

## **Wellbeing Involves Incredible Concern without a Decision Medications**

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**Abstract** Great Wellbeing is confidential of each and every individual. Since the earliest reference point, Wellbeing involves incredible concern. Some need to, without a decision, keep a sound way of life by taking meds. Numerous patients find it hard to require meds at a legitimate investment because of different reasons like distraction, occupied plan, advanced age, and so forth. This happens most normally with individuals taking drugs day to day which brings about clinical non-adherence. Clinical Non-adherence is an intense issue as it can prompt different wellbeing related issues. The progression in portable innovation has empowered different strategies to tackle these sorts of issues by planning and fostering an application which patient will find it simple to convey along. In this paper, we plan to construct an Android-based application, that will cover significant highlights, for example, Medication Update, Medication Restocking Alert, Caution Framework, and so on. This framework has a rich GUI and simple route which can be utilized by individuals of each and every age. This application will emphatically affect individuals as it will go about as a sidekick that can show updates and inform the client to take the pills on time supporting clinical adherence and further developing wellbeing.

**Keywords:** Medicine Reminder, Android App, Medication Adherence, Alarm System.

### **INTRODUCTION**

There is a well-liked saying that health is wealth. Health is one of the foremost important things for many individuals, just because not having healthy life can cause a miserable life. Health care is a basic need of each person. The category of patients involves all citizenry - teachers, students, businessmen, housewives, children, and senior

citizens. Today's life is filled with responsibilities and stress. So, people are susceptible to diseases of various types and we must make ourselves stay fit and healthy. People these days are very busy in their daily routine life schedule. If they're affected by any disease/illness then they must require the right medicines in proper quantity at the proper time. For this purpose, there should be some resource for the patients which can remind them about their medicine intake schedule.

Nowadays, everything is technology-driven and we rely on gadgets especially smartphones. Today Everyone uses a smartphone. Mobile Applications have made our lives much easier and luxurious. The most widely used facility in mobile phones is Reminders. People use Reminders for pretty much everything because of the busy schedule that they have.

Medical non-adherence is the major problem in the Health System. People usually forget to take their prescribed medications in due time and proportion. There could be many reasons for being forgetful such as busy schedules,

Alzheimer's disease, loss of memory, Old Age, Dementia, Stress, Anxiety, Incorrect administration of medicines, medication complexity because of Multiple Pharmacy and Polypharmacy, incorrect timing, incorrect quantity, and lack of knowledge.

In this paper, we are introducing an Android Application that will remind the users to take proper medications at the proper time by providing them with reminders that will reduce Medical non-adherence. Besides, everyone these days has a mobile phone, and using this app will be easy and hassle-free.

This application named "MEDI-MINE" will provide various features such as:

- Reminder System for the users to take pills at a fixed time. The user will be alerted with a notification for the medication intake.
- Notes Feature for the user to add important notes or details about an appointment.
- The caretaker will be introduced in case of any emergency or for sending the restocking details of the medicine that is about to be finished.

### **BACKGROUND AND RELATED WORK**

There are various applications available in the market which serves the same purpose. This section reviews some literature regarding the design, development, and implementation of medication reminder mobile applications for patients.

Deepti Ameta et al., in their paper “Medication Reminder and Healthcare – An Android Application” describes a mobile application that focuses on the doctor and patient interaction. In this app, the patient need not worry as the doctor inputs the medicine reminder in the app for him/her. There is a section that provides healthcare tips and articles for medication adherence. It will give a reminder to the user as an email or message as chosen by the user.

Bhadane Ashwini et al., have presented a Mobile application that uses the OCR technique to recognize the prescription of the doctor in their paper “An Android Based Medication Reminder System Based on OCR Using ANN” where it will automatically recognize the medicine and store it in the app. It will then give a reminder based on the recognized text.

“Smart Phone-Based Medicine Intake Scheduler, Reminder and Monitor” is a mobile application called Wedjat developed by John K. Zao et al., that can remind its clients to take the right medications on time and keep an in-take record for later surveys by medicinal services experts. Wedjat has two important features: (1) it can caution the patients about potential medication sedate/tranquilize

nourishment associations and plan an intake plan that maintains a strategic distance from this antagonistic cooperation’s; (2) it can amend an intake plan naturally when a measurement was missed. It additionally demonstrates photos of the medication and professional video concise in-take guidelines. Moreover, this application reminds a patient just once and has its platform dependent.

