CENTRAL INSTITUTE OF TECHNOLOGY KOKRAJHAR

Medical Shop Automation System

Course code: - UCSE672(Software Engineering Laboratory)

Module: - B Tech, 6th semester

Department: - Computer Science and Engineering

Submitted by: -

Amrit Kumar Tiwari 202002021002

Jimmy Brahma 202002021050

Ringkang Basumatary 202002021010

Saptarshi Ganguly 202002022116

Introduction:

In today's medical industry, there is a growing emphasis on providing reliable and accurate services to customers and employees alike. Many leading medical shops are leveraging technology to offer a wider range of choices and better customer experiences. To achieve this, businesses are turning to computerized equipment and software to automate their existing manual systems. By doing so, they can store valuable data and information for longer periods and easily access and manipulate it as needed. The goal is to improve overall efficiency and provide a seamless experience for all parties involved. This "Medical Shop Automation System" project aims to provide similar features by managing and recording the activities of an entire medical shop with multiple facilities. This system is designed to streamline the management process and ensure that all operations are properly recorded and tracked.

The Medicines Automation System is a software system that automates and streamlines medication dispensing, administration, and monitoring in healthcare facilities. The system will improve patient safety by reducing medication errors and enhancing medication management.

Objective:

The Medicines Automation System will manage medication dispensing, administration, and monitoring in healthcare facilities. The system will integrate with electronic health records (EHRs) and pharmacy information systems (PISs).

The main objectives behind the development of this project are as follows:

1) To assist the medical shopkeeper and wholesalers in capturing the effort spent on their respective working areas.

2) To keep track of purchased medicines and stock status

3) To provide computerized sale and generate bill for a particular sale.

4) To keep and manage transaction from suppliers.

5) To maintain the payment system for supplier.

6) To store the details of medicines category wise.

7) To search a medicine in stock.

8) To generate report of sale between two dates.

9) To generate the reports from various transaction table as per query.

This Software Requirements Specification (SRS) document is to outline the functional and non-functional requirements for the Medicines Automation System.

Modules Used in :

1. Add new Medicine module

The Medicine Management Module is designed for shopkeepers to add new medicines available in the market as prescribed by doctors, enlist the number of medicines, modify or delete existing items, generate item lists, and order items from suppliers.

2. Sale Module

This module deals with the sale of medicines for the desired customers and generating various reports such as Sale Repot, Stock Report, etc.

3. Stock module

This module manages medicine sales to customers and generates reports such as Sales Report and Stock Report.

4. Security module

This software module is responsible for managing security features. Its functions include verifying authorized logins and accesses, preventing unauthorized deletion or editing of records, and assigning access permissions to users.

5. Supplier module

In This module manages supplier-related tasks such as adding new suppliers, modifying or deleting existing ones, and generating a list of suppliers. It maintains a comprehensive database of all suppliers, including their names, addresses, contact numbers, and other relevant details.

6. Supplier Payment module

This module enables users to create or modify payment details for suppliers who provide products (medicines) to us. The existing functionality is dynamic and flexible, which is a powerful feature of this application. This enables the software to work seamlessly with a wide range of suppliers, making it a dynamic rather than a static application.

7. Worker module

This module generates and maintains worker information, including details of new employees such as their names, addresses, job types, and salaries. This information is then used in the salary form to calculate and pay employee salaries.

8. Salary module

This module handles the process of salary given to workers, which comes to the worker module based on their jobs.

9. Report module

This module manages the report generation process for various types of reports, such as bill generation, supplier lists, and product lists. These reports are highly beneficial for both management and customers. The module is responsible for generating bills for customers.

Conclusion:

The Medicines Automation System will enhance medication management, improve patient safety, and streamline medication dispensing and administration in healthcare facilities. This SRS document has outlined the functional and non-functional requirements for the system, which will serve as a blueprint for the system's design, development, and implementation. The system shall provide user management, patient management, medication management, prescription management, dispensing management, alerts and warnings, reporting and analytics functionalities. The system shall also comply with security, performance, availability, usability, compatibility, and regulatory constraints.

Reference:

www.scribd.com/document/256044765/Medical-Shop-Automation-System#fullscreen&from_embed