**Software Requirements Specification**

**for**

**Pharmacy Store Management System**

Version 1.0 Approved

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1. **Introduction**
   1. **Purpose**

The Pharmacy Store Management System (PSMS) main purpose is to accomplish pharmacy tasks operated by Pharmacists and Pharmacy Technicians in a proper standard. The software will create user-friendly environment to avoid common mistakes such as: Patient information loss, Check in stock products. The system will have two main sections: The doctor section, and the patient section. Each one will have features that will be available to use. The medical doctor will be able to fill the patient information in the system with an approved signature. The system will also have “in stock” feature that will allow the user to see current products/items in store.

* 1. **Definitions**

PSMS: Pharmacy Store Management System.

Independent pharmacies: A retail pharmacy that is not directly affiliated with any chain of pharmacies and is not owned (or operated) by a publicly traded company.

Patient information loss: Patients records such their name, age, gender, allergies, contact info.

* 1. **System overview**

Pharmacy store management system is designed for independent pharmacies operations. It helps pharmacists and the pharmacy technicians by providing a means to store and access store information. This information will have two different main sections. One section will be for the doctor’s name, contact information, and signature. The other section will be for their customers’ name, age, gender, allergies, contact info, and the reason for visit. There will also be a means of storing information about the pharmacy inventory and brief description of items/products in stock.

* 1. **References**

Read more about independent pharmacies by visiting: <https://en.wikipedia.org/wiki/Independent_pharmacy>

Instructions on proper medicines use:

<https://kidshealth.org/en/teens/meds.html>

What do pharmacists do? Find more:

<https://studentscholarships.org/salary/476/pharmacists.php>

1. **Overall Description**
   1. **Product perspective**

* System Interfaces

PSMS-V01 will be addressing the file system interface with incorporating of the interaction of databases systems and the human inputs.

* User Interfaces

The user interfaces will be containing both command-driven interface menu-driven interface where the user can use a command or select a command from various options displayed on the screen.

The user will open the application, it will contain a box for login info, it will display the user’s name, time and date, search button to find an inventory info about specific medication, patient’s profile button, doctor profile button, create new patient profile button.

* Hardware interfaces

PCs or Laptops than run on Windows 10 as minimum or Linux they may or may not have Touch Screen feature.

USB **-** ExternalPeripherals will be used for the purpose of using keyboards, mice, printers. For network, ethernet will be used to hook up cables or DSL modem. In addition, wireless network can be used such as Wi-Fi.

* Software interfaces

Data Stream, menu driven (mdi), and graphical user interface (GUI JAVA)

* Communication Interfaces

On board and external communication interfaces.

* Memory Constraints

For our purposes we will use:

Windows 10 Education – 2TB

* Operations

Software Operations & Maintenance will involve the following:

* operating production software applications
* monitoring system performance
* making defect repairs
* testing the application after any changes are made
* tuning a releases software system.
* Backup data recovery
* Site Adaptation Requirements

The software will be installed on the PCs of the pharmacy store. The software will be easy to install by the pharmacy technician and easy to maintain.

* 1. **Product functions**

Pharmacy store management system functions are to store and access store information. This information will be stored in tow different sections. One section will be for the doctor’s name, contact information, and signature. The other section will be for their customers’ name, age, gender, allergies, contact info, and the reason for visit. Also, it will containsearch feature in which to provide information about the pharmacy inventory and brief description of items/products in stock.

* 1. **User characteristics**

The typical user will be the pharmacists and the pharmacy technicians who have knowledge how to use a computer besides their job description.

* 1. **Constraints, assumptions, and dependencies**

PSMS will be available on the operating systems specified if it is not available, then the SRS will change accordingly. In addition, any changes in the requirements their will be changing accordingly.

1. **Specific requirements**
   1. **External interface requirements**

The requirements for PSMS are network supporting software and hardware, as well as standard user interface tools, such as keyboard and mouse.

* 1. **Functional requirements**

The Functional requirements for PSMS are adding, removing, and modifying database entries for doctors, patients, and pharmacists. There will also be functions to keep track of inventory for pharmacists. There will also be functions to allow for better communication between doctors and pharmacists, by double checking entries for prescriptions for medications that already exist for given patients, and alerting pharmacists when a patient isn’t picking up their prescription.

* 1. **Performance requirements**

The system will not have to be exceptionally fast at its database queries. A worst case scenario should be at worst a minute for a query. The size of the database should be rather large starting off, and should allow for dynamically allocating more storage.

* 1. **Design constraints**
* Standard Compliance

Being as this project has no current customer, or sponsor, PSMS does not have any standard constraints. The only constraints to consider would be those put in place by organizations such as those imposed by the FDA.

* 1. **Logical database requirement**

Database should be easily backup-able in case of a complete system failure or destruction. It should be possible to remove or add authorization from users so that new doctors and pharmacists can use the system, as well as removing old user accounts.

* 1. **Software System attributes**
* Reliability

PSMS will not have to be operational 24/7 due to the nature of most pharmacies not being open 24/7. PSMS should be considered reliable for at least average business hours (8-10 hours).

* Availability

PSMS should only be accessible to authorized users during the business hours of the pharmacy or doctor’s office.

* Security

The security for this kind of program will have to be extremely secure due to the nature of the kind of data stored in the database associated with the program. The system should only be accessible to authorized users, such as doctors, pharmacists, and those authorized to maintain the system.

* Maintainability

The system should be highly maintainable as most of the general functions of PSMS are rather simplistic database functions.

* Portability

The program should only be used by pharmacists and doctors while doing business in their offices, so PSMS does not need to be portable.

**3.7 Other Requirements**

As mentioned in the Design constraints section, the only other types of requirements to consider would be of those presented by the FDA, which can be found here (<https://www.fda.gov/media/73141/download> ). Seeing as this project is a Student project, in which these requirements are outside of the scope of the project requirements, These might not be implemented, but they will be considered.