# Pharmacy Management System

## Bhavesh Sharma, Harsh Dubela, Amit Bohra

Department of Computer Science, Global Institute of Technology, Jaipur, India

*Abstract— A dispensary is a place, a career, and in some cases, a company's business. A dispensary is a place, where the licensed pharmacists of medicines, based on a prescription issued by a legitimate doctor. A pharmacy is a pharmacy. Some of the companies do not have pharmacies, but they will sell medicines bought without a prescription. In a pharmacy, it can be a stand-alone building, or it can be to be found in other locations as well, such as a pharmacy, a medical office or a hospital. Pharmacists are registered with the Pharmaceutical Council and have been designated as registered pharmacists. However, this is a title that is only awarded after the passing of a truly national and practical and legal studies. Pharmacists must always be vigilant against fake prescriptions ordered due to the addicts who are trying to illegally obtain drugs and other controlled substances. The pharmacy also means that it is in the practice of pharmacy as a profession. Pharmacy has a rich appeal. With the availability of computers and the development of the advances in information technology have led to the fact that we have the ability to quickly and efficiently, to receive or collect to analyze, transfer, and storage of large amounts of information related to patient care.*

*Keywords— Pharmacy Management System, dispensary, tkinter.*

## I. INTRODUCTION

The main objective of the project is to manage the administration of the pharmaceutical store and the database. This project is an analysis of the development and implementation of a pharmacy management system. This is done by creating a database of the available medicines in the shop. The primary purpose of the pharmacy management system is to increase the accuracy and improve the safety and efficiency of the pharmacy store. The goal of this project is to develop software for the effective management of the store. We have software developed in order to provide effective policing through the provision of statistics in drug stores. The database will be attached to the application, the relations, Visual Basic, and you have already created the database. Pharmacy management system is useful for the maintenance of a database, allowing you to update the medication in stock. This is a pharmacy management system, and is used for the management of the majority of pharmacy - related services to the pharmacy.

Pharmacy management system is a management system that has been developed with the aim to increase the accuracy and improve the safety and effectiveness of a pharmacy-shop. With this program, you can make use of pharmaceutical stores in a database for the conduct of the study. It has been one of the IT-systems, which assists the pharmacist in improving the management of the assets, of the costs, insurance, security, etc.). The software that is being used, you can generate reports as per the requirements of the user. This pharmacy management system, the user can get a report within a specified period of time. The system allows the user to enter the date of the release and the expiration date to a given product or drug when the inventory is open, and the purchase and sale transaction. With the software, you can print invoices, bills, receipts, etc., etc. It can also keep a record of the deliveries from the supplier in writing. The system will generate a report that contains a list of products which are cancelled after this date and before the product is finally out. The system and goals are determined on the basis of a dialogue with the user. It is also expected to be the receipt of a new batch of the drugs and during the ride the medicine to the pharmacy for a period of time. Pharmacy management system is built. The pharmacy management system is to provide a reliable, integrated, and technology. each month, the pharmacist will be able to create a report

on the movement of the drug and pharmacies, to receive information about the drug, such as the expiration date, date of purchase, to the number of different types of drugs and the location of the drugs in the pharmacy. The pharmacy management system, supporting medications, and supplies at the pharmacy division.

## II.        OBJECTIVE

This is a very useful application for the pharmacist, which reduces the work load and it will help you to manage all of the components of the pharmacy, such as Drug Administration, Invoicing, etc., etc. that is, the increase in the efficiency of processing. This will increase the clinical efficiency and patient convenience, in view of the fact that Ethiopia is in the direction of the pharmaceutical care of the patient. It automates tasks, and account management. In a pharmacy, and the bill inspection is an essential process. In addition, the pharmacy management system that you can easily serve as the requirements for the products. This includes the safe and secure storage of the medicinal product details, as well as a quick search, removal, and updating of products. The pharmacy management system is developed in order to ensure effective and clear the data storage and manipulation, and precision, with, Instagram, products, and medical products. The pharmacy management system is a easy-to-use, so that the user can run a pharmacy without ambiguity. This is the project subject to a pharmacy management system with a high degree of minimisation of time and resources, and with the help of that by looking at the drug information, you can use the data in the shortest

amount of time possible. The main objectives of the ICP are the automation of pharmacy organisations in the creation of a good quality by minimizing or eliminating the time of the loss, and the removal of substances such as paper to add data to it, I know that there have been paper-based, to reduce lack of health care by providing relevant information.

