this project was the establishment of the GUI backend including a sidebar and a content viewer, doing this allowed team members to easily add extra functionality to the program. Furthermore, the sidebar made the program easier to navigate for the end user.

### Lessons Learned:

One lesson that I learned is how to avoid writing spaghetti code as previously in the advanced software development module, I ended up putting the majority of the classes in the main module of the program, as well as writing functions that could’ve been refactored, as a result, the code in advanced software development was hard to read and debug. Learning how to avoid spaghetti code has made the code in this project much easier to read and debug.