Software Requirements Specification

for

Pharmacy Management System

Version 1.1 approved

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Table of Contents

Revision History

Name	Date	Reason for changes	Version
Module features	5/1/2020	Elaborate the module features	1.0

Abstract

Concerns have nature. While some are simple to accomplish, others are involved in nature. The pharmacy sector is one and to achieve the same we have a Pharmacy management system. But like any other business domain, the Pharmacy also requires optimized strength and support from well-developed software to do this job. The need for this type of software increases every day and, therefore, the number of companies that provide the same services is also prosperous. Pharmacies take sustainable measures of obligation towards consumers. Managing the needs of such a large crowd is not feasible until there is an automated method ready for these professionals.

The purpose of this Pharmacy Management System project is to improve the maintenance and handling of medications within medications. The pharmacy management system will minimize time and resources by systematically maintaining the fine print of the medication so that information is used often in the shortest possible time. Although the resources that are minimized are the workforce, money, documents, etc. The system is easy to use and can help he pharmacist. This pharmacy management system will reduce the burden on the pharmacist and can make the system efficient by providing more accurate details about medications in the medical setting.

Abbreviation

ICT- Information and communication technology

PMS- Pharmacy Management System

SRS- Software requirement specification

PHP- Personal homepage

SQL- Structured query language

GUI- Graphical user interface

GB- Gigabyte

VGA- Video graphics array

1. Introduction

Today, information and communication technology (ICI) plays an excellent role in various fields or areas, making the healthcare system a present. This results in various studies and research being carried out to choose health care facilities. it is necessary to ensure a technologically appropriate, equitable, affordable, efficient and adaptable system to the environment and consumer friendly, designed to fully use ICT for maximum benefit within the health care industry.

Here computers have a great relevance in the storage of data in a secure way and facilitate access to them for a short period of time.

To take advantage of ICT in the health system, the pharmacy management system is being built. The pharmacy management system is a strong and integrated technology. The pharmacy management system deals with the maintenance of medications and consumables within the pharmacy unit. The configuration of this pharmacy management system will ensure the availability of a sufficient quantity of medicines and consumable materials for the patient. This can improve the efficiency of clinical work and facilitate patient convenience, given that Ethiopia is moving towards pharmaceutical patient care. Plus, the pharmacy management system will be ready to process prescription medications with ease. PMS (Pharmacy Management System) will be designed to detect drug interaction.

In general, the pharmacy management system is based on the technology that provides service to users, managed by the pharmacist that provides the implementation of the function in relatively effective times and that will also be designed to eliminate stagnation, saving resources Easy access to drug data, data security input and data access by eliminating an almost manual system.

1.1 Purpose

This software requirements specification (SRS) is design and its primary purpose is, for example, all the needs of the project pharmacy management system. This SRS document mentions all the knowledge associated with the project and provides a detailed description of each and every functional and non-functional requirement proposed by the client. And this SRS will also illustrate what the system-like user interfaces are after implementation and how they connect to each other using some sketches. Then the customer can easily understand the final system of the system. This SRS document is designed after having some consultation with the client and after having fully understood the client's requirements. Therefore, the ultimate event team software solution will meet all customer requirements and each of the functionalities will work because it is described here during this SRS document.

1.2 Document Conventions

The following is the list of typographical conventions and standards used in this SRS document.

Main Section Titles

Font: Times New Roman Face: Bold Size: 18

Sub Section Titles

Font: Times New Roman Face: Bold Size: 14

Other Text Explanations

Font: Times New Roman Face: Normal Size: 12

1.3 Product Scope

With the case of specific and potent synthetic drugs, the stress of the pharmacist's responsibility has moved substantially towards the use of the domain of knowledge within the proper use of recent medications and, therefore, the protection of the general public against dangers. inherent in its use. Pharmacists work in regulatory control and drug management, community pharmacy, hospital pharmacy, pharmaceutical industry, academic activities, training of other physicians, and research. Together in these fields, its objective is to guarantee optimal pharmacological therapy, both by contributing to the preparation, supply and control of drugs and associated products, and providing

information and advice to those who prescribe or use pharmaceuticals.

