



Med-X, Medicine Reminder App

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ABSTRACT: --

We entirely rely on devices, particularly cellphones, in our ever growing and technologically dependent lives. Everyone nowadays owns a smartphone. As a result, we will be able to better exploit technology in order to make it more useful to us. It also plays a vital role in our daily lives, assisting us in a variety of ways. Life today is full with duties and stress. As a result, humans are susceptible to a variety of ailments, and it is our responsibility to keep ourselves fit and healthy. Med-X is an Android software that helps those who are forgetful or busy remember to take their daily meds.

Key-Words: - Android Application, Medication, Reminder, Notification, Medicine Adherence, Medicine non-Adherence.

Introduction

According to the Food and Drug Administration, 50 percent of the medicines prescribed by doctors are not taken as prescribed. And the basis for its indifference. The Medicine Reminder app is the simplest way to keep this from happening and to remember medicine. This program allows you to create customized profiles to automate and track your prescriptions, ensuring that you never miss a dose. You may use it to add reports, establish appointments, and create healthy habits, allowing you to stick to your routine without having to look at the clock. Under the Report page, the app gives a predefined condition list for patients' convenience, which helps them keep track of their medical history. Use the finest Medicine Reminder app to keep track of your medications.

Problem Formulation

Patients have a noteworthy difficulty in that they forget to take their medications in the exact amounts and at the correct times. Drug adherence, or the degree to which a patient takes the proper medicine at the right time according to a doctor's prescription, has recently been a hot topic because multiple studies have shown that non-adherence can have a negative impact on the patient, resulting in higher medical costs. Medicine Non-adherence is a prevalent, complicated, and costly issue that leads to poor treatment outcomes and drains health-care resources.

Literature Review

MedsLog, which is only available for iPhone users, is a very complicated software in comparison to others. Users will need to spend much more time with the software in order to fully comprehend its capabilities. The system's fundamental flaw is that it features a "consumed by" box where a user is meant to enter his username in the provided space. Despite this, the system displays "no persons." The proposed system, on the other hand, is more user-friendly because it is designed for people of all ages. As a result, rather than wasting time learning how to use the software, time can be spent actually using it. Users are able to manage their profiles without difficulty.

MotionPHR Health Record Manager, which costs \$10 for the full version on Android and iPhone and \$2 for the Lite version on iPhone, receives a worse rating from customers due to issues with the reminder system and a data backup service.

Medsy is another software that tries to provide a drug reminder system, although it is limited in capabilities. If a user is supposed to take medication three times a day, but this software won't let them set an alarm for it, they'll be disappointed. However, we have attempted to address these issues in our work by allowing users to create multiple alarms and notifications.

Wedjat fulfills a similar purpose. A user will receive a daily health care tip, as well as applicable videos and blogs, as a result of the health care module's adoption in our system.

As a result, the proposed effort aims to solve all of the aforementioned drawbacks of other existing apps.

Methodology

Medication reminders aid in the reduction of medication mistakes and inappropriate dosages.

Setting Alarms and Receiving Notifications are the two aspects of the Reminder system.

Module for setting alarms: It aids in the remembrance of drugs. The user can enter information about his drug regimen. The date box allows users to input the starting and ending dates for which they must take medicine. The time field displays the time of Medicine, and the alarm will sound at that moment.

The user can add information about the medicine, such as its name, purpose, and other details. The database will save all of the information from the medicine schedule. They can select an alarm ringtone from the ringtones saved in the devices.

Get Notification module: Once the alarm is set, the patient will receive a notification when it is time to take the medicine. They have the ability to activate or deactivate this as needed. They can turn off the notice if they don't need it.

1. Storing the doctor's prescription- The user must fill out the form with the specifics of the doctor's prescription, which will then be stored in MongoDB.

2. Adding Reminders for Taking Medicine- The user is first authenticated using Google, after which the user fills out a form that is then utilized to add reminders to the user's schedule based on the time slot and recurrence given in the form.

3. Displaying a list of medicines and their dosages at the set time- When the user takes a medicine, he receives a notification on his device that includes a list of medicines to be taken, as well as their particular dosages. The user must enter the following information to configure the app.

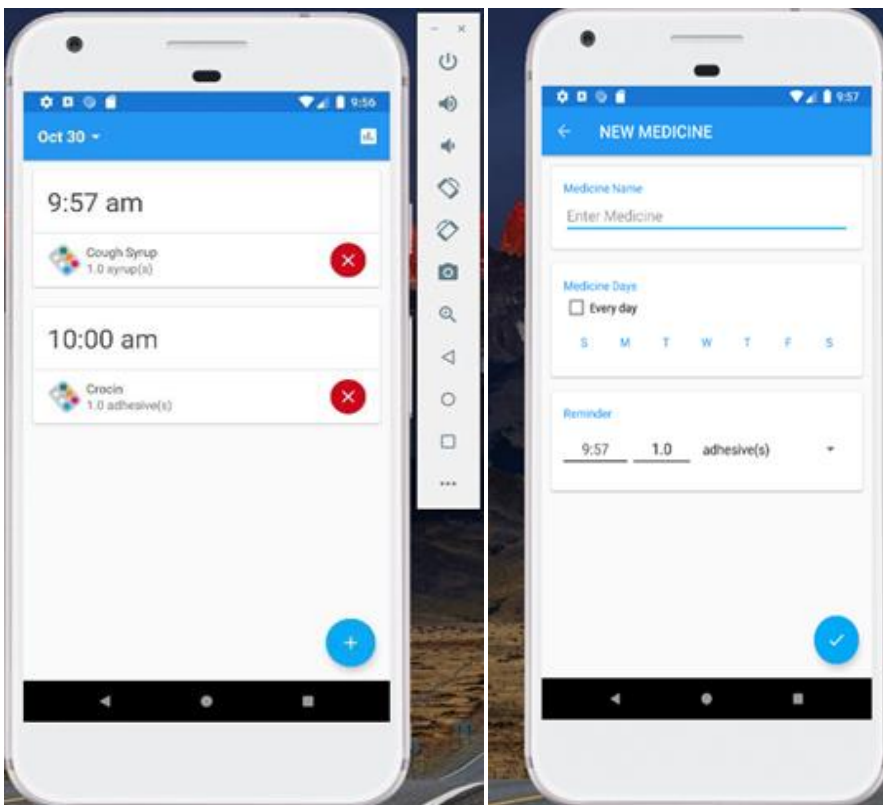
A. Name of the Patient (helpful for future conventions)

