

Pharmacy Management System

Prof. K. A. Deshmane, Assistant Professor, *Shree Siddheshwar Women's College of Engineering, Solapur.*

Madhuri. S. Sonawane, *Department of Computer Science and Engineering, Shree Siddheshwar Women's College of Engineering, Solapur.*

Rakshita. S. Chormale, *Department of Computer Science and Engineering, Shree Siddheshwar Women's College of Engineering, Solapur.*

Pallavi. M. Sawale, *Department of Computer Science and Engineering, Shree Siddheshwar Women's College of Engineering, Solapur.*

Falguni. S. Gaikwad, *Department of Computer Science and Engineering, Shree Siddheshwar Women's College of Engineering, Solapur.*

Abstract— Pharmacy management System consists of PHP, JavaScript, Bootstrap, and CSS. Talking about the project, it contains an admin side and other staff's section. All the management are done from the admin side like adding staffs to deleting their records. This project has only a single agenda, that is, to allow the shop owner to maintain his business efficiently. Here you have to sign up in order to perform the CRUD operations. When you sign up then you can view the admin dashboard. From there you can manage your all the necessary activities. Pharmacy Management System can lead to error free, secure, reliable and fast management system. Thus, it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information.

Index Terms— *Inventory Management, Drug Stock Control, Billing and Invoicing, Supplier Management.*

I.INTROUDUCTION

A **Pharmacy Management System (PMS)** is an integrated software solution designed to streamline and optimize the operations within a pharmacy. The primary objective of PMS is to improve efficiency, accuracy, and productivity by automating various critical processes. These include inventory control, prescription management, billing, and financial reporting. By consolidating multiple pharmacy functions into a unified platform, PMS ensures a smoother workflow, reduces human errors, and

enables pharmacies to deliver better services to their customers. In addition, PMS helps pharmacies stay compliant with regulatory requirements and provides valuable insights for decision-making through detailed analytics and reporting. The increasing demand for efficient healthcare services and the complexity of pharmaceutical operations have made PMS indispensable. It not only enhances operational efficiency but also plays a key role in ensuring that pharmacies can adapt to changing regulatory landscapes, market demands, and customer needs.

II. LITERATURE SURVEY

The pharmacy management system kept paper and pen away mostly cause of the way it's Managing a very huge pharmacy with records stored online and on papers which surely seems difficult to keep track of inventories with dignity but this system makes it look easier. The drugs in the pharmacy store, expiry date, quantity of drugs available are fixed on the categories and their functions. A pharmacist has to order drugs to replenish the already diminishing stock. In addition, the ordering of drugs is being carried out manually. A major amount of time is taken for writing the order as the pharmacist needs to check through the stock balance and make an estimate of the amount to order based on Figures. As we know drugs are not supposed to be used after they have expired. This project work will notify the pharmacist about drugs that are near to expire, preventing those drugs from being sold and also providing a solution to the earliest problems.

III. OBJECTIVES

The **Pharmacy Management System (PMS)** is designed with the following key objectives, focused on centralized management by the system administrator:

Centralized Management of Pharmacy Operations:

The system allows the admin to control and manage all critical pharmacy operations from a centralized dashboard. This includes overseeing customers, medicines, suppliers, sales, and purchases, ensuring smooth coordination and optimal workflow.

Customer Management:

To enable the admin to efficiently **add, edit, and delete customer records**. This feature ensures that the admin has complete control over customer information, helping them manage customer profiles and interactions effectively.

Medicine Inventory Management:

To provide the admin with tools to view, add, edit, and delete medicines in the pharmacy's inventory. This feature ensures that the admin can maintain accurate

stock levels, update product details, and manage the medicines being sold in the pharmacy.

Supplier Management:

To allow the admin to manage supplier records by adding new suppliers, editing existing supplier information, and deleting records. This enables the admin to track supplier details and ensure timely procurement of medications and products.

Sales Management:

The system facilitates the management of sales by enabling the admin to add, edit, and delete sales records. This helps the pharmacy owner track revenue generation, manage sales transactions, and maintain accurate financial records.

Purchase Management:

To allow the admin to manage purchase records, including the ability to add, edit, and delete purchase transactions. This helps ensure that the pharmacy maintains accurate inventory records and manages procurement efficiently.

Secure Data Access:

Since only the admin has access to the data, this ensures that customer information, sales data, and other sensitive business details are protected from unauthorized access. The system is designed to prevent any unauthorized users from performing administrative tasks, thereby enhancing the confidentiality and security of business data.

IV. PROBLEM STATEMENT

One of the most important responsibilities of Medical Shop management is to supervise and manage the pharmacy employees in order to ensure healthy working relationships and outcomes. Each of these functions is critical to the pharmacy's operation and should be explained by the management. However, most pharmacies faced problems such as insufficient service promotions, lack of coherence of pharmacy services in hospitals, poor drug information systems and the inconsistency of the pharmacy information management due to its manual processes. Now these

are the problems that must be solved with this Pharmacy Management System Project Proposal.