## III.        TECHNOLOGIES

**Python** is a high-level programming language. Python is very easy to learn and code python as compared to other languages like C,  Java, etc. And anybody can learn python basics in a few hours or days. It is also a user and developer-friendly language. One of the main features of python is Object-Oriented programming. Python supports object-oriented programming and its concepts of classes, objects encapsulation, etc. Graphical User interfaces can be made using a module such as tkinter which is easy to implement

**Sqlite** Transactions are atomic, consistent, isolated, and the resistance (ACID) even after system crash and power failure.

zero-configuration - no configuration, and management is required., SQL implementation with advanced features like partial indexes as well as expression indexes, JSON, common table expressions and window functions. (Lighting function).The complete database is stored in a cross-platform disk file. Ideal for use as an application file format.

## IV.        PROJECT WORK SAMPLE



*Fig. Login Page*

*Fig. Main Menu*

Main Menu contains some functionality one can perform as shown in the fig.

## V.  SCOPE AND FUTURE DEVELOPMENT

Pharmacy management system is a management system that has been developed to improve the accuracy and increase the safety and efficiency of the pharmacy store. It has been one of the IT-systems, which helps pharmacists improve the supply, cost, health, safety, security, etc., etc. the management of the inventory and the sales activities, so as the user, so that the production dates, and due dates to individual products, or medications. The product displays a list of the dates after a specific period of time prior to the expiry date of the product. It will also include the launch of a new batch of drugs for a certain period of time and at the entrance to the pharmacy to get to the merchant. Each month's apothecary reports on the promotion of medicinal products, to receive information about the products. Expiration date is the date of retail purchase, with the remaining amount of drug in the place of the drug in the pharmacy. Now We are ready with 80% of all of the options available. We have 4 different types of advertising, such as Customer, Pharmaceutical industry, Pharmacy, Shops, and etc. We have a complete order system, a billing system, a system for the registration of orders in the system for your business, and pharmacy stores. An order is a system for the customers, pharmacies, shops, etc.

But there are still some jobs left which we will do in the future. Some works like -

1. Appointment to the doctor system.

2. Pharmacy ranking system.

3. Pharmacy safety system.

## VI.  CONCLUSION

To improve the safety and efficiency of the pharmacy, retail store, to foster the improvement of the pharmacy management system. In this case, we have a project that is on a computer, based on the type of the system. This will help you to improve the administration of a medicine's cost, insurance, security, etc.). Pharmacy management system has been created in order to ensure the reliability of the customers. They are to be able to make the sale of the right to medicines, together with access to them, which will reduce the amount of these criminal activities. Pharmacy management system is basically an internet-based software and processes the required data and shops, as well as information regarding the pharmacy database management.The software helps you to manage your shop online or in-store efficiency. Statistics drugs, medicines, or medicines to control the data that may be updated and edited as well. It works the needs of the user, and the corresponding options. It is up to the user to perform the production,and

if the expiry date of the medicinal product is out of stock, and the purchase and sale transaction. This software also it has the ability to print reports and receipts, etc., etc. There are many other features available to you. The most important goal of it is to be maintained, and the management of the pharmacy data efficiently and easily.

## REFERENCES

[1]  Docs.python.org. 2021. *tkinter — Python interface to Tcl/Tk — Python 3.9.5 documentation*. [online] Available

at: <https://docs.python.org/3/library/tkinter.html#tkinter-modules> [Accessed 15 May 2021].

[2] Sqlite.org. 2021. *Distinctive Features Of SQLite*. [online] Available at: <https://www.sqlite.org/different.html> [Accessed 20 May 2021].

[3] Sqlite.org. 2021. *SQLite Documentation*. [online] Available at: <https://www.sqlite.org/docs.html> [Accessed 17 May 2021].

[4] Sqlite.org. 2021. *About SQLite*. [online] Available at: <https://www.sqlite.org/about.html> [Accessed 22 May 2021].

[5] Docs.python.org. 2021. *Graphical User Interfaces with Tk — Python 3.9.5 documentation*. [online] Available at: <https://docs.python.org/3/library/tk.html> [Accessed 25 May 2021].

[6] Docs.python.org. 2021. *About these documents — Python 3.8.1 documentation*. [online] Available at: <https://docs.python.org/release/3.8.1/about.html> [Accessed 23 May 2021].