

Abstract

Topic: Medical Store and Inventory Management using Blockchain

Project Topic: - Medical Store and Inventory using Block Chain Technology

The Medical Store and Inventory system is a software solution designed to manage the operations of a medical store or pharmacy. It includes modules for admin users, normal users, and customers, each with specific functionalities tailored to their respective roles. The system enables efficient management of inventory, sales, and customer interactions, streamlining the overall workflow of a medical store.

Modules:

User

1.Admin User Module:

The admin user module is designed for administrators or managers who oversee the operations of the medical store. It includes the following features:

- User Management
 - Add/Remove/Update User
- Analytics and Reports
 - Reports verification
 - Pdf generator
- Dashboard for Profit analysis
- Verifying bills and receipts
- Delivery tracking
- Purchase order
 - Notification if medicine is low in stock
 - Order Medicines which are low in stock and out of stock

2.Pharmacist Module:

The pharmacist module is designed for store employees who handle day-to-day operations. It includes the following features:

- Inventory Management
 - Add/Remove Update medicine
- Sales and Billing
 - Billing
 - Pdf generator
- Prescription verification using blockchain
 - Prescription verification

3.Customer Module:

The customer module is designed for individuals who visit the medical store as customers. It includes the following features:

- Product Search
 - Medicine search
 - Viewing
- Order Placement
 - Add to cart
 - Order placement
 - Billing
- Order Tracking
- Account Management
- Prescription Upload

4. Medical Representative

- Performance of their respective product
 - Sales
 - Quantity sold per customer
- Can book appointments to check in with the pharmacist

5. General public

- View medicine listing

Technology used

Blockchain technology

Chat bot and support

Modules and their functionalities

1. User Management Module: This module manages user roles and permissions, allowing the creation, modification, and deletion of user accounts for admin users, pharmacists, medical representatives, and customers.

2. Prescription Verification Module: The Prescription Verification Module utilizes blockchain technology to securely verify prescriptions provided by customers for ordering prescription drugs online.

3. Inventory Management Module: The Inventory Management Module handles the tracking, monitoring, and organization of medicines and related products in the medical store's inventory. It provides admin with real-time data on the availability and stock levels of medicines.

4. Order Processing Module: The Order Processing Module facilitates the processing of customer orders placed through the system. Pharmacists receive and validate prescriptions and then dispense the required medicines.

5. Medical Representative Alert Module: This module sends alerts to medical representatives, providing them with performance data of their products in the market, such as sales and demand trends.

6. Customer Order History Module: The Customer Order History Module maintains a record of customer orders and their order history for reference and future use.

7. Reporting and Analytics Module: The Reporting and Analytics Module generates reports and provides insights into sales, inventory status, and other key performance indicators, aiding in decision-making and strategic planning.

8. General Information Module: This module may contain general information about the medical store, guidelines for customers, and other informative content accessible to the general public.

Conclusion

Overall, the Medical Store and Inventory system with admin, pharmacist, customer, and medical representative modules aim to streamline operations, improve inventory management, enhance customer experience, and provide valuable insights for effective decision-making.