1.4 References

1.https://www.slideshare.net/HabtamuAsmare/pharmacy-management-system-requirement-analysis-and-elicitaion-document

2.https://www.pppmag.com/article/107/November_2006/Functional_Requirements_for_Pharmacy_Information_Management_Systems/

3.https://www.geeksforgeeks.org/software-engineering-classification-of-software-requirements/

2. Overall Description

2.1 Product Perspective

The design of the pharmacy administration system is based on the PC, which can simplify the maintenance of knowledge, accessible and efficient. The Pharmacy Management System will provide the knowledge about the top of the drugs within the medicine so that the doctor can get the drugs organized before the top. The pharmacist and helpers will obtain more accurate results at the time of sale, on the fine print of medication use and therefore dosages to make the system more reliable to use than this system. The records of each job will be safe when accessing the knowledge that the user must need to provide the ID and password within the system.

2.2 Product Functions

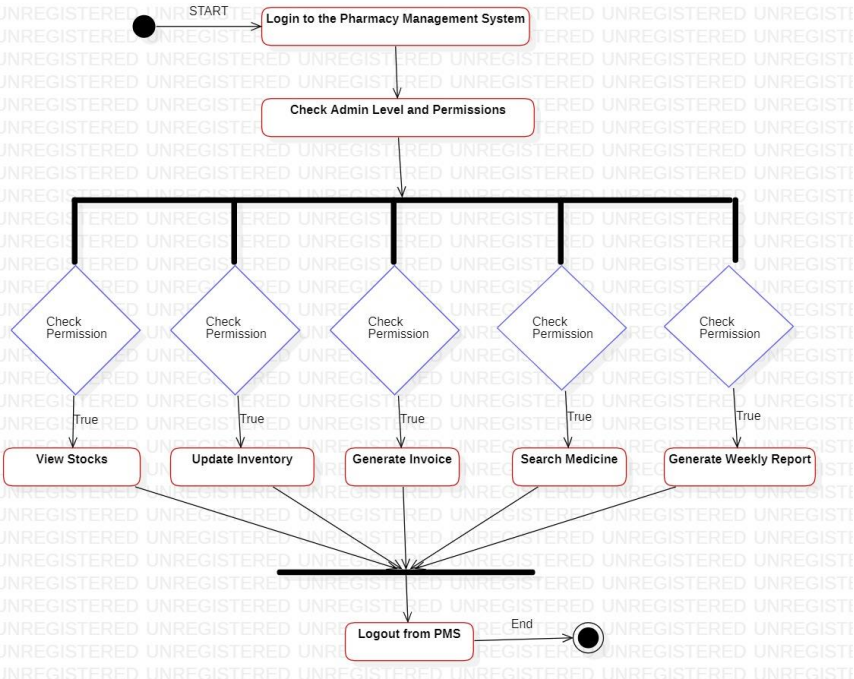
The application function is as follows:

Functional Requirements:

In software engineering and systems engineering, the practical requirement may range from the high-level conceptual document of the sender's requirement to detailed mathematical structural necessary specifications. Practical software requirements help you to capture the planned behavior of the organization. Transaction corrections,

modifications, and cancellations, job regulation, documentation Requirements, Reporting Requirements, Administrative purposes, authority levels, accounting Tracking, External Interfaces, Historical information administration, Legal or Regulatory Requirements are various types of functional Requirements

a. View stocks: This is one of the functional requirements on the client side. A service that will provide the user with complete data related to stock.
b. Update inventory: By using this service, the user will be able to add new medications in the store to keep track of each and every one of the medications that they brought and update the database.
c. Generate invoice: With the help of this service, the user can generate an automated invoice for the end customer. That will have total drugs purchased and cost per drug.
d. Search medicine: Here, using this function, the user will be able to search for a particular medicine, whether the medicine is in stock or there is a substitute.



