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Inventory Maintenance For Pharmacy Using Flutter

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Abstract: An Inventory Maintenance System for Pharmacy is any system employed in a pharmacy that helps to automate the pharmacy workflow. Maintenance of inventories is extremely crucial for the sustainable growth of any organization. That's why this project sets bent provide an efficient inventory system to handle all the small print. Disregarding the requirement of inventory in any organization can result in its shutting down, especially if the variables of productivity are poorly managed in progression to fulfill customers' needs or desires. The main goal is to beat the standard technique of maintaining inventory details which is extremely difficult to handle. Inventory Maintenance Processes within the pharmacy are saddled with paperwork and manual checks. Of course, not all of those processes will be automated because of federal laws and therefore the technical limitations of your suppliers, but a Pharmacy Maintenance System is in a position to handle some routine tasks. With the assistance of a pharmacy management system, the pharmacists can get timely notification & alerts from the software, if any of the patients will need the medication soon, or the medication goes to expire.

1 INTRODUCTION

An inventory maintenance system could be a system which will replace a manual system in a corporation (in this project, will specialize in pharmacy) to manage their inventory adjustment and movement record. The aim of the inventory system is to assist users keep track of their inventory. Besides, it can help users manage to create the correct decision in both when to order and the way to take care of the fragile balance between carrying an excessive amount of and deficient stock. Carrying an excessive amount of stock ends up in high inventory operating costs and carrying deficient may cause stock-outs and high order costs. The target of a listing maintenance system is to form inventory decisions that minimize the whole cost of inventory, which is distinctly different from minimizing inventory. It's often costlier to run out of an item than simply to stay more units available. The main objectives of the study is to judge this pharmacy internal control system and are available up with an enhanced internal control system for the clinic's pharmacy for better inventory maintenance and eliminate/reduce risks of errors and fraud. it'll seek to present an enhancement and style the pharmacy could adopt for a more practical and efficient inventory system. This is a process of overseeing, managing, understanding, and understanding the flow of inventory goods and units utilized by a corporation within the production of products and units purchasable or distribution. Although inventories over decades have moved from manual systems to automated systems, the efficiency and effectiveness of the system in cases where over one store exit can't be guaranteed, therefore there's a desire to produce coordination and monitoring of these stores in an intelligent manner which will increase productivity. The main target of this paper is to develop a list maintenance system for pharmacies to manage the stocks of local stores, this is often implemented in a very mobile-based application environment.

2 LITERATURE SURVEY

[1] Inventory maintenance by Nazar Sohail, Tariq Hussain Sheikh :
Inventory Maintenance is a challenging problem area in supply chain management. Therefore, the task of inventory Maintenance is to find the number of inventories that will fulfill the demand, avoiding overstocks.
Problems: What are Indus' problems in managing inventories? Which inventory policy is optimum for Indus? Why? What should be the over level?
[2] Inventory maintenance by Anajali Mishra & Harshal Anil Salunkhe :
The methodology used is unstructured interviews, on-site study, and annual report analysis. The study is based on primary data collected by finance executives of the Company and secondary data which are collected from the books, journals, articles, and annual reports of the company & websites. The existing inventory management system of the organization

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is good but if the inventory management system is to be improved. They should adopt a new inventory management system. The organization should also try to adapt more inventory management techniques like the Just In Time (JIT) inventory system.

[3] Inventory Maintenance System by Punam Khobragade, Roshni Selokar, Rina Maraskolhe, Prof.Manjusha Talmale : It is software that is helpful for the businesses that operate hardware stores, where store owners keep the records of sales and purchases.

Technology Used: Inventory Maintenance 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: Generating backup data is a critical process in a project for our shopkeeper. This work can be categorized as a time-consuming job and needs high accuracy when placing the proper materials with its quantity.

[4] Inventory maintenance by Rafat Ara, Md. Abdur Rahim

This paper aims to describe inventory maintenance system software that is used effectively in the printing business. In this system, the manual activities of the printing businesses are altered into computerized systems. The system originates various essential reports automatically.