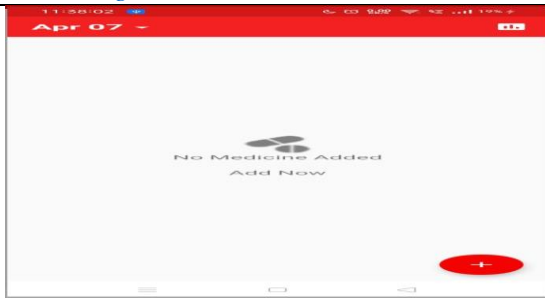
Arvie Carpio et al., have developed a smartphone-based software application “MedTouch: Towards the Development of Smartphone-based Software Solutions for Mobile Health Care” that enables patients to manage their vital statistics information, medical prescriptions including reminder alarms, the transmission of medical information to health care providers including photographs, and application settings.

### **PROPOSED SYSTEM**

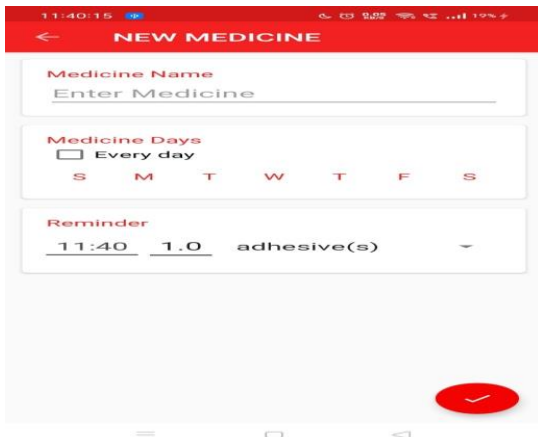
The proposed application is compatible only with smartphones running on the popular Android-based operating system. In this system, the users will have to input the medicine details in the medicine reminder section. The user will be asked for the details of the medicine to be stored. The application helps to remind patients or users to take their medicine in proper due time and proportion using an automated alarm ringing and notification system. It has various modules such as Medicine Reminder, BMI Calculator, Health and First Aid Tips, Searching Nearby Hospitals, nearby Medicals, and nearby Doctors, Care Taker Information, Notes, Medicine Reminder, and Update Profile.

The inputs taken by the cine

The application has a rich GUI, which will automatically attract more users. As soon as the user installs the app, following the instruction pages...



**fig(1)**



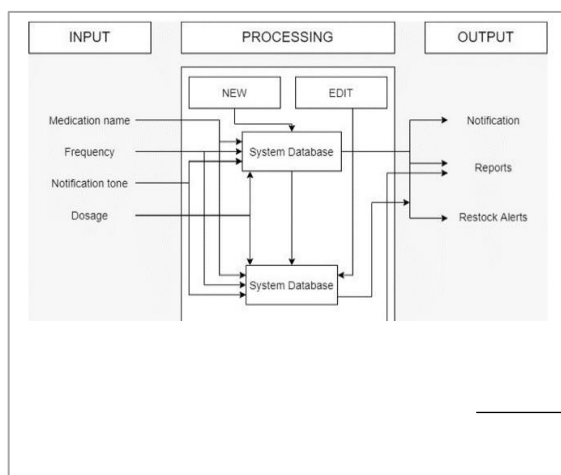
**Fig(2)**

This fig (2) shows how to set reminder for particular medicine at particular time.

In this section the user needs to fill the medicine name dose and alarm timing and days.



**Fig(3)SYSTEM BLOCK DIAGRAM**



**Fig. 8: Block Diagram of the**

## CONCLUSION AND FUTURE SCOPE

In this age of science and technology, people are getting easier and convenient ways to solve their everyday problems. There is cutting-edge competition between app developers. Currently, there is various Medicine reminder application available on Play store with different features. Since the Patient finds it very difficult to keep track of their medication especially if it involves intake of pills on daily basis due to several reasons such as heavy workload, forgetfulness, and alterations in day-to-day behavior can also have a significant result on whether patients remember to take their prescribed medications. For this reason, we came up with our application “MEDI-MINE” which provides everything in one place. The user can set a reminder to remind you the medicine in the busy hectic era. It is built with a simple yet rich GUI that can be used by people of any age group. The system that we are implementing will also alert the user about the refilling of the medicine that is about to get over and also add caretaker details for refilling the medicine. Using this app, can in a way change the way people react to situations and avoid medical non-adherence.

In the future, we plan on working extensively for the betterment of the application by including features such as Online Appointment Booking and Online Medicine Ordering. This way Health care can be improvised using Mobile Technology.

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