Personal Report

Group Organization

We organized all of our work both in person and online. We also held in person meetings every week. Communication was the key pillar in our project and as such we made sure to communicate as much as possible to avoid misunderstandings and make sure we had the optimal workflow. In addition we made a plan of execution, which we stuck to, which further helped our work by giving us a sense of direction and something to reference when one of us wasn’t sure what they were doing.

Project Execution

Most of the work wasn’t done in lesson. Each group member worked at their own discretion in their own time and efforts were coordinated online. We used the repository GitLab to store all of our work in one place. The core of the program was done in python. The GUI was done using tkinter. The reports were done with matplotlib. The accounts function was done using a mysql database. All of the reports, graphs and other various presentation materials were done with the Microsoft office ecosystem.

Risk Management

We were well aware of the existence of multiple risks when working on the project. We implemented a risk register to mitigate that and had multiple in lesson work sessions each week to have progress reports and discuss what has to be done next and any new risks and/or challenges that might arise. That way, we were prepared to deal with any potential problems and if an individual group member was struggling with something, they always had someone to ask for help.

Legal and Ethical

There were a couple of legal and ethical issues present with this project intrinsically, due to the nature of the data we were handling i.e. individual patient files. To make the data comply with GDPR laws, every entry in the CSV file has been anonymized.

Sustainability

To make sure we were working in a sustainable manner, we made sure to not use an excessive amount of computers, so as to reduce our carbon footprint. We also made sure that our code was efficient as possible to cut down on the run time and computational power required to run the program, which would further reduce the carbon footprint of our code. One of the main setbacks in our sustainability efforts, was the fact that we used GitLab to store our work, which was held in a big data center. That could have possibly contributed to polluting the environment, because our data was stored the aforementioned data center which presumably uses a lot of electricity in order to run.

Individual Contribution

My role in the project was mostly involving programming with some light admin work to go with it. The Bulk of my work was centered on the opening and reading of the CSV file and all the functions that went along with it such as displaying the file and it’s individual data entries in a table etc. I also worked on the reports, where I processed the data to make multiple graphs showing different statistics, that might be useful to user of the program.

Lessons Learned

Throughout the course of this project, I gained deep insight into the team dynamics that are the foundation of group work, such as this. In the week where I was the DeFacto group leader, I held a team meeting where everyone discussed their contributions to the project they had done in that said week, which gave me valuable leadership experience. Furthermore, I expanded my knowledge of python, mysql, tkinter and matplotlib, which were all necessary for the completion of the project.