Features of this Proposed System :

a) Access facility: Since it is an online-based system, users can access it from any place. Businesspeople can see the overall report at a glance. So he can be conscious about his business.

b) Categories of product: All the products like ink, PVC, vinyl, Pena, inkjet, etc are well categorized.

c) Product purchase: Businesspersons can purchase products to maintain the stock.

d) Total stock: Salespeople can see the total stock according to product category. If stock is about to finish, a notification will be shown.

e) Filtering: The filtering process is much easier to find out about any product.

f) Print: The printing icon will be used for printing out invoices, challan, bill, and any other reports for the clients.

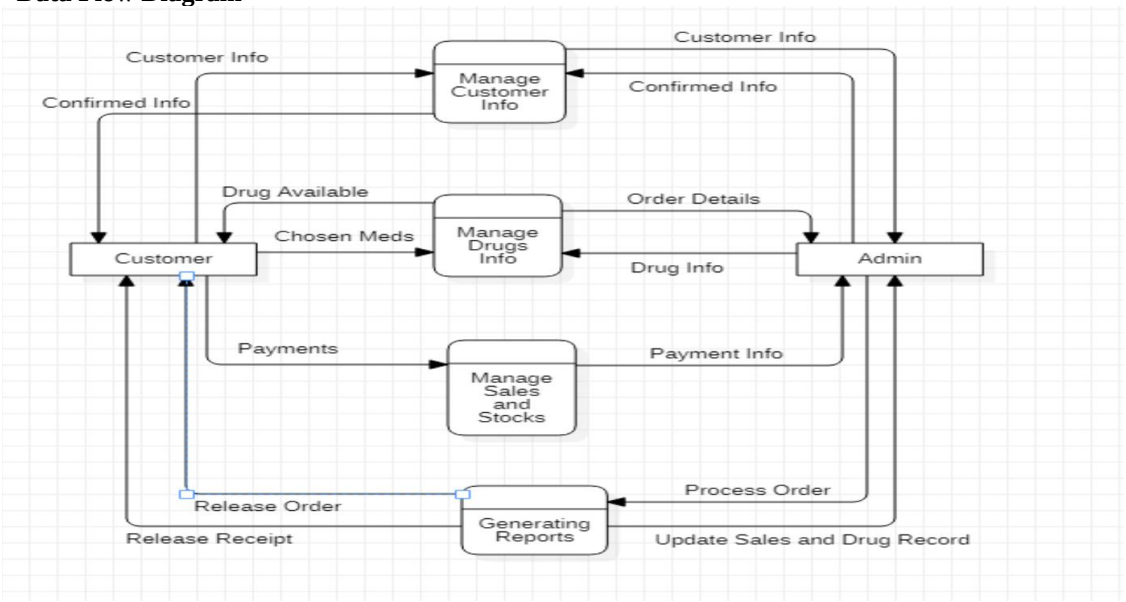
3 PROPOSED METHODOLOGY

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 background like programming and technology. It also maintains several things at a time.

