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Inventory Maintenance For Pharmacy Using Flutter

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Abstract: The project aims to provide the facility to manage the stock of medicines. It is designed for all the items that come inside the pharmacy. Management is the most important aspect of a pharmacy today, so this project demonstrates the design and implementation of that pharmacy. It makes it easy to manage the stocks and also provides sophistication to the user. It enriched the management of the pharmaceutical sector in India because, in our country, pharmaceutical management is a very essential thing to do for the safety of patients through pharmacy. The pharmaceutical supply system, for example, incorporates order placement, receiving, and storing of pharmaceutical products through inventory management software that is accessible on smartphones. The entire pharmacy data is analyzed, including medicine, pharmaceutical instruments, and inventory management software manages them. We need to consider a useful method to effectively manage your medical store by using an inventory system. A properly managed pharmacy can bring significant benefits to your business. Proper drug storage is crucial for ensuring you are always aware of your stock, which will help prevent any shortages. As a result, you can ensure that your pharmaceutical business is efficient and profitable in the long term.

INTRODUCTION

The main goal is to overcome the traditional technique of maintaining inventory details which is very difficult to handle. Management of inventories is very crucial for the sustainable growth of any organization. That's why this project sets out to provide an efficient inventory system to handle all the details. Disregarding the necessity of inventory in any organization can lead to its shutting down, especially if the variables of productivity are poorly managed in progression to meet customers' needs or desires. By having adequate inventory available when needed and by maintaining the condition of stock items, companies can meet customer demands in terms of quality and quantity.

Controlling the flow of inventory. This is a process of overseeing, managing, understanding, and understanding the flow of inventory goods and units used by a company in the production of goods and units for sale or distribution.

Although inventories over decades have moved from manual systems to automated systems, the efficiency and effectiveness of the system in cases where more than one store exit cannot be guaranteed, therefore there is a need to provide coordination and monitoring of all these stores in an intelligent manner that will increase productivity.

The focus of this paper is to develop an inventory management system for pharmacies to manage the stocks of local stores, this is implemented in a mobile-based application environment.

Manual entries are made into the Pharmacy's register when the new drugs or batches of drugs arrive. Drugs are again recorded in the register once they have been administered to patients.

Smaller organizations with limited space can send goods directly to the storage area instead of the receiving area. When a small organization has limited space, the goods may go straight to the stock area instead of a receiving location. In the production equipment, the goods from the storage location are converted into finished products. After the finished product has been shipped, it can be returned to storage or shipped directly to the customer before shipping to the customer. As the goods progress through the process, the inventory management system tracks the lot number, serial number, cost, quantity, and when the goods pass through each phase.

PROBLEM

Generally, the companies have their inventory system but the local stores don't have one and they have to go through a lot of paperwork. As a time-consuming task, placing the proper materials and quantities with precise measures requires a high degree of accuracy. Moreover, the project scalability itself will increase the risk so is the processing time hence can make us lose control when there is a lot of revision, like drop and insert, that is being made. Since this is the first time we

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create this kind of system, there are so many requirements that might not be defined properly. Currently, drug stock checks and transaction recording are done manually.

METHODOLOGY

The health of the common people is directly affected by "Inventory Management For Pharmacy". Another important characteristic in the “Inventory Management For Pharmacy” is the user’s module. It restricts access across different user groups. The purpose behind implementing this module is that features can be reserved for users and no effort management. The authentication can be used in different conditions. In the case of the admin user, the user can manage the list of medicines, monitor stocks, and other tasks.

Furthermore, in the case of admin authentication users, the user should manage all processes, right from checking the stocks of medicines to manipulating the medicine stocks and medical lists. Alternatively, this allows users to monitor activities and create accounts by utilizing the software.

The method which is used to create this system is descriptive so that users can understand the application without understanding its backgrounds like programming and technology. It also maintains several things at a time.

