Software Requirements Specification

for

MEDPLUS

Version 1.1 approved

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Prepared by

ATHIRA ARUN

NAKUL

NIDHIN

PREMDEV

Contents

1. Introduction

In today's busy schedule, people often tend to forget the most important things of our life, that is taking care of our health. When it comes to health, a big part of it is dealt by our medicines.This app intends to make it easier for the users by handling a few of the most responsible things regarding medicines.Anybody who would like to get relieved of the headache of remembering and counting medicines every alternate day should use this app. It will help not just in maintaining stocks but will also show nearby shops' locations where the medicine might be available.

1.1 Purpose

To assist people in reminding them about medicines, tracking their current stock of the required medicines, getting the location of the nearest chemist shop and scheduling appointments at the nearest clinic.

1.2 Abbreviations, Acronyms and Definitions

TERM	DEFINITON
Database	Collection of all the information monitored by this system.
User	Any person or company logged on the system.
Java	A programming Platform to develop dynamic web application.
Software Requirements Specification (SRS)	A document that completely describes all of the functions of a proposed system and the constraints under which it must operate.
Eclipse IDE	Eclipse is a multi-language Integrated Development Environment comprising a base workspace and an extensible plug-in system for customizing the environment.

1.3 Product Scope

- This medicine reminder is a simple web app, and can help manage numerous people's medications . It also tracks their prescriptions and reminds when it's time for a refill.
- This app will be used in the study, and a process evaluation will provide insights on which characteristics and features of medication reminder apps are more likely to be useful and increase patient engagement and optimise effects.
- Medication adherence will be measured using a validated self-report questionnaire; however, more objective outcomes such as prescription refills data .

1.4 References

[1] Park, KeeHyun & Lim, SeungHyeon, (2012) "Construction of a Medication Reminder Synchronization System based on Data Synchronization", International Journal of Bio-Science and Bio-Technology, Vol.4, No. 4, pp1-10.

[2] "Smartphone medication adherence apps: Potential benefits to patients and providers", available at: http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3919626

https://www.javatpoint.com

https://www.tutorialspoint.com/java/index.htm

1.5 Intended Audients

Health apps can monitor patients outside of the hospital, track vitals or even analyze medical condition of patients. This web app aim to analyze whether old people manage their medication in the home and contribute to increasing patient adherence and are considered useful by the users.

2. Overall Description

In this section it describes the overall working of our system. It is a web app designed for helping old people with their medical routine. It provide facilities for setting remainders for taking medicines. It also reminds the user when medicine stock goes below 15%.It helps in tracking the location of nearby medical shops.

2.1 Product Perspective

MEDPLUS is an app that is aimed towards old people who take medicines regularly. It help the users to follow their medical routine. This project not only help the users to take medicines but also helps to check the stock of medicines. It also helps to track the location of nearby medical shops. MEDPLUS should be user friendly, quick to learn and application .

2.2 Product Functions

MEDPLUS can perform these basic functions:

- Reminders to take medicines.
- Reminder if the stock of a medicine falls for less than 15%.
- List of chemist shops nearby to replenish the medicine stock.

  Different users and their functions are described below:

  User: **Administrator**

  Functions: The administrator can add, edit and delete any details of medical shops. He can also add location of nearby medical shops.

  User: **Users**

  Functions: users will get remainder for medications. They also receive notifications when the medicine stock goes below 15%. Users can also track the location of nearby medical shops.

2.3 Design and Implementation Constraints

- The chemist shops which are not registered on Google Maps and other online resources.

  This study is limited by its small sample size and short-term follow-up; however, the results of this study will provide preliminary data essential to design a bigger trial with a longer term follow-up.

