



CHAPTER I

INTRODUCTION

This is the introduction section of a report for a management system. It will provide an overview of the application and its project background, problem identification, objectives, significance, scope, assumptions and limitations. Information about the management system will be included in the background section of the report.

1.1. Project Background

A clinic management system which calls CMS in short is a management system which specially designed for most of the general clinic for keeps track their daily clinic operation information.it gives you a unified managing patients,doctor, inventory, billing information ,finances and more.

In the clinic management system, there is a problem that is an obstacle to the user of the management system. The system implemented by several clinics is a separate management system so that the management system that handles certain fields is in its own management system making it difficult for users to operate it.

The problems that exist in some clinics have advantages and disadvantages. The drawback is that users who operate the management system themselves have difficulty in operating it because they have to open the management system one by one when entering data according to these fields.



Based on the problems above, this proposal will build an application clinic which can be operated by users becomes easier without having to open one by one in operating the application. The implementation of the system uses a database Microsoft Sql Server as back end and Visual Basic as front end .

1.2. Problem Identification

The problem statement that can be highlighted throughout this research are:

- 1.The use of paper-based forms for patient registration in clinic which makes many mistakes such as unclear writing, incorrect data entry and many others.
- 2.The absence of a standardized approach to managing clinic operations across different fields can lead to inconsistencies in data formats, processes and workflows, posing challenges in data management and analysis.
- 3.Data collection, search for medical record data that is less effective.

1.3. Objectives

The main objective of this project are:

1. To develop Clinic Management System, there are no more errors in writing in the form.
2. To establish standardized processes, data formats and workflows across different fields in the clinic management system, ensuring consistency and accuracy of data management and analysis.
3. To generate report such as scheduling doctors on duty and storing data on diseases experienced by patients.



1.4. Significance

This part of the research contains few beneficiaries. The first one would be to successfully create a software where patients can add and edit patients easily and efficiently.

Not only that, this system also creates a queue numbering feature that can be choose by patient when a patient is registered on a software and also makes an online appointment for patients who can choose a date to make an appointment.

Lastly, this system creates a feature where patients can registering online so that the clinic of patients who want to be treated as patients with the correct identity.

1.5. Scope

A scope of work is a list of tasks that must be completed in order for the project to be completed within its specified boundaries. The work scope is important for ensuring that the project is on track to meet its objectives. The goals of this project are to build a software management system.

1.6. User Scope

1.6.1. Admin

- Can add and modify all the profile and medical records
- Can print medical records reports.

1.6.2. Doctor

- View appointment.
- Doctor can choose medicient for patient.

1.6.3. Patient

- Patients can register by filling the data on the form.
- Patients can choose the appointment date.



1.7. System Scope

- The clinic management system (CMS) is designed specifically for general clinics to keep track of their daily operations, including patient management, doctor management, inventory management, billing information management, finances management and more.
- The CMS aims to provide a unified platform for managing various aspects of clinic operations, eliminating the need for separate management systems for different fields.
- The system will be implemented using a SQL Server database as the backend and Visual Basic as the frontend programming language.



Assumptions and Limitations

1.8.1. Assumptions

- Help improve the quality of registration data processing so that the resulting information is more effective and efficient
- Provide convenience to patients so that patients can register online.
- Make it easier for the clinic to recognize patients because this system has a record from the data patients.

1.8.2. Limitations

- This application is limited to containing the online registration process for prospective clinic patients.
- An internet connection is required to do the online registration, otherwise the patient cannot do the registration.