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Review on Mobile Application for Medicine Reminder

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ABSTRACT

It is an Android-primarily based totally software with an automated notification device. It specializes in health practitioner-affected person interaction. Patients do now no longer want to do not forget the time in their dose as they will be reminded for the medicine as per scheduled by the doctor. Notifications may be set for plenty medicines and times, consisting of the date, time and outline of the medication. Patients will in all likelihood be dispatched a notification through e mail or message to the device in their choice. They may be detected in keeping with the health practitioner's illness. Many clinical reminders had been advanced in which new hardware is needed however in our paintings we've got attempted to increase a device this is economical, time-saving and capable of assist medication

Keywords: Android, Automatic alarm, Reminder system, Notification System, Medicine scheduler

1. INTRODUCTION

The affected person class consists of all human-teachers, students, traders, housewives, youngsters and all of us. Life nowadays is complete of obligations and stress. That is why humans are vulnerable to diverse illnesses and it's far our obligation to preserve ourselves match and healthy. If the affected person remains at home, she or he may also want a person to attend to him or her, however while she or he isn't always at home, out of town, or far from home, In our evolving and technology dependent lives we rely entirely on gadgets especially smart phones. Today everyone has a smart phone. With this we will have the opportunity to make better use of technology so that it will be useful to you. And it plays an important role in our daily lives and helps us stay healthy in many ways.

The notable problem is that patients forget to take the right medication in the right amount and at the right time. Medication compliance, which refers to the extent or extent of taking the right medication at the right time as directed by a doctor, has recently emerged as a serious problem as many studies have suggested that non-compliance can be serious. Impress the patient and thereby increase medical costs.

So we're introducing an Android software aimed toward reminding sufferers in their dosage time via notification through email or message with a view to live in shape and healthy. This software is targeted on individuals who neglect about to take their medicine on time. Doctor can add pill reminder for a particular patient. After putting the pill reminder the patient will receive email or message as per scheduled by doctor. As patients can receive notification view email or message their will be less possibility of error.

It is a life-saving, money-saving and time-saving software that is straightforward to apply and offers an exquisite person interface.

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2. METHODOLOGY

Pill Reminder: Smart Phone Application software that seeks to keep away from drug management errors. Many pharmaceutical structures were advanced primarily based totally on exceptional systems and concepts. The use of fitness associated programs is growing however there are numerous issues associated with their functionality. My Pill Reminder is an android application through which patients can receive notifications over email or via message. The patient can forget at what time which medicine to take and that is very bad for patients health, as he should take medicine at right time as prescribed by the doctor. Most of the times this happens, by using Pill Reminder app doctors can see list of patients and by clicking on any particular patient doctor can see a form to add pill reminder to that patient.

The doctor needs to give pill name, duration of the medicine, Daytime(morning/afternoon/night) and intake advice(before meal/after meal) and as per the options selected by doctor the selected patient will receive email or message. On the other hand after log in patient can see list of history of pill reminders. As the patient is reminded through email and message there is less possibility that the patient will forget to take the medicine on time.

3. ANDROID APPLICATION

Pill Reminder is an android mobile application for patients that can remind patients timely about the medication as scheduled by the doctor via email/message. The patient can download the application and register himself on the Pill Reminder Application. The doctor will be registered to the application by the admin due to security and verification issues. The doctor will receive login details on registered email using which he/she can log in to Doctor Portal. After successful login doctor can see the count of patients registered and the list of patients. The doctor can click on a particular patient and add a pill reminder for that patient. While adding pill reminders the doctor can select Daytime morning/afternoon/night and intake advice as before meal/after meal and according to theselection by the doctor, the patient will receive timely reminders on email/message. The patient on other hand can see a history of the pill reminders.

4. RESULTS AND DISCUSSION

The application offers reliable reminders, a good user interface, a good user experience, and it supports many new features that are able to adhere to the medicine. We surveyed 100 people, including people of all ages. About 40 percent of the total population surveyed benefited from a doctor-wise survey of the findings. Again location based (area war) aging was a good choice to find a 58 year old doctor. People under the age of 55 found the feature of getting notification through email and message. Older people are more likely to forget about medication time as well as their appointment. Users will receive notification for medicine, instructions via message or email. If the phone does not run out of battery, the system also notifies via email and other registered numbers. This is beneficial as people under the age of 45 are more likely to go to email. The feature of automatic alarm was found to be beneficial for 100% of the total population. Young people are very concerned about new healthcare awareness and are interested in learning about new medical techniques that are evolving every day. So this feature is useful for young people. That's why the system as a whole is performing well in our survey and it really supports medicine adherence.

Comparison with other systems:

Med Slog, an app for iPhone customers only, is a completely complicated utility in comparison to others. Users want to spend extra time information the capability of the software program properly. The most important hassle with the gadget is that it has an "intake" field wherein your username have to be stuffed with inside the area furnished with the aid of using the user. Still, the gadget shows "no humans". The proposed android applications, on the opposite hand, is extra user-pleasant as its miles designed for humans of all ages. Users don't have to do any hectic configurations at all. Patient can check history of pills for which he was reminded in past. Other applications provide push-notifications for which the user have to provide registration fee as this feature doesn't come for free. On other hand our application focus on making the application cost efficient by using free of cost services like email and mobile messaging. The UI is pretty simple to use so no need to give extra time to understand the application. The patient may forget the schedule of medicine

As soon as he reached home. So our system gives access to doctor itself to add pill reminder for the particular patient which will lead to no error on intake of medicine.

Comparison with other systems:

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Budget additionally serves the equal purpose. When a dose is ignored consistent with the doctor's instructions, it could be routinely corrected in the 'in take' schedule. With the implementation of the healthcare module in our system, the consumer may be furnished every day healthcare with applicable motion pictures and articles. The proposed paintings consequently tries to put off all the indexed risks of different systems.

Table 1. Comparison of the App with three existing Apps

	Med Helper App	OnTime RX App	Dosecast App	Medication Reminder and Healthcare
File Size	18.4 MB	8.4 MB	6.2 MB	5.5 MB(minimum)
Stored Appointments	Yes	No	No	Yes
Logs Medication	Yes	Yes	Yes	Yes
Choice of Alarm Ringtones	No	Yes	Yes	Yes
Different Sound per Drug	No	No	No	Yes
Can send Notification through email	Yes	No	Yes	Yes
Discuss wise searchibg of Doctors	No	No	No	Yes
Location based Searching of Doctors	No	No	No	Yes
Providing Healthcare tips/articals/videos and quotes	No	No	No	Yes
Providing contact detailsand availability timings of all Registered Doctors	No	No	No	Yes

5. CONCLUSION

Many MEDICAL reminder systems have been developed on different platforms. Many of these systems require special hardware equipment to remind patients of the medications they have taken over time. Buying a new hardware device is expensive and costs more time and money. The work therefore attempts to implement a system that is economically, readily available, and improves drug adherence. Non-compliance with medications reduces the effectiveness of treatment and places a financial burden on health care systems. Patients will receive a medication schedule with the medication from time to time Description, notification by message or email. The planned reminder will not prescribe any type of medication that is not prescribed by a doctor that guarantees the safety of the patient and will avoid the wrong dose. Patients can also see list of pills for which he wad reminded in past. The doctor can view all the patients and add pill reminder to particular patients accordingly.

We plan to cognizance on enhancing the general overall performance of the system. Also, there could be a focal point on interplay among docs thru video calling and thru the health practitioner's side. A few greater approaches to stick to remedy could be focused.. A few greater approaches to stick to remedy could be focused.

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