B. Age of the Patient (helpful for future conventions)

C. Prescription Duration- The time period for which the patient has to take the medicine.

D. Number of Medicines- field is compulsory to generate further options.

E. Names of the Medicines-to keep track of what medicines are taken by the user and to remind the user.



V. Solution Proposed

Med-X is an Android software that reminds patients/users of their prescription dosage on a daily, weekly, and monthly basis. This program is mostly geared toward an older demographic, with a focus on accessibility and usability. The user will be able to enter their medical information and prescriptions, and the app will notify them through push notification when it is time to take their medicine. While developing Med-X, we took in mind the widespread loneliness of senior persons.

The software has a solid user design, a pleasant user experience, and it includes a number of innovative features that help with medication adherence. We looked at the results of a survey of persons of various ages.

People in their latter years are more likely to forget their prescription schedules and appointments. The users will receive a schedule of medication consumption times, as well as a description of the medicine, as well as the medication's start and end dates.

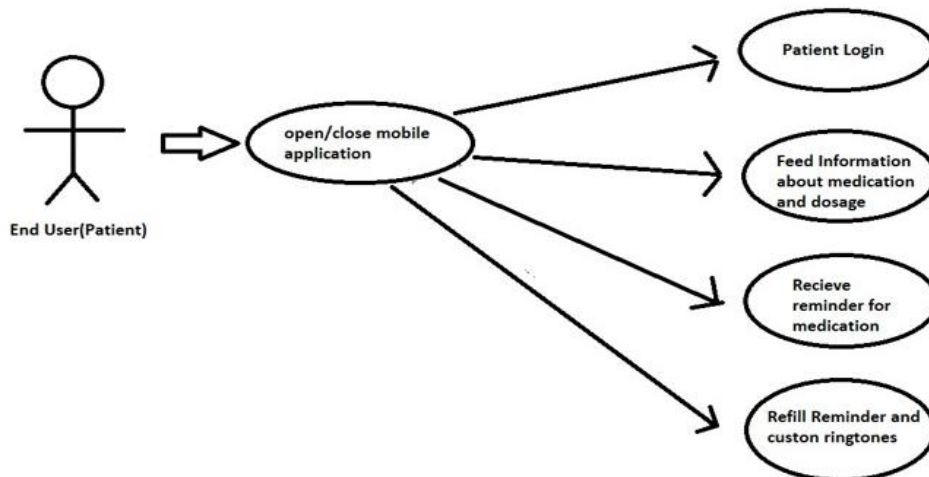
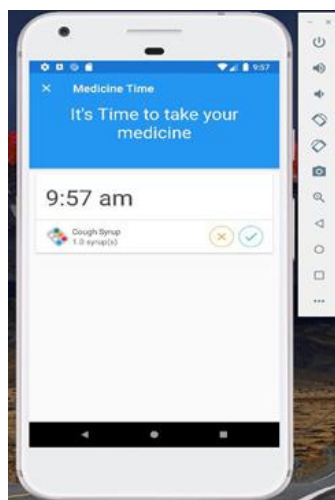


Figure 1: Use-Case Diagram

Conclusion

Multiple Medication Reminder Systems have been developed on different platforms. A lot of these systems require special hardware devices to remind the patients about the medicine in-take timings. Purchasing new hardware devices becomes costly and more time and money consuming. So in the given work an attempt has been made to implement an economical system, easily accessible and improves medication adherence. Medication non-adherence decreases the effectiveness of treatment and imposes a pocket burden on health care systems



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References

Reference Format for Journal Paper

[1] ArduMed - Smart Medicine Reminder for Old People MayureshWaykole, Vatsalya Prakash, Himanshu Singh, Nalini N International Journal of Scientific & Engineering Research, Volume 7, Issue 5, May-2016 650 ISSN 2229-5518

Reference Format for Book/Book Chapter

[2] McKenzie SJ, McLaughlin D, Clark J, et al. . The burden of non-adherence to cardiovascular medications among the aging population in Australia: a meta-analysis. *Drugs Aging* 2015;32:217–25. 10.1007/s40266-015-0245-1 [[PubMed](#)] [[CrossRef](#)] [[Google Scholar](#)]

Reference Format for Conference Paper

[3] <https://developer.android.com/>

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