A. Data Flow Diagram



DATA FLOW DIAGRAM Level 1

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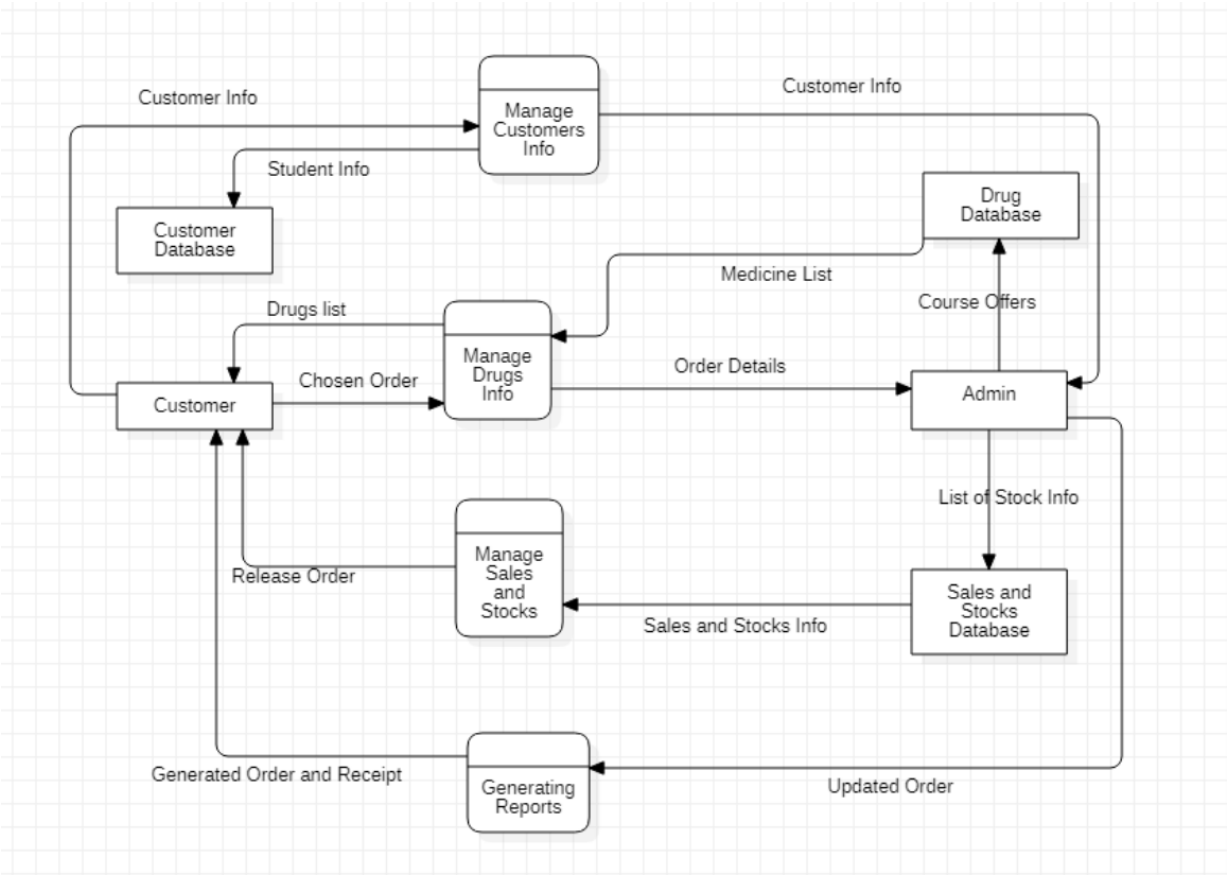
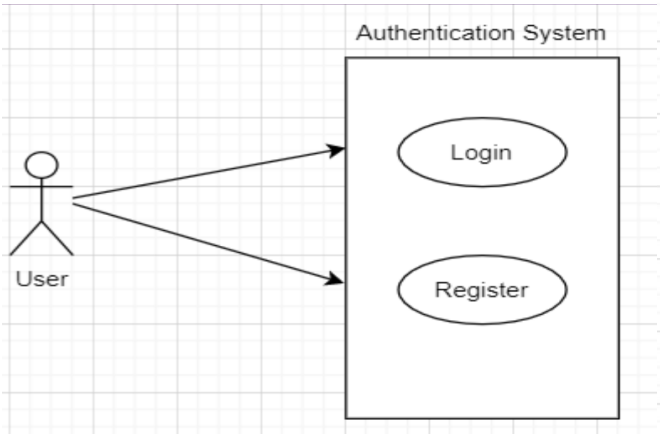


