

NAME: WONG KUAN YONG BRANDON

FYP: FYP-22-S409

STUDENT ID: 7430838

Week 1: 8/10/2022 - 15/10/2022

Objective Achieved

Got to know group members better.

We have set up a google drive folder to collaborate together as well as a discord server to communicate.

Did some research on different dental healthcare management systems

We also have decided the roles of everyone and have set goals for the group by the next meeting. (Do the first 4 questions for the project requirement specification)

Setbacks Faced

I feel that objectives to be achieved for the next meetings should be stated clearly so we have a clear goal in mind

Reflection

For this week, we got to know one another better as well as start on the first tasks set by our supervisor. We have researched 5 different companies/software vendors for a dental healthcare management system and have come up with the common features that they all have in common. So far we have set up the blog, did individual research as well as started a bit on the project requirements.

Week 2: 15/10/2022 - 22/10/2022

Objective Achieved

- Started working on project requirement documentation, answers questions based on project plan
- Started on gantt chart as well as work breakdown structure
- Went into first project meeting, got a better of idea of the whole structure of the project and what to do for the project requirement documentation

Setbacks Faced

We do not know whether our project requirement documentation should follow the sample sent or the project plan sent

Reflection

We continued the project requirement documentation by doing research on what language our project should be done in, the required databases (local or cloud) as well as what agile development methodology we should use. After the meeting, we have decided to focus on the work breakdown structure, mindmap to select functionalities for our product and understand our business model (SaaS).

Week 3: (24 October 2022 – 30 October 2022)

Objective Achieved

- Completed work breakdown structure
- Completed work breakdown structure
- Brainstormed on vision of prototype

Setbacks Faced

Some functionalities that we want to have in our finished product were removed for this iteration of the project requirement documentation as we want to get the basic functionalities correct before doing other functionalities

Reflection

We have drafted our first iteration of the project requirement documentation for our supervisor to view. By focusing on only the basic functionalities, it has also made it easier for us to have a vision of what the actual website is going to look like. When we did the work breakdown structure, I as a programmer had to also think how we would link each functionality together. For example, if i have a page of the website to search for all the appointments of a selected doctor, should i also include past appointments together with upcoming appointments or separate them. I thus decided that we would separate them by putting them in a separate page of the website, so as to avoid any confusion about past and present appointments.

Week 4: (31 October 2022 – 6 November 2022)

Objective Achieved

- Presented Project Requirement Documentation
- Made changes to Project

Setbacks Faced

We had a different vision of the product, we had initially assumed we just had to develop a web application for individual clinics rather than a product for multiple clinics and clients

Reflection

After presenting our PRD to our supervisor, we were on the right track but had to make certain changes to our PRD. Firstly the scope of the product we had in mind was incorrect, we should have thought of this product using a SaaS methodology, where we would have web applications for clients as well as clinics and they would be managed by us. We also reduced the amount of research we had written in the PRD as some of them were not necessary. The gantt chart should also have contained the tasks we were doing for the entire project, not just the first phase.

Week 5: (7 November 2022 – 13 November 2022)

Objective Achieved

- Made changes to PRD after review by supervisor
- Submitted PRD

Setbacks Faced

Not much, only minor changes to the PRD were required

Reflection

We had a meeting with our supervisor regarding the project requirement documentation that he had reviewed thoroughly. We had to make a few minor changes such as adding the features of our product into the feature comparison list as well as editing the softwares we are going to use to make them more relevant to the project.

Week 6: (14 November 2022 – 20 November 2022)

Objective Achieved

- Started work on system requirement documentation
- Completed first draft of System requirement documentation

Setbacks Faced

The sample we were given was a user requirement documentation, so for the SRD we were unsure of what to include besides the use case description and diagram. Also for the next document, we were also unsure if we had to include a sequence diagram as we are using html + php, so we are unsure if we have to do object oriented programming

Reflection

We had started and completed the user requirement documentation in the same week, and are now waiting for our supervisor's feedback. We have also put some rough thoughts into the technical design manual and potential problems we may face coming up with that document.

