A MINI-PROJECT REPORT ON

"MEDIFY"

Submitted in partial fulfillment of the requirement for the award of

Bachelor of Engineering

In

Computer Science and Engineering

Solapur University

By

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Under Guidance Of

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SOLAPUR - 413006

(2018-2019)

CERTIFICATE

This is to certify that the Mini-Project entitled

“MEDIFY”

Is

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Abstract

In today's daily life many of people are unaware of their health respective to theirs diseases with respect to they having a particular medicine courses. The patient may not follow the correct schedule for their medicine course regarding the particular diseases, etc. So to overcome this problem there should be some facility for the patients which will remind them about their intake of medicine.

So to overcome this we need a solution such as every patient will intake their medicine with respect to their particular course and follow the correct schedule of medical course. Here "MEDIFY" will provides patients to prepare a medical course schedule, where all the patient should get the proper idea about medicine schedule, and get the notification for their intake medicines for a user. The user can view a notification with a check box and he/she will proper notify to app for their intake medicine. Then the user will be able to take a proper medicine at a proper time to overcome the particular disease and enjoy a healthy life, and user will observe how much they will aware of their intake medicine.

Introduction

People are busy in their daily life routine schedule. If they are suffering from any kind of diseases their duty is to take proper medicine at proper time.
There should be some facility for the patients which will remind them about their intake of medicine.
Due to this we were introducing our android application for the patient this will remind users to take medicines at proper time by automatically setting remainder in the mobile.

Goals:

- The main objective of this project is to design an dynamic, responsive Medical Application for alerting a patients for their intake of medicines.
- User can schedule for take the medicine with the approximate medicine course.
- App will alert at the intended time with respect to initial medicine course.
- This app will contents all the course which included by the user.
- First of all getting the accurate medicine course from the user and the app will get the notification to medicine schedule of a user.
- The notification which will getting the user at proper medicine time it will also includes the check box for clarifying the user will taken medicine or not.
- If user will take the medicine at that time then user thick on that checkbox else user will cross out the checkbox.

Then user will compare the actual medical course and user intake medicine schedule, at observe how much aware regarding the medical course.

MEDIFY can perform three primary functions:
a) Issue medicine in-take reminders
b) Provide medicine identification and in-take directions
c) Maintain medicine in-take records

Background

Few months ago, my sister gave birth to my Nephew. She is a working woman. After three months she had to go to her work. Due to this she was unable to schedule the diet for baby. So that the health of both mother and baby was affected. They were not able to take their medicines. She was not able to able to perform the precautions given by Doctor. So due to this we get an idea about a system which can remind people to take their medicines time to time. The remarkable problem is that patients forget to take the proper medicines in proper proportion and in proper time.

At first we get an idea about Web Page but web page is not easily accessible or handy for the patients. And android platform is much bigger than web page. So we decided to make an Android Application on medicine reminder and we named it as “MEDIFY”.

With the help of this application, the users can assigns their particular schedules about medicines including tablets, syrups, injections ,etc.

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Technologies Used

When it comes to developing great applications and software for Android, it's absolutely crucial that the right technology be used from the beginning. We have used Android, Java, SQLite.

Android Studio:-

- Android Studio was announced on May 16, 2013 at the Google I/O conference. It was in early access preview stage starting from version 0.1 in May 2013, then entered beta stage starting from version 0.8 which was released in June 2014. The first stable build was released in December 2014, starting from version 1.0.

- Android Studio is an "up and coming" IDE that provides a wide variety of different features. It is emerging as a great alternative to Eclipse that is perfect for certain kinds of projects. We always centralize your project on the IDE that is correct for it!

- Android Studio supports all the same programming languages of IntelliJ e.g.Java ,C++, and more with extensions, such as Go ; and Android Studio 3.0 or later supports Kotlin and "Java 7" language features and a subset of Java 8 language features that vary by platform version."

Java:-

- Java is one of the most established programming languages when it comes to developing dynamic content. On the Android platform, Java is faster and more secure than it is on many traditional desktop implementations, allowing us to unlock its full power.