V. SYSTEM DIAGRAMS

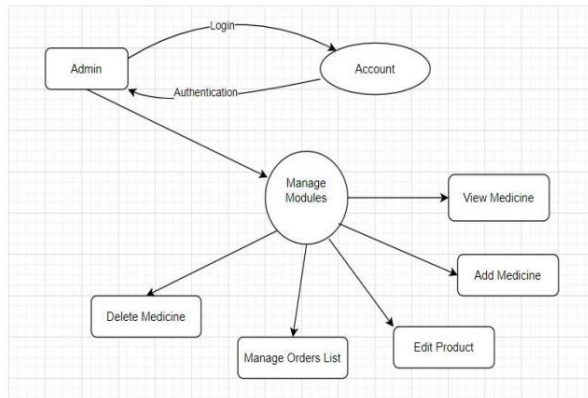


Fig. Flow Diagram for Admin

The objective of the flow diagram for the admin is to outline the process and functionalities available to the admin user within the system. The diagram illustrates that the admin must first log in to access various management modules. Once logged in, the admin can perform several tasks, including viewing medicine, adding new medicine, editing existing products, managing the order list, and deleting medicine as needed. This structured approach ensures that the admin can efficiently oversee and maintain the inventory and order management system.

VI. ACKNOWLEDGEMENT

It plunges us in exhilaration taking privilege in expressing our heartfelt gratitude to all those who helped, encouraged and foreseeing successful completion of our project. Ecstasies to work under gregarious guidance of Prof. K. A. Deshmane to whom we are extremely indebted for his valuable and timely suggestions. We wish to convey our sincere thanks to Prof. S. M. Gungewale Head of the Dept. of Computer Science & Engineering, for her support. We are also thankful to Dr. T. A. Chavan, Principal, Shree Siddheshwar Women's College of Engineering, Solapur for making requisite facilities available to us.

We would like to give our thanks to all teaching and non-teaching staff members for their keen interest and excellent support. We would also like to thanks to all those who had directly or indirectly contributed their assistance in finishing out this project successfully. Finally, we wish to thank our parents and friends for being supportive to us, without whom this project could not have seen light of the day.

VII. CONCLUSION

The Pharmacy Management System we created is a powerful tool that enhances pharmacy operations, improves data security, and provides a reliable framework for managing both business and customer data. By centralizing key functions under admin control, it enables better oversight, accountability, and operational transparency, ensuring a more efficient and customer-friendly pharmacy environment.

Future Scope:

Mobile Application Integration:

Developing a mobile application for both customers and pharmacy staff would enhance user experience. Customers can access their prescription history, order medications online, and schedule deliveries, while pharmacy staff can update inventories, manage sales, and track customer interactions on-the-go.

AI-Powered Prescription Verification:

Implementing Artificial Intelligence (AI) to verify prescriptions in real-time could help identify potential issues such as incorrect dosages, drug interactions, or expired prescriptions, improving the accuracy of prescriptions filled and enhancing patient safety.

Automated Inventory Management with IoT:

Integrating the system with Internet of Things (IoT) technology can automate inventory management. Sensors and RFID technology can track medicine stock levels, expiry dates, and even environmental conditions, ensuring medicines are stored correctly and automatically notifying when restocking is necessary.

Cloud-Based Solution:

Transitioning to a fully cloud-based system could enhance scalability, flexibility, and accessibility. Cloud storage would allow for remote access, real-time updates, and easy collaboration across multiple pharmacy locations.

VIII. REFERENCES

[1] Pharmacy Management System, STATE UNIVERSITY OF ZANZIBAR SCHOOL OF BUSINESS, SUDI AHMAD SIJALI, PROJECT REPORT SUPERVISOR: Dr. KHAMIS ABDUL-LATIF KHAMIS

[2] PHARMACY MANAGEMENT SYSTEM by IBITOYE AHMAD ADWEWALE, University of Abuja

[3] Pharmacy Management System Project, Vivek Sahay

[4] Barbara Griggs. Green Pharmacy: The History and Evolution of Western Herbal Medicine, Second Edition. Viking press

[5] Charles E. Rosenberg, Morris J. Vogel. The Therapeutic Revolution: Essays in the social history of American Medicine, Second Edition. University of Pennsylvania press

[6] Peter G Homan, Briony Hudson, Raymond C Row. Popular Medicines: An illustrated Leslie G. Mathews. History of Pharmacy in Britain. Edinburgh, E&S. Livingstone

[7] Pharmacy management system Requirement Analysis and Elicitation Document

[8] Drug store management documentation

[9] Pharmacy database management system in vb