**Statement of the Problem**

The patient information is stored in an index card that is placed in a box, while patient’s files like radiographs and image are also placed in a separated box or storage which causes slow retrieval of information needed and sometimes the files get lost.

Hence, doctors consume longer time in making diagnosis because of delayed medical information from the patient, or less accurate diagnosis because of the lost records.

**Objectives**

The main objective of this project is to develop a database management application for Apelo Dental Clinic so that patient information will not get lost and can be access quickly. This application should be available in PC and tablet where doctors on the operating room will have the tablet instead of accessing information via index card and other hard copy documents. Thus, the team must develop the following features:

* Develop a protype for PC and tablet.
* Search bar for retrieval of patient record.
* Page for uploading information for new patient.
* Interactive teeth-numbering model system where doctors can check for a specific problem on a certain tooth.
* Page for payment information section.

**Feasibility**

Operational feasibility

Apelo Dental Clinic's (ADC) patient information are stored in the index card that are filed in a box. As the team propose to Doctor Denroe the initial plan to implement a website with the main feature to adress the appointment system, he decline to it due to the reason that there's no fix time for each patient's procedure. He rather suggest to have a database for patient's information due to several problems that the traditional file systen are causing. Hence, the support of the management to the project is certain.

Soon as the clinic will transition from index card file system to computerized, there would be a need for testing and brief training for navigation and how-tos of the system.

The secretary and staff in payment section has the knowledge of using computer programs, while the doctors have no problem in transitioning to tablet-based information retrieval as they all agreed in implementing the application and are using smartphones.

Documentation will also be available to the development of the application so that the future IT who will mantain the program will not have a hard time to make modifications on it.

Economic Feasibility

ADC's facility is already equipped with desktop computer, wifi and printer which are the initial hardwares equipment needed for the project. However, the tablets which are the alternative for index card are still needed to be canvas for estimated price, nevertheless, Doc Denroe was already informed about the possible cost as the idea of tablets are suggested by him.

There will be no need for any software subscription for the development of the system as the language for development will be open-source and the database will be RDBMS of phpmyadmin via XAMPP.

Although the development of the project will not assure to increase profit of the clinic, customers' and employees' satisfaction for faster waiting time due to fast retrieval of information and paperless transaction will outweigh the cost of the project development.

Technical Feasibility

Tablet is the only hardware that the clinic lacks for the initial assessment of hardware requirements, nonetheless, tablet can be easily purchased today with lower specifications that can support the program to be installed. Since RDBMS is the database needed for the application, the future needs for memory capacity of the program is more likely to be contained in free database software as they offer large memory capacity in terms of clinic-size database.

Schedule Feasibility

The full implementation of the application will be on January 2023, aligned with the end of SCSPROJ. The features to be implemented