- **Java** is a general-purpose programming language that is class-based , object-oriented , and specifically designed to have as few implementation dependencies as possible. The syntax of Java is similar to C and C++, but it has fewer low-level facilities than either of them.

SQLite :

- It is a relational database management system contained in a C programming library. In contrast to many other database management systems, SQLite is not a client-server database engine. Rather, it is embedded into the end program.

- SQLite is a popular choice as embedded system software for local/client storage in application software such as web browser. It is arguably the most widely deployed database engine , as it is used today by several widespread browsers, operating systems , and embedded systems (such as mobile phones), among others. SQLite has bindings to many programming languages.

Description and Working of Project

Now a days many people are very busy in their work so were ignoring their medicines at the particular time, in future the count will be increase. So this app have more scope in future.
This is the project where user can schedule their notification settings and alarm for a particular medicine course. The app is totally helps the user to get notified for the intake of the medicines, which are scheduled by a particular user.

First of all the patient should install the app. Then a user get a particular window for adding schedule the medicines. The app user (patient) have to set an schedule for their particular medicine course, then they have to set the medicine time and date for the intake. After the setting of time and date they have a option of repeat and set repetition interval and then according to their schedule given by the user the app notifies the user about the medicine to intake.

We have also provide text-to-speech for the blind patients, and vibrations for deaf, etc.

Whenever the app reminds the user about the medicines, a checkbox is displayed for whether the medicines are taken or not. If medicines are taken then click on respective button.