Activity Diagram for pharmacy Management System

Login: The pharmacist will have access to the system by using this module. They must provide the information about the user ID and password that was provided to them at the time of registration.

Register: The pharmacist will need to provide some basic details about them in the system, after which they will get an ID and password to use to log into the system.

2.3 Operating Environment

This application is built in using Php. Therefore, it is a cross-platform application. It can run on any operating system with any browser installed. This application required browsers like Google Chrome, Mozilla Firefox and Opera support along with SQLite or MySQL. SQLite or MySQL are used as the back-end database for storing the data. Due to the regular stock entry, the handler needs appropriate computer skills.

2.4 Design and Implementation Constraints

Database:
We will use SQLite or MySQL Database for backend

Operating System:
Development environment will be Ubuntu 18.04 and Windows XP.

User Interface:
User interface will be GUI based.

2.5 Assumptions and Dependencies

To use this application without problem and user of this app (pharmacist) must be aware from some important points:

a) System must install browser.

b) If application is work on MySQL the MySQL should be installed on the system.

c) If application is using SQLite as a backend make sure that database file should be secure from virous, malwares, or unauthenticated users.

2.6 Module features

a) Daily customer management.

There is a separate table for customers in the database, which contains certain details of the customer. This helps the pharmacist to manage the pharmacy business and keep track of every sale.

b) User management.

This function helps the administrator to manage users with access to the software or the database. The administrator has the right to monitor the database remotely and can make changes if necessary.

c) Transaction management.

The pharmacist can track every purchase, whether offline or online, since the order table is available in the database and only administrators and users can access it with the appropriate login information.

d) Reminder.

As the name suggests, this function offers the customer leftovers for the monthly refilling of medication. This function also reminds the pharmacist to update the stocks according to a certain limit set for the inventory.

e) Calendar planning.

This function is an extension of the above function. The pharmacist can even plan the purchase of the drug in the parent pharmacy and mark it as an event in the software calendar.

f) Powerful search option.

This customer and pharmacist can search for a drug by drug name, type, category and treatment.

g) Powerful reports.

With this function, the pharmacist receives a weekly sales report. This gives the pharmacist feedback on his sales and makes the appropriate changes.

3. External Interface Requirements

3.1 User Interfaces

In this application we use a GUI based user interface through which the pharmacist can interact with the application.

3.2 Hardware Interfaces

a) A minimum hard disk space of 20 Gigabytes (GB).
b) RAM size of 1GB and higher.
c) Pentium 4 dual processor CPU above.
d) A VGA color monitor.
e) Mouse and keyboard.

3.3 Software Interfaces

Run time environment:

XAMPP, PHP Strom

Backend:

MySQL or SQLite

4. System Features

This application mainly focused on records on the customers, and the security for that records.

So that unauthorized user cannot access this application. We will provide id and password to the user so that no one can use this application without authorized users.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

Since it is the pharmacy software, the user needs a quick response from the software. The processing time should be very short. If a pharmacist acts in a pharmacy, there is a

possibility that a customer group will arrive at a certain time. The motive of the software is to provide the user with high throughput with accuracy, while the user can do business and increase productivity.

5.2 Safety Requirements

This application has kept the records of the purchase of medicines by customers for a long time. Therefore, make sure that you make a return regularly. If the database crashes for certain reasons, we can also reset all of this data from the backup.

5.3 Security Requirements

Back up the database and avoid direct access by unauthorized users to the system. User antivirus programs to protect data from viruses and malware cause damage to the database and the application. There will be a secure registration system with user name and password, then only the person will have access to the Pharmacy Management System.

5.4 Conclusion

The effective implementation of this software takes into account the basic requirements of the pharmacy management system, as it enables simple and effective storage of data on activities within the specified range. The goals of system design have been achieved. In order to enable future expansion, the system was designed in such a way that a possible change is possible, as this is considered necessary by the pharmacy management if necessary.