SOFTWARE REQUIREMENT SPECIFICATION DOCUMENT FOR A PHARMACY'S POINT OF SALE TERMINAL

1. INTRODUCTION

The pharmacy point of sale terminal includes the hardware and software related to the transactions. Helps the pharmacy digitally and electronically accept payments, manage the inventory, manage customers and confirm or approve purchase orders. The POS is specifically designed for an independent pharmacy.

1.1 Purpose

The key objectives of this system are described below :

- Support the latest technologies in barcode scanning and payment security.
- Provide a pharmacy store inventory solution that features electronic data capture for quicker audits.
- Produce a receipt and display it on the screen.
- Easy to enter and update all types of records.

1.2 Intended use

 Execute payment transactions and include the taxes payable.

1.3 Product Scope

- POS able to switch to an offline database when internet connection is lost.
- Cashier can have access to the POS interface only.
- Purchase manager will have access to only the purchase management module.
- Sales manager will have access to only the sales management module.
- Owner has authority to interact with the whole system.

1.4 Definitions, abbreviations and Acronyms

POS - point of sale.

GUI - graphical user interface.

Purchase manager - is a person responsible for maintaining purchase records.

Sales manager - is a person responsible for maintaining sales records.

Owner - person who owns the system and has authority to do anything.

Customer - person who comes to the pharmacy to purchase a product.

Cashier - person who processes sales for customers.

Product - customer's purchase.

User - anyone interacting with the system.

2.OVERALL DESCRIPTION

2.1 Product functions

- Cashier must log in to the system.
- Product barcode/QR code generation.
- Check and update inventory.
- Display and compute amount.
- Approves or declines payment transaction.
- Updates databases.
- Generates receipt.

2.2 User Characteristics

Owner :

- ID
- PASSWORD

Cashier :

- ID
- PASSWORD

Sales Manager :

- ID
- PASSWORD

Purchases Manager :

- ID
- PASSWORD

Customer :

Has no authority to interact with the system.

2.3 Assumptions and Dependencies

- System relies on C++.
- The system is integrated with Oracle Database Management Systems.
- Does not require any extra installation.

3.SYSTEM FEATURES AND REQUIREMENTS

3.1 External Interface Requirements.

3.1.1 System interface

The user logs in with their ID to verify authentication. After that, the POS software is launched and the page also contains a logout button.

3.1.2 Hardware interface

Recommended hardware required to operate this system include : computer, barcode scanners, bank card readers, touchscreen monitors, cash drawers, bank card terminal boxes and receipt printers.

3.1.3 Software interface

- Windows embedded POSReady(Operating System).
- Oracle Database Management Systems.
- Payment processing software.

3.2 Functional Requirements.

The system provides these facilities :

- The user has to prove authentication before interacting with the system.
- Supports modification and manipulation in the databases in later times if needed.
- The system can only be accessed by authentication proven process.
- The system computes the total amount and displays it.
- The system auto updates software to the latest versions.
- The system can be accessed offline in case of disconnection from the internet.

3.3 Nonfunctional Requirements.

3.3.1 Availability - the system is user-friendly as it is integrated with GUI.

3.3.2 Performance - improved workflow as response time is quite fast.

3.3.3 Reliability - increased efficiency in performance.

3.3.4 Maintainability - easy to maintain and manipulate.

3.3.5 Security - only authentically proven persons can gain access to the system.

3.3.6 Compliance - comply with legal requirements and consumer protection laws.