RX:KEEPER -

ONLINE MEDICAL STORE AND INVENTORY

Date: 02/08/2023 **Guide**: Sr.Elsin C. SH

1. Project Overview?

The Medical Store and Inventory Management Project is a comprehensive system designed to cater to the needs of admin users, pharmacist users, customer users, and medical representatives. The project aims to benefit store owners, system administrators, and customers by providing efficient inventory management and restocking capabilities through medical representatives. Leveraging blockchain technology, the system ensures secure verification of prescriptions, enabling controlled drug usage. The project is to be completed over the course of two semesters, with each module strategically planned to ensure achievable milestones in each semester. By the end of the project, stakeholders will have a user-friendly platform that streamlines operations and enhances drug distribution and management processes in the medical store domain.

2. To what extend the system is proposed for?

The proposed Medical Store and Inventory Management System aims to simplify online prescription verification by utilizing blockchain technology. The system facilitates a secure and tamper-proof method for customers to order prescription drugs by submitting specific prescriptions through blockchain. Additionally, medical representatives are provided with real-time alerts to monitor the performance of their products in the market, allowing them to make informed decisions. Stockists are given access to a dedicated module to track the status of their medicines, ensuring efficient inventory management and timely restocking. By leveraging blockchain for prescription verification and providing valuable features for all stakeholders, the system enhances transparency, efficiency, and accountability within the medical store domain, ultimately improving the overall healthcare supply chain.

- 3. Specify the Viewers/Public which is to be involved in the System?
 - 1. Customers: Customers are the primary users of the system who can access the online platform to order prescription drugs. They submit specific prescriptions through blockchain for verification and place orders for required medicines.
 - 2. Medical Representatives: Medical representatives are part of the system and receive real-time alerts about the performance of their products in the market. They use the system to stay informed about sales data and monitor the demand for specific medicines.
 - 3. Admin Users: Admin users are responsible for overseeing the entire system and have access to administrative functionalities. They manage user roles, maintain system settings, and handle critical system operations
 - 4. Pharmacists: Pharmacists are users who interact with the system to process and fulfill customer orders. They validate and dispense prescription drugs based on the verified prescriptions through blockchain.
 - 5. General Public: While the system primarily caters to the users mentioned above, certain aspects of the system may be accessible to the general public. For example, some information related to product availability and general guidelines may be available to the public for transparency and awareness purposes.

4. List the Modules included in your System?

The Medical Store and Inventory Management System consists of several modules, each serving specific functionalities and roles within the system. The modules included in the system are as follows:

- 1.Admin
- 2.Pharmasist
- 3.Customer
- 4. Medical Representative
- 5.General public
- 5. Identify the users in your project?

Administrator, Customer, Pharmacist, Medical Representative, and General Public

- 6. Who owns the system? Administrator
- 7. System is related to which firm/industry/organization? System is related to the Medical Industry.
- Details of person that you have contacted for data collection?
 Deepak Castalino
 Medical Representative

- 9. Questionnaire to collect details about the project? (min 10 questions, include descriptive answers, attach additional docs (e.g. Bill receipts, certificate models), if any?)
 - 1. How does a medical store work?
 - -Medical stores are where general public purchases their medicines. A medical store has a registered pharmacist who is properly trained to provide information about medicines.

A store owner who manages the overall activities of the store.

- 2. How does a medical store know about the medicines which are to be kept in stock?
- -A pharmacy relies on medical representatives who introduces medicines and promotes their product to doctors.
- 3. Should a customer have a prescription to purchase a medicine?
- -Yes, normally a person who approaches a medical store should have a prescription by a specific doctor. Here general public is somewhat hesitant to visit doctors for small illnesses.
- 4.Can any doctors prescribe medicines?
- -Doctor can only prescribe medicine related to their field of study Normally All doctors in India should have mbbs or related degree. A dentist can only prescribe medicines which are related to tooth or gum, they can prescribe pain killers and antibiotics for infection of the gum.
- 5. Where does these medicines come from?
- -Medicines are distributed from stockists. A medical store would have supplies from different distributor. These distributors always keep in-check with the medical stores.
- 6.Are there medicines which need specific prescriptions from specific doctors?
- -Yes, there are specific schedules of medicines which doctors can prescribe. There are medicines which can only be sold with valid prescription. Some

schedules also state pharmacists to store the prescription for 2 years and those medicines are to be kept under lock and key.

7. Medicines should be stored in specific condition?

-Yes, there are specific condition to store medicines. Normally medicines can be stored in room temperature. But there are medicines which require to be stored in cold storage for the to be effective.

8. How are medicines priced?

-Medicines are priced according to manufactures. Medicines which are used frequently tend to have low cost.

9. Does Pharmacists require licenses?

-For a medical store to retails medicines a person should have a B. Pharm or M. Pharma or pharma D degree.

10. Can different manufactures have different names for the same medicine?

-Yes, different manufactures can have different names for different medicines. Usually, a doctor names a brand he is sure the near by pharmacy have in stock.

11. What does Rx mean?

- Rx is commonly known to most as the symbol for a medical prescription. However, the symbol is derived from the Latin word recipe or "recipere" which means to take. The word was later abbreviated and became Rx as we know it today.