Report

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# Introduction:

# Aims and objectives:

This project aims to develop a hospital dashboard which takes in patient data and flags the patients who are most in need of seeing a dietitian.

## Objectives:

1. We need to research similar projects so we can see what we can do differently.
2. We must assign specific roles to different team members to distribute the workload.
3. We need to come up with the design and test plan which will be figuring out the technical requirements and evaluating the use cases.
4. We must implement and test the project to ensure functionality and reliability.
5. We then need to evaluate which requirements we have met and or missed to see whether this project was successful.

# Literature Review:

# Requirements:

# Project Planning & Team Roles:

* Show patients admitted to the CCU

This task involves one of the team members writing Python code to open and read a CSV (comma-separated values) file and display its contents. Ideally, the code allows the user to choose a specific file they want to read and display as opposed to the file being hardcoded. Also, the contents of the file should be displayed in a Tkinter window in the form of a table. Realistically one person should be able to complete this task on their own in a short timeframe as this task does not have any complex requirements.

* Make an intuitive GUI using Tkinter

This task involves the creation of a User Interface which would be used to navigate between the different functions of our software. We’ll be using the tkinter framework that comes pre-packaged with Python. This will likely be one of the harder tasks and as such more members of the team would have to be allocated to it and it might take longer to complete.

* Write code that generates reports and graphs based on patient data

The objective of this task is to write code that interprets the data of individual patients and generates reports based on said data. It should also be able to look at the data of multiple patients and generate reports on them as well. The reports could be either in a table or graphically displayed in the form of multiple graphs. The task itself won’t be the most difficult in all likelihood and as such it won’t have that many resources dedicated to it. Perhaps two people should be able to complete it on time.

* Implement algorithms that evaluate patient data

This task aims to make a functional implementation of the algorithms provided in the case study. These algorithms would take in the data of individual patients and if they deem it necessary, the patient would get flagged to see a dietitian. This task could pose some difficulties and as such more resources would have to be allocated.

(Obviously, I can’t accurately predict how difficult each task would be, how many people would be working on it etc. These are just placeholders in reality we would do it first then edit the plan to match our approach. I based the objectives based on the case study and this is a mostly exhaustive list. If anyone wishes to add anything, by all means, feel free to do so :3)

# Implementation & Testing:

# Evaluation & Lessons Learned:

# References:

# Appendices: