# **CHAPTER 1**

# **INTRODUCTION**

Automated Inventory Management System for Medical Clinics is a digital tool that makes processes more manageable to allow health facilities perform well on stock management. Proper management and allocation of resources are essential for the health and longevity of communities. Hinigaran Medical Clinic combines advanced technology with compassionate care. The Current situation is numerous medical clinics still use outdated systems. Paper-based processes and manual data entry frequently leads to inefficiencies, errors, and delays in patient care.

The most common problem of Hinigaran Medical Clinic is limited patient engagement. The lack of modern communication methods and self-service options have result in reduced patient engagement and satisfaction, ultimately affecting the overall quality of care at the clinic.

The best solution to the problem at the Hinigaran Medical Clinic is to improves regulatory compliance and empowers both patients and healthcare providers with modern tools and capabilities. In order by implementing an automated inventory management system, clinics can improve patient care, reduce costs, and enhance the overall operations. This system was developed to help the hospital and their patients themselves to facilitate their procedures when there are many patients who come and to check up.

**Objectives of the Study**

The study aims to implement a Medical clinic's inventory management system, with the ultimate goal of enhancing patient care and operational effectiveness.

**General Objectives:**

The study aims to design and develop the Hinigaran Medical Clinic.

**Specific Objectives:**

1. The specific Objectives of this study is to achieve the following features:

A. Inventory for Medicine

B. POS for transaction

C. Generate and Print Report

D. Descriptive Graph

2. Evaluate the system Usefulness using PSSUQ for End User

3. Evaluate the system Quality using ISO25010 for the Experts.

**Scope And Limitations of the Study**

A study and development of the Hinigaran Medical Clinic, that is primarily for urban and semi-urban areas, will be the main focus of this study. This study only fucoses in Hinigaran Medical Clinic were located along Burgos Street, Barangay III Poblacion. In order to help the patient, nurses and the doctors in the hospital. It also to make it easy for them to facilitate the processing of the patients' needs when they come to the hospital for the check-up. In the way of making a system so that they don't have to do it manually they will directly encode in the system.