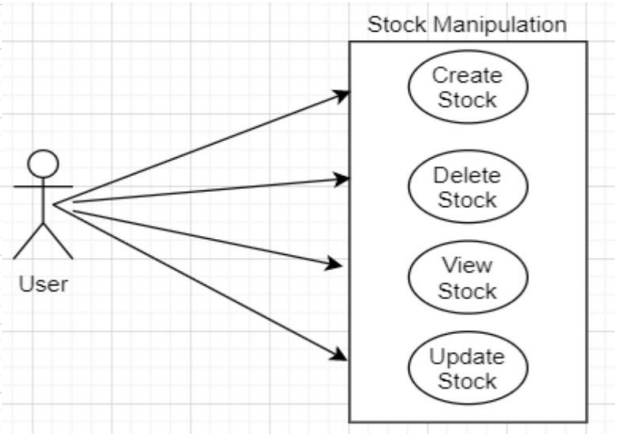
DATA FLOW DIAGRAM Level 2

B. Use Case Diagram



Use Case Diagram of Authentication Module

Use Case for Authentication Module



Use Case for Stock Manipulation Module

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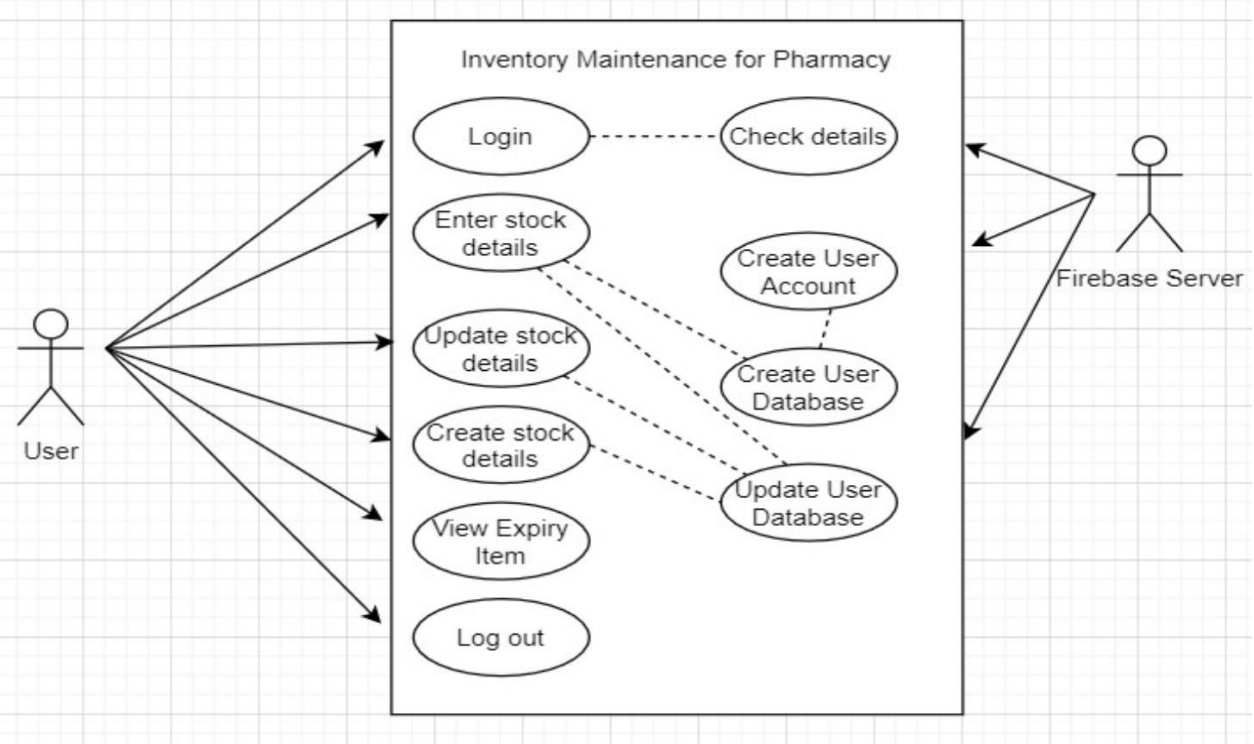
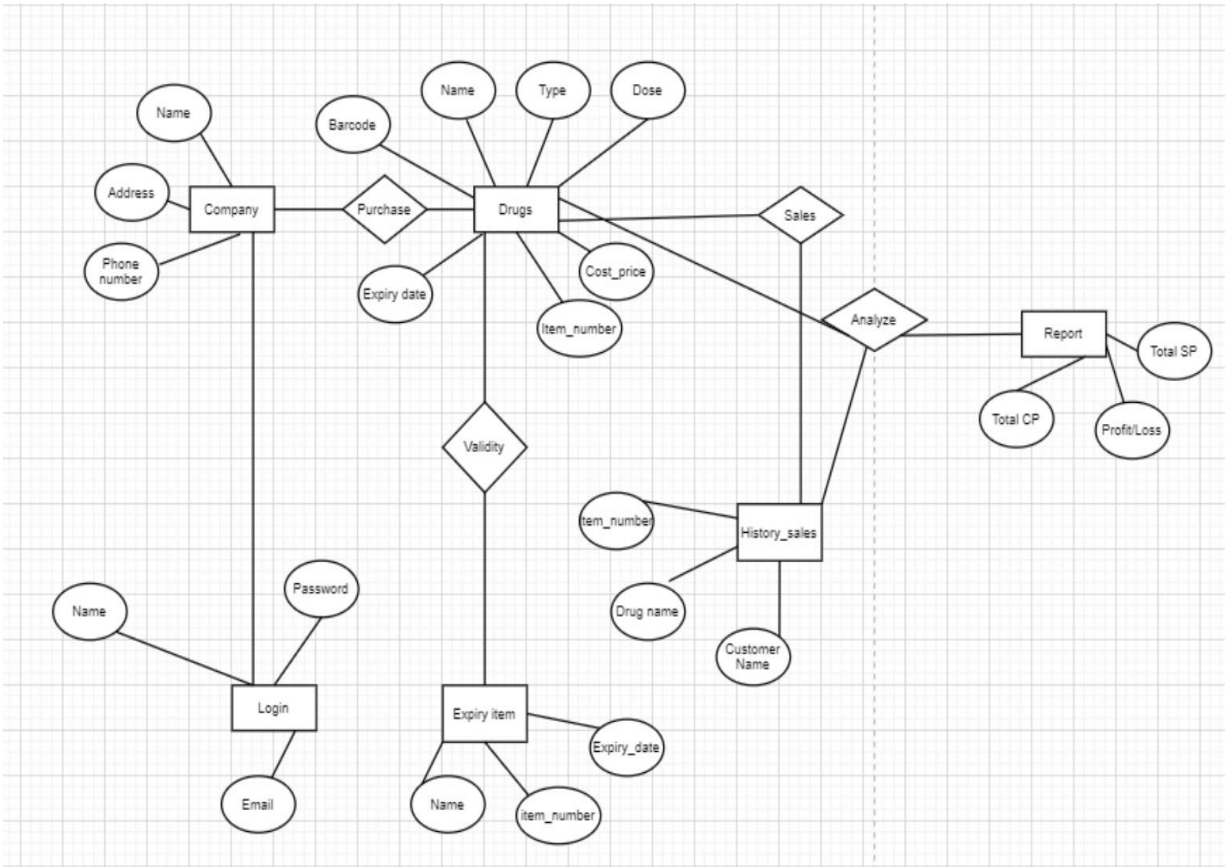


Use Case Diagram of Inventory Maintenance for Pharmacy
A use case diagram for Inventory Management System