SCOPE OF THE PROJECT

An inventory system may be able to serve many purposes in the future, including measuring the value of products. invention with the control and wisdom of spending your resources wisely. To be more prepared, you should be aware of sales attributes such as size, color, material, scent, and other aspects.

- It consists of the feature which can disable the unused features and are not necessary to the users.
- It satisfies the user requirements.
- Simple enough for users and operators to understand.
- This application is more effective for data management, the data will be more secure and also can be accessed more easily than other systems.
- It should be easy to operate.
- Have a good user interface.
- It should be expandable.
- Enhanced productivity and efficiency.
- An integrated approach to quality management.
- Managing inventory is easy.

PROJECT ANALYSIS

- Web-Based Online Inventory Information System is too complex for us to comprehend the logical and networking design of the system. Furthermore, we are not able to perform a search as there is no concept of applying filters in the system by ES Soegoto1 - Departemen Manajemen, AF Palalungan.
- When using an online inventory management system, there is no alert feature for getting notified when an item is out of stock by Rafat Ara, Md. Abdur Rahim Lecturer- Department of Computer Science & Engineering.
- Evaluation of pharmacy inventory management should take into account the following factors: There are four factors affecting inventory shrinkage: product type, return policies, unclaimed prescriptions, and use of formularies.
- 5% or more of community pharmacy sales are lost to inventory shrinkage, also known as robbery, shoplifting, and theft. Employee theft is a major cause of the depletion of public pharmacies.
- Mishandling of pharmacy inventory poses a serious threat to patient safety. In determining whether a medication error or other issues are related to drug therapy, pharmacists should consider pharmacy inventory management.

LITERATURE REVIEW

Inventories Management by Punam Khobragade, Roshni Selokar, Rina Maraskolhe, and Prof. Manjusha Talmale

Applied technology: Inventory Management System is a windows application developed for Windows operating systems that focus on the area of Inventory control and generates the various required reports.

Problems: What are Indus' problems in managing inventories? Which inventory policy is optimum for Indus? Why? What should be the over level?

Inventory management by Anjali Mishra & Harshal Anil Salunkhe

Interviews conducted with company finance executives, an on-site study, and an analysis of the annual report constitute the methodology used in the study. Primary data was collected by Finance executives of the company, while secondary data was gathered from many articles and books.

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While the present inventory management system of the organization is good, it can be improved by adopting some new inventory management systems. The organization should also try to adapt more inventory management techniques like the Just In Time (JIT) inventory system.

Inventory management by Nazar Sohail, Tariq Hussain Sheikh

Supply chain management presents a challenge regarding inventory management. To meet customer demands, companies must have inventory in warehouses, but these inventories incur holding costs that can freeze funds, making them vulnerable to losses.

Inventory management by Rafat Ara, Md. Abdur Rahim

It describes inventory management software that can be used effectively in the printing business to automate the manual activities of the business. This system generates several essential reports automatically.

CONCLUSION

New technology makes it easier and more efficient for us. Users can add authentic information, that is why this system is errorless, so no computer error will occur and hence it will also reduce human error. It resolves the challenges that come under the management of pharmacy in people's view.

Currently, management is one of the most important features of all forms, as it enables us to perform any task in any form. Pharmacy management systems. As a first step, we have incorporated 'Alert Notification' technology in this project that will enable us to detect the expiry date and other information about related medicines using the alert notification reader.

It is clear from this study that an adequate pharmaceutical management system is not yet ready for conception. It requires a study that considers all the interests of various parties, including the government.

As the pharmacy continues on this path of improvement, many challenges lie ahead. When the research assistant is no longer there to assist with data collection, how will the organization find time to do the problem solving and system redesign work? In addition, only a few of the department's employees were involved in the changes. How can they train and onboard a critical mass of employees? A third challenge is that many of the "problems" the pharmacy faces are tied to its relationships with other departments, and often the best solutions are found in changing how other departments perform their work.

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