3. Requirements

3.1 Hardware Requirments

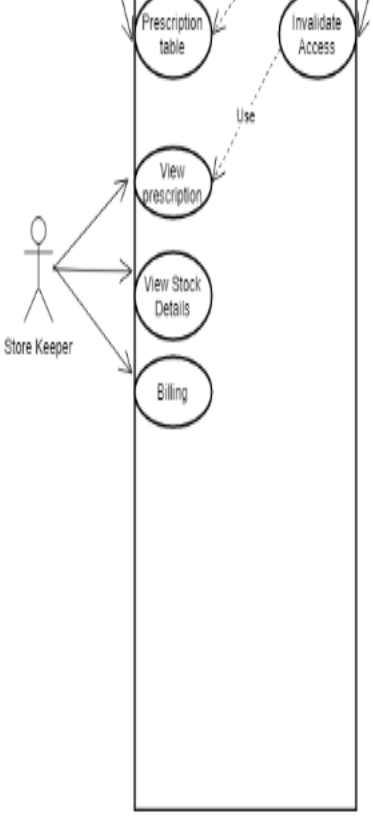
This project will be done in the following operating environment:-

Operating system	:	Windows 10
Processor	:	intel CORE I 5
Installed RAM	:	4 GB
System type	:	64 bit operating system

3.2 Software Requirements

The Software Requirements is a technical specification of requirements for the software product. The goal of software requirements definition is to completely and consistently specify the technical requirements for the software product in a concise and unambiguous manner.

Platform	: Java 1.8jdk
Technology	: JSP Application
Front End Tool	: Eclipse mars 2.0
Back End Tool	: Oracle 11gExpress SQL Server.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Invalidate Access
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View Stock Details
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Store Keeper

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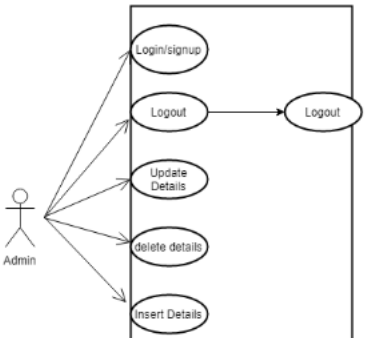
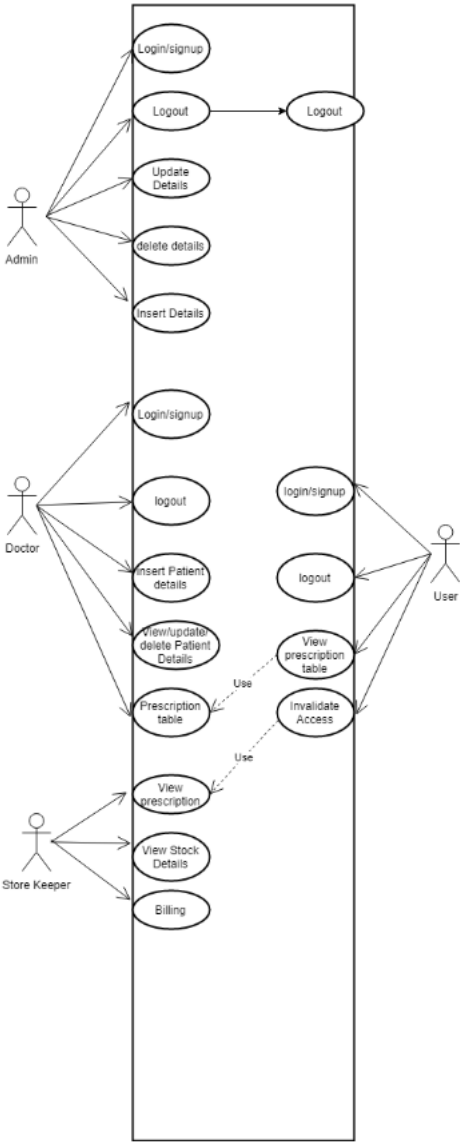
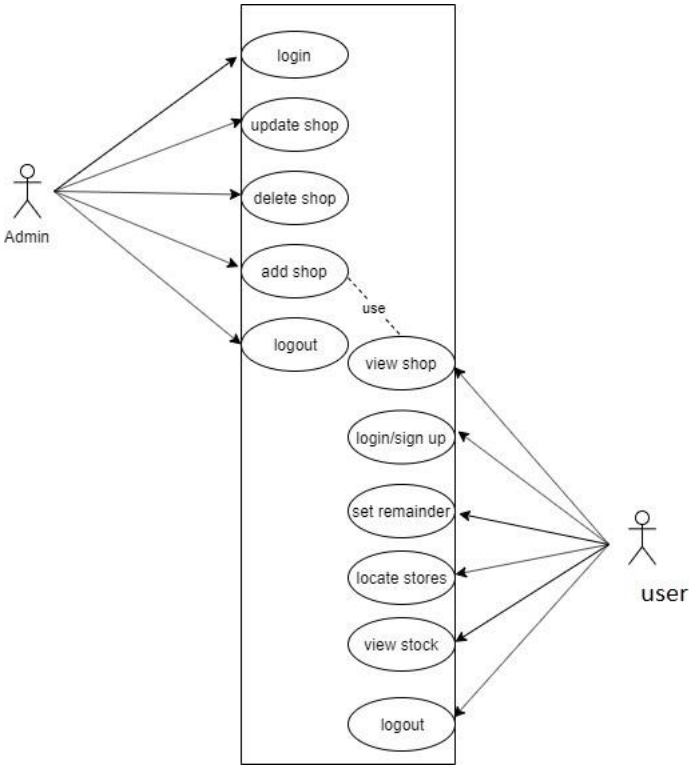