Week 7: (21 November 2022 – 27 November 2022)

Objective Achieved

- Started on Technical design manual
- Started on prototype

Setbacks Faced

- Unsure of TDM sequence diagram
- Trouble with bootstrap and html

Reflection

We were unsure of the technical design manual's sequence diagram as with html & php we were unable to do a BCE. After consulting with our supervisor, we understood that the purpose of the diagram was to show the flow of a task, so we did a variation of the sequence diagram to show that.

As for the prototype, I wanted to use bootstrap as our product is designed to be used on different devices as long as a web browser is present. I had trouble using bootstrap as I had never used it before, it took me a few hours to understand the bootstrap grid and container system. Afterwhich, I was able to create part of the prototype with much greater ease.

Week 8 (28 November 2022 – 4 December 2022)

Objective Achieved

- Continued working on prototype
- Completed TDM
- Started work on project progress report

Setbacks Faced

- Prototype uncertainties

Reflection

We are nearly halfway done with our prototype and continue to work on it with some changes. These changes were due to the meeting with our supervisor where he made some very good suggestions and brought up many points. We have also started working on the project progress report and are aiming to complete the prototype before the submission of the progress report as the report requires screenshots from the prototype.

We also have to consider certain design choices of the prototype and wireframe, as our supervisor brought up the point that the user should be able to do what they want with as little clicks/manual inputs as possible.

Week 9 (5 December 2022 – 11 December 2022)

Objective Achieved

- Completed work on prototype, user manual and project progress report.

Setbacks Faced

- Waiting for feedback from our supervisor.

Reflection

We have completed our first iteration for our prototype and are currently waiting for feedback. We have updated all the documents according to our prototype and have made sure the prototype functions well without any bugs.

Week 10 (12 December 2022 – 18 December 2022)

Objective Achieved

- Minor edits to documentation, polished up prototype
- Presented prototype to assessor, received feedback

Setbacks Faced

- Some features in the project description were not present in the prototype

Reflection

After the presentation to our supervisor, he expressed his concern about the direction our project was heading, and that we were not focusing on the project description. After receiving this feedback, we had a short discussion with Mr Premerajan that alleviated our concerns. As a result, we will continue to head the course with additional focus on the features in the product description

Week 11 (19 December 2022 – 25 December 2022)

Objective Achieved

- Went on holiday
- Minor changes to prototype

Setbacks Faced

- None

Reflection

This week I changed the prototype to suit the feedback from our supervisor and assessor. Only minor cosmetic/static changes were made.

Week 12 (26 December 2022 – 1 January 2023)

Objective Achieved

- Started work on database and backend

Setbacks Faced

- Some difficulty in logic for linking databases to one another

Reflection

This week I had started and completed some pages such as patient registration and account creation. These went smoothly given the necessary research into new features I have not had any experience with such as google recaptcha and file uploads. There was a learning curve applying the new code to our application, but I was able to integrate it successfully after some time.

Most of the difficulty came from the linking of database tables, as we had overlooked some things during the planning for the database. For example the storing of images in the database was not possible, only the storing of the directory of the images stored on a local machine.

The project is making steady progress as some code will be reused in different parts of the project.

Week 13 (2 January 2022 – 8 January 2023)

Objective Achieved

- Continued work on backend and database

Setbacks Faced

- Still some difficulty in logic for linking databases to one another

Reflection

This week I had completed the clinic registration and the databases involved. I spent quite a large amount of time thinking of how to do the database as I had trouble with how I was gonna store which services different clinics selected. After I had completed it, I went back to the patient registration and am now attempting to retrieve medical history from the database via ajax. Next week I will work on retrieving the clinic account application from the database by the super admin.

Week 14 (9 January 2022 – 15 January 2023)

Week 15 (16 January 2022 – 22 January 2023)

Week 16 (23 January 2022 – 29 January 2023)

Week 17 (30 January 2022 – 5 February 2023)

Week 18 (6 February 2022 – 12 February 2023)

Week 19 (13 February 2022 – 19 February 2023)