C. Class Diagram



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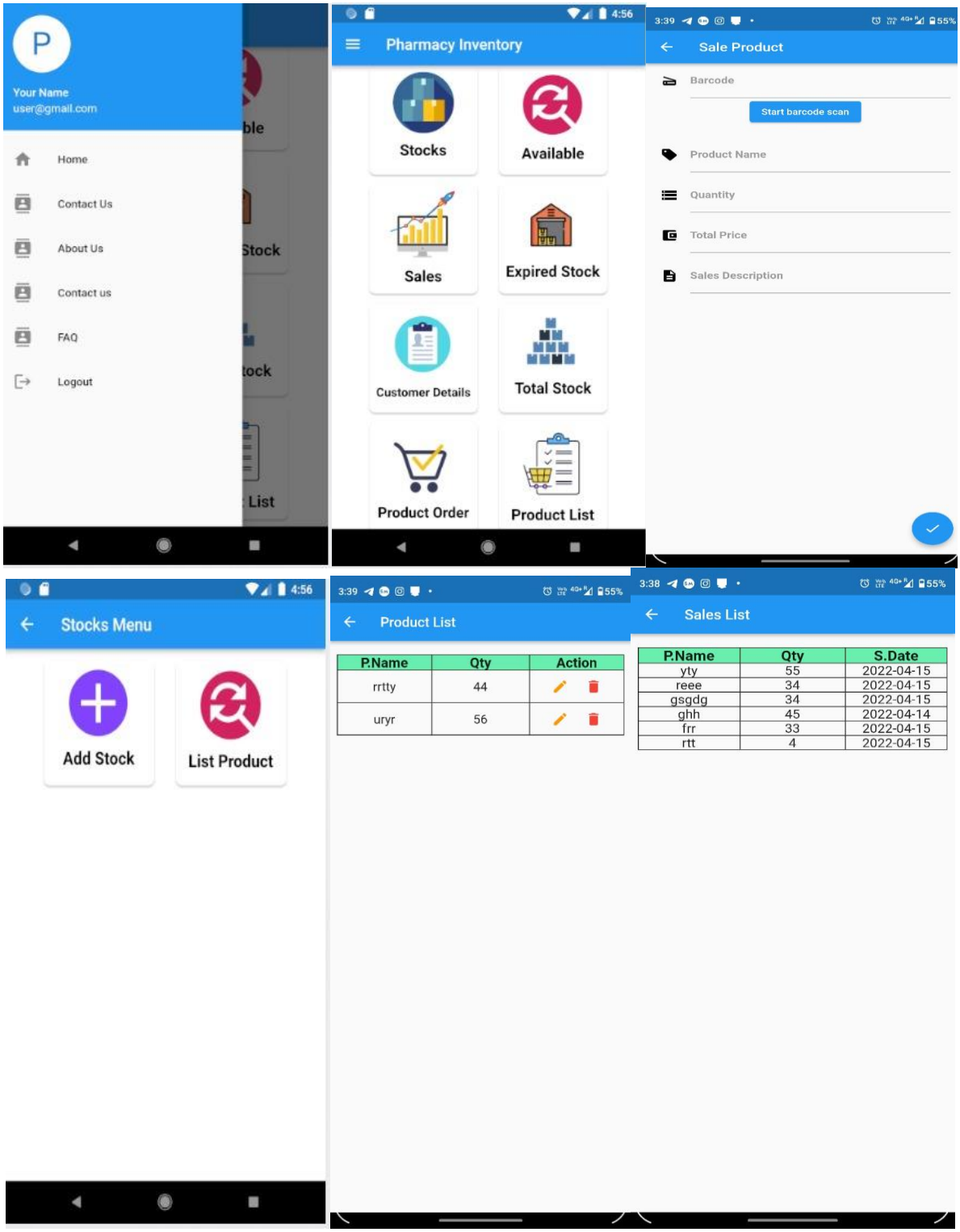
RESULTS AND DISCUSSIONS



CONCLUSION

In this paper, we have proposed an Inventory Maintenance For Pharmacy where the management of stocks has been taken in the digitized way. This system overcomes the problems of manually entering records. Here we are implementing a system where the items taken using barcode or filling manually and it automatically updates in stock. We are also

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designing a system where the available stocks, expired stocks, and managed vendors and customers with full details. 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. Incorporated 'Alert System' technology in this project that will notify us about the expiry date of medicines and low stocks related medicines.

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