CHAPTER ONE: **INTRODUCTION**

## Introduction to the project

The progressive and recent success in technology have played a major role in evolving the Health sectors, as most medical practitioners are now key into the idea of computational practices over conventional processes, Also Pharmaceutical practices have evolved over time from its conventional practices to using computational methods in all aspects of pharmaceutical process. which include: dispensing of drugs, consultation, drug regulation, and the sale of these drugs. The birth of modern pharmacy has brought with it some positive effects in the society as pharmaceutical practices have grown beyond conventional buying and selling of drugs over time, to more robust activities which include inventory of stocks, transaction tracking, door to door services and the general implementation of medical orders which entails the evaluation and the interpretation of the medical orders, the administration of drugs, dispensation of prescribed drugs from qualified medical practitioners, the review of prescribed drug regimen, invention of methods and devices to accurately dispense drugs and the correct storage of drugs.

The modern pharmacy is an extension of the service available to patients by medical providers, such as general practitioners (GPs) and hospitals. It is the main distribution channel for pharmaceutical products and thus plays an important role in the health care system of a country, most of times patients may feel lethargic to visit the medical shop at the time of medicines needed. This leads to improper body conditions that makes them suffer lot which may cause late recovery from the disease/illness. So, it is necessary to take proper medicines in proper quantity at proper time. In nearly all cases these medicines are available to the patient via a pharmacy. Although very little has changed with regards to the distribution of medicine, Pharmacies are now seeking to improve their competitive advantage by developing their direct relationship with the end patient using enhanced product service delivery via efficient and effective supply chain management by providing a platform for patients to have easy access to professional consultants and in buying medicine.

The proposed system aims to automate pharmaceutical practices and serve as an intermediary between pharmacies and general public, through a platform that allows the order of drugs with the click of a button, and simultaneously keeps track of what drugs have been ordered and in what quantity (inventory), provide online platform for buying of medicine and also create avenue for a one-on-one interaction between pharmacist and the general public.

* 1. Background of the study

Access to medication has been a topic of discuss over the years, many solutions has been proffered in the past to provide easy access to medication and professional consultation from pharmacist for users at any time of needs. The challenges for users to access pharmaceutical stores has been discuss to be among the main causes of lack of access to medications by users. Most times, people can only access the medicine available in the pharmaceutical stores withing their vicinities which at most times have little or no provision to quality medicines and as well a collection of variant medication for different illness.

Also, the lack of access to professional pharmacist for consultation is one of the major causes of recent rapid growth in self medication among people, in the quest for treatment and desire to quickly recover from any sickness people listen and accept advice from other people who are neither a professional in the field of medicine nor a train pharmaceutical practitioner. This people offer this advice base on their experience from medicine they’ve used in the past which possibly must have help them to recover from their sickness.

The proposed pharmaceutical management system will provide a real time platform for general public or registered users to seek for professional counselling from professional pharmacist where they can discuss their health concerns on a one-on-one interaction and at the end get a drug prescription of which they can then proceed to search and order from the online stores. the users can also choose the drugs be delivered to their homes or anywhere suggested. The system will provide a platform for user’s education on medical health from reading articles written by professional pharmacist on the platform. The system will also provide inventory functionalities for the pharmaceutical stores. The system will also provide platform to register new users and pharmacist and another platform for administrative users to manage every type of users that uses the system.

## 1.3 Statement of the problem

The existing system is face with several challenges which includes:

* Lack of real-time access to professional pharmacist for consultation.
* Lack of access to any type of medicine at anytime and anywhere.
* Lack of delivery of medicine from anywhere to patient in any places.
* The current manual process is not User-Friendly and ease of use.

## 1.4 Aims of the study

The aim of the project is to development a web base application that provide users with functionalities to order and pay for medicine online or after delivery to their home or any places of their choices and to also provides access to professional pharmacist for consultation.

At the end we aim to provide a well-tested and fully functional system that handles all pharmaceutical process from consultation services to buying and selling of medicines and taking inventories.

## Objectives of the study

* To create online web base system that fully automate pharmaceutical practices
* To provide a system that can present efficient information about medicine.
* To provide a system for buying medicine online.
* To develop a system that provide a platform for public users to interact with professional pharmacist at anywhere and anytime.
* To create an inventory platform for pharmaceutical stores.
* To create a platform for professional pharmacist to write and publish health related articles
* To reduce effort and frustration face by people in buying medicine and getting consultation from professional pharmacist.

1.6 Scope of the study

This project is developed to provide a functional web application to manage and handle a pharmaceutical process and to improve the quality of services offered by pharmaceutical stores.

* 1. Significance of the study

The system will address many of the pitfalls in a conventional way of running pharmaceutical business, which include:

1. The bottleneck in buying and selling of drugs

2. Lack of access to medical health education.

3. Abuse of drug.

4. Lack of proper professional medical prescription.

5. Self-treatment and medication.

6. Lack of transaction history and stock inventory for pharmaceutical stores.

7. Lack of adequate and accurate medication or treatment history of individuals.