Login/signup
Logout
Logout
Update Details
delete details
Insert Details
Admin


Login/signup
Logout
Logout
Update Details
delete details
Insert Details
Admin
Login/signup
logout
login/signup
Doctor
Insert Patient details
logout
User
View/update/ delete Patient Details
View prescription table
Use
Prescription table
Invalidate Access
Use
View prescription
View Stock Details
Billing
Store Keeper


login
update shop
delete shop
add shop
use
logout
view shop
login/sign up
set remainder
locate stores
view stock
logout
Admin
user

4. Nonfunctional Requirements

4.1 DATA MODEL AND DESCRIPTION

TBL_REGISTRATION

1	REG_ID	NUMBER	PRIMARY
2	REG_NAME	VARCHAR	_
3	REG_PLACE	VARCHAR	_
4	REG_MOBILE	VARCHAR	_
5	REG_AGE	NUMBER	_
6	REG_EMAIL	VARCHAR	_

TBL_LOGINTABLE

1	L_ID	NUMBER	PRIMARY
2	L_NAME	VARCHAR	_
3	L_PASSWORD	NUMBER	_
4	L_ROLE	VARCHAR	_
5	REG_ID	NUMBER	_

TBL_MEDICINE

1	M_ID	NUMBER	PRIMARY
2	M_MEDNAME	VARCHAR	_
3	M_TIME	VARCHAR	_
4	M_QUANTITY	NUMBER	_
5	M_NEWQUANTITY	NUMBER	_
6	REG_ID	NUMBER	_

TBL_STORELOC

1	ST_ID	NUMBER	PRIMARY
2	ST_UNAME	VARCHAR	_
3	ST_LONGITUDE	NUMBER	_
4	ST_LATITUDE	NUMBER	_
5	ST_PLACE	VARCHAR	

5. PLANNING

5.1 Team Structure

Our team members are Nidhin V S, Premdev A P, Athira Arun, and Nakul P. Distribution of tasks as follows:

Name Surname	**Student Id**	**Task/Job**
Nidhin V S	1	Software Developer
Premdev A P	2	Software Developer
Athira Arun	3	Software Developer
Nakul P	4	Software Developer

5.2 Process Model

Agile methodology

- Scope out and prioritize projects
- Diagram requirements for the initial sprint
- Construction/iteration
- Release the iteration into production

- Production and on going support for the software release
- Retirement

6. CONCLUSION

In Conclusion, in this SRS document, we have described about our project **MEDPLUS** . This is the second version plan about our project, therefore some features may update/add to newer versions of the document also some can be removed because of unpredictable reasons. The updated document may contain the information about removal or addition process .