

Android Based Medicine Reminder System

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Abstract

In Modern healthcare, most of the errors have been identified in Out-patient medication administration. These medication errors are caused due to under or overdoses and forgot to take medicines at the proper time. Because of these types of errors recovery from the diseases are getting delayed and the patient is suffering for more time. In this paper, we introduce an Android-based application for the patients. This application will remind the user to take proper medicines in proper quantity at the proper time. Because of the android application portability could result in theft, so data security requirements need to be incorporated in the design process.

My smart medicine reminder system is designed for, but not restricted to, helping old people in taking care of themselves in taking their medications at the correct time and in the correct amount. It has been observed that people in general neglect their health and give preference to other things than taking their medicines. This is also the reason they forget to take their prescriptions on time. Many health maintenance organizations, health practitioners and medical researchers have realized that increased use of patient reminders can significantly increase the treatment of chronic illness and delivery of medical services to the patients who need it. Several organizations have themselves started implementing the patient medicine reminder system in the health care field and it is currently being implemented in several hospitals in the western countries to see if the method reaps any benefits. It is known throughout that Over the Counter (OTC) medication taking patients should take prescriptions in a limited or prescribed quantity at the respective times they are supposed to take their medications. However, many patients and especially old people, do not take their medicines in the correct quantity. They either take overdose of medicines thinking it will help them heal faster, or they fear the doctor has prescribed a larger quantity than required and take under dosage of medicines.

In Med Reminder application, information on the device is encrypted and stored in the database, it is difficult to obtain illegitimately while still making confidential data easy to access. In this application, the data in databases residing on an external secure digital card (SD card) of Android devices are encrypted. In this paper, we discuss the technologies and methods used in Android notifications and reminder system to design medicine in-take schedule to set a reminder.

Keywords: Android; Medicine; Reminder; External Storage; Encryption