Screenshots & Results

Fig: 0.Splash Screen

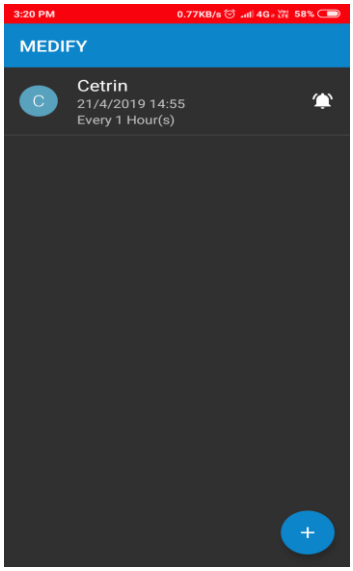

Fig: 1.Home Page

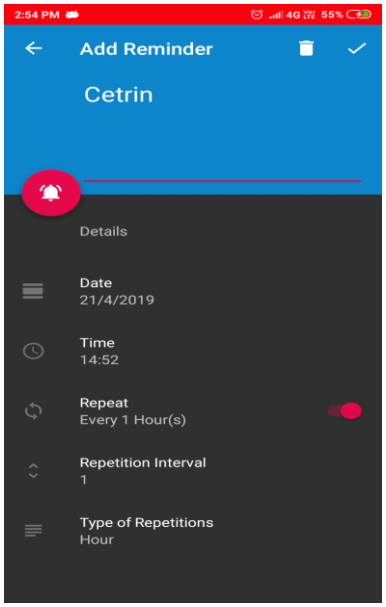

Fig: 2.Setting Reminder

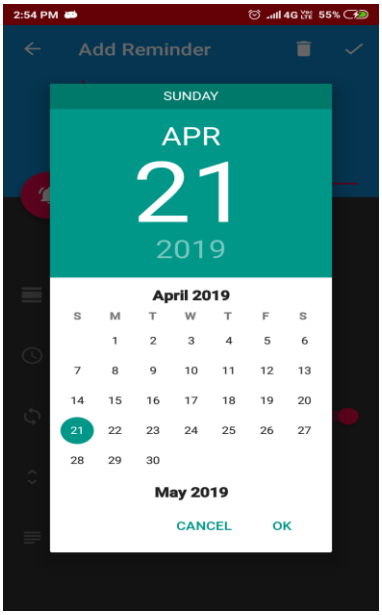

Fig: 3.Setting Date

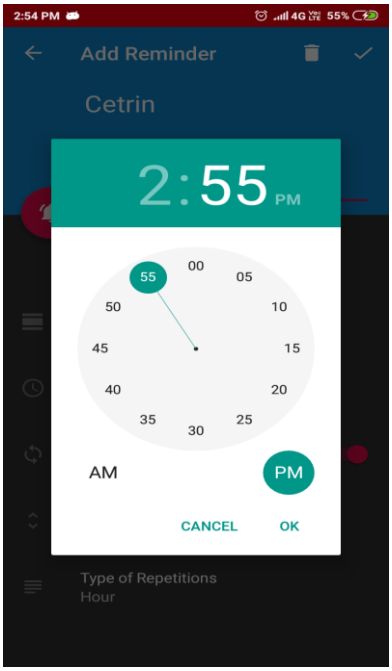

Fig: 4.Setting Time

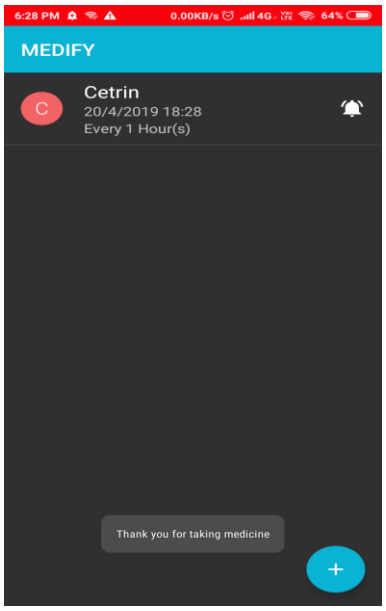

Fig: 5.Reminder all set with Medicine Name

Fig: 6.Checkbox

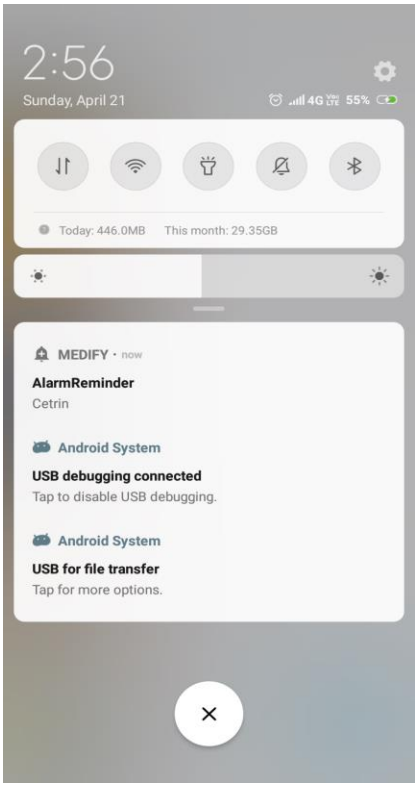

Fig: 7.Notification

Advantages and Disadvantages and Applications

ADVANTAGES:

- Easily accessible
- It can store the data for your medicine
- It provides a quick and easy way of schedule and remember the medicine after notification with alarm.
- It also increase a body immunity to intake medicine at a proper time.
- Different types of medicine can be stored
- It is small scale app ,so it does not consume large memory

DISADVANTAGES:

- During the setting a schedule first time the patient should remember all course and set the schedule.
- We does not have database of medicine names, so the user should schedule their medicines manually.

Applications :

- It is mostly useful for the aged people because they might not remembering the medicine names and their course.
- Vibration and notification facility regarding tablet intake for deaf patient.
- Text to speak of tablet names for blind people.

Conclusion/Summary

Currently there are many medication reminder systems which are operable manually. Due to manual work, the available system becomes more time consuming. So in the given work, an attempt has been made to implement fully automatic medication reminder system based on handwritten character recognition. The proposed system will only set the reminders in the built-in calendar application of the mobile. This reminder reminds user about their medicine in-take schedule. The scheduled reminder will not suggest any kind of medicine, dose of medicine, etc.

Future scope

The mobile application are getting more scope in future, It is more important for each every patient.

It is mainly designed for old or senior citizens , so they can get the knowledge for handling the mobile applications and mobile device.

In today's life each an every person is busy in daily life schedule and lots of work, so this app will remind them for medicines in their busy life schedule, in future this count will be increase for their busy schedule of people and notifying them for medicines.

In future we may planning to increase the features in this mobile application like **WATER REMINDER** and **STEP TRACKER**, etc.

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