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DEPARTMENT OF INDUSTRIAL AND INFORMATION TECHNOLOGY
TITLE PRE-APPROVAL FORM

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PROGRAM: BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

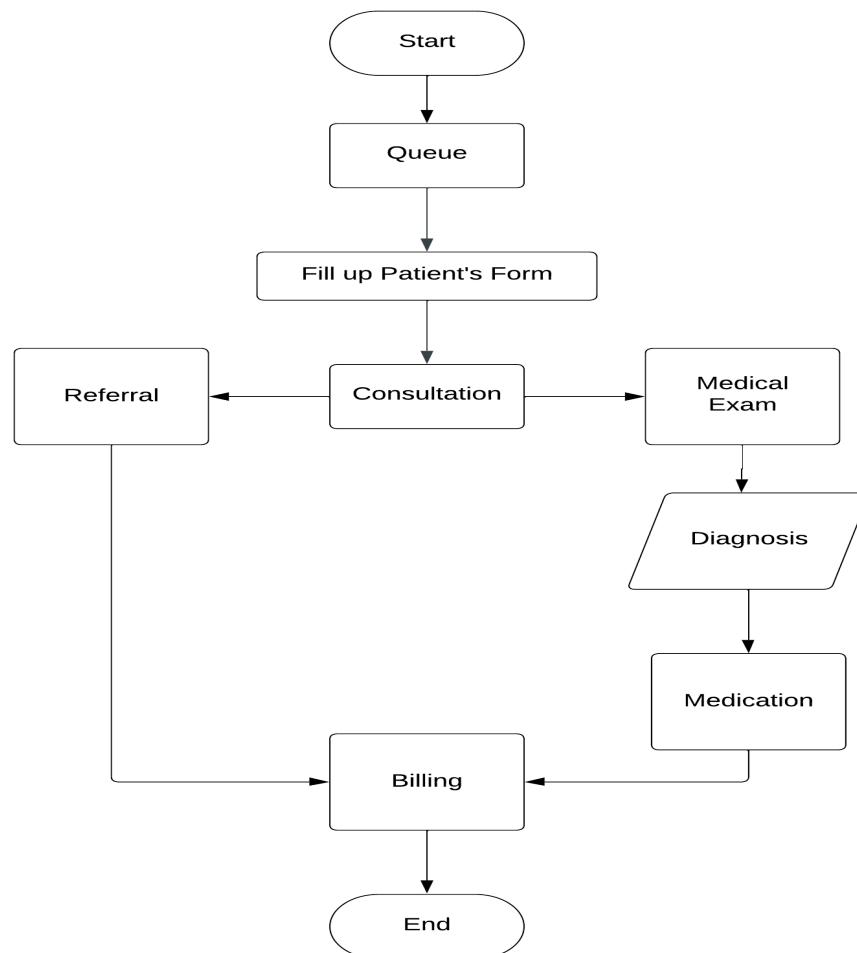
PROPOSED TITLE: CLI-NICK: A CLINIC MANAGEMENT SYSTEM FOR HOLISTIC CHOICE MULTISPECIALTY AND CLINIC IN TIMBAO, BINAN, LAGUNA

Background of the Study/Research Locale

According to Stever (2019) A Clinic Management System provides a suite of functionalities that makes it easy to manage a clinic. This is often used to manage the patients, the appointments, the doctors' schedules, billing, inventory and many more. Azuan (2020) stated that the Clinic Management system is both necessary and an asset to the clinic specially that the world has embraced the era of technology. With this system, the operations of the specific clinic would become effective and efficient.

Holistic Choice Multispecialty and Clinic is located in Blk 1 Lot 4 Southville 5, Timbao, Binan, Laguna. The clinic was established in 2014, it is privately owned by Doctor Armie Salaysay who specialize in General Medicine, HCMC provides different kinds of medical service. Their services include OB-Gyn consultation, internal medicine, surgery, pediatrics, general medicine, laboratories, and x-ray. The clinic consists of 6 doctors, 1 clinic admin, and 2 nurses, The clinic has three departments and those are Family Medicine, OB- Gyne, and Pediatrics. In general, the clinic's average number is 15 to 30 patients a day, although this depends on the specific circumstances in the clinic. With this, Holistic Choice

Multispecialty and Clinic faces operation challenges that hinders the smooth operation of the clinic.



Business Process

The flowchart depicts the business process of Holistic Choice Multispecialty Clinic, It starts with the queue of the patients, if it's their turn the nurses will ask information such as name, age, and other health related information, this is for the patient registration form. After the registration the consultation will begin, during the consultation, the specialized doctor will discuss the patient's medical history, symptoms, and concerns, if the clinic cannot handle the case, a referral will be made. Depending on the consultation, the doctor will do a medical exam if it is necessary. This could include blood tests, x-rays, or other diagnostic procedures. After gathering the information, the doctor will prescribe medication or other

treatment options. After the treatment plan is completed, the patient will be directed to billing to settle the outstanding fees for the service.

Statement of the Problem

Holistic Choice and Multispecialty Clinic does not have a clinic management system. The clinic currently relies on manual methods to record patient's history, track the appointment schedule for the patients and the work schedule of the doctors. The traditional or manual method in the clinic requires the nurses to fill the registration form of the possible patients manually and the registration form is usually kept in a folder rack along with the existing files in the clinic. This causes problems for the employees of the clinic because it takes longer time to retrieve the information, also this method may cause human errors that could potentially affect the patient's health.

Furthermore, the clinic uses facebook to announce the schedule of the specialized doctors, they also use messenger to accommodate the patient's appointment. The clinic does not have a specialized system, the admin of the clinic page is the one who monitors and posts details in the facebook's account of the clinic, this is a problem for the patients since there could be instances of a last-minute changes in the schedule of the doctors, resulting in inconsistencies in the schedule of the clinic.

As the complexity in healthcare services increases, doctors in the clinic find it difficult to manually exchange patient information from one file to another and from one doctor to another. Hence, some of the major problems include lack of immediate information storage, and retrieval, poor preparation of accurate and up-to-date reports, lack of prompt updates, and error prone manual calculations.

Therefore, the clinic needs to adopt a more efficient and effective system for the clinic management of Holistic Choice Multispecialty Clinic.

Main Objective

The main objective of the study is to develop a system that efficiently manage the appointment schedule of the patients, schedule of the nurse, doctors, and surgeons, easily access and search the records and history of the patients and provide sms notifications for the doctors and patients of Holistic Choice Multispecialty and Diagnostic Clinic in Timbao, Binan, Laguna.

Specific Objectives

Specifically, it aims to:

1. design a system that has the following modules:
 - a. Appointment Module
 - b. Doctor Scheduling Module
 - c. Billing Module
 - d. Records Module
 - e. Inventory Module
 - f. Admin Module
2. develop the system using the following:
 - a. PHP Hypertext Processor for the programming language
 - b. Hypertext Markup Language for structuring the website
 - c. Java Script for making interactive features
 - d. Cascading Stylesheet for the stylesheet
 - e. Tailwind CSS for the CSS framework
 - f. Daisy UI for Tailwind CSS library for making the development more faster
 - g. MySQL (Structures Query Language) for the database
3. test the system in terms of unit, integration, and system testing;

4. evaluate the system using the adopted International Organization for Standardization 25010 evaluation instrument; and
5. prepare an implementation plan.

PRE-APPROVED:

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Date

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Technical Critic

Date

REMARK:

 Existing
Not Existing

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Date