

# Healthcare System With Emergency Alarm Based on Android

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**Abstract-** In this paper contains the android based emergency alarm and healthcare management system. We know android phones are used most of the peoples. In the emergency alarm when user in problem and activate the alarm, then family and friends get emergency alarm message , they can immediately rescue the user. In the healthcare management system, it manages the health records of the user. The user can send his physical condition and get prescription on the usersphone .It also contains the life reminder system which reminds to user to take medicines on time and so on

**Keywords-** emergency alarm, health records, prescription, life reminder, Android

## I. INTRODUCTION

In todays world of growing social pressure most of people are facing the health related problems especially old or aged people who have sub-health. It is important to build health security system for people and deployed on the mobile phones Normally the emergency alarm system which is deployed on separate device and they are connected to the Hospital service by wired, wirelessly. But there is disadvantage of this system: once going out of the coverage , the system wont work anymore.

A healthcare system has two functions. One is life reminder and another is online medical. But most healthcare management system is separated from emergency alarm system According to this disadvantage deploy the system on Android phone is better choice.

There are some advantages of the cell phones , first is that the cell phones are convenient to carry.Second is that open operating system on cell phones , such as iOS or android Third is with using cell phone user can call their family and or friends. Fourth with the help of GPS their location can be track

Our system has two main functions emergency alarm system . The emergency alarm system activate manually or automatically. The alarm action will send emergency message and calls to the users family or doctors. The message that send

it includes location information of user. The healthcare management system which can help to user things like doctors prescription by linking to the Hospital Information System. Doctor can push the prescription for each individual patient

The emergency alarm and healthcare management system consist two parts: The client and the server. The client the server. The client is deployed on android-based all phones .The server is deployed on computer and operated by doctor. It contains two subsystem: The emergency alarm system and The Healthcare Management System

## Workflow Diagram -

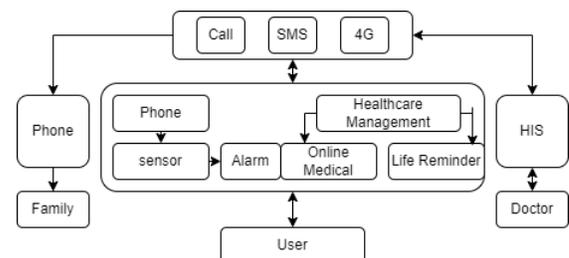


Fig. 1 Workflow Diagram

Now mobile phones support Internet access, so when the user is not feeling well, he can log in the system, their status will be sent to the server. The server receives the user's information and reminds the on-line doctor that the on-line user needs treatment. According to the user's conditions doctor sends the prescription to the user's phone in order to protect the user timely to get treatment. After the prescription is sent to the user's mobile phone, the life reminder alerts the user to take medicine on the time and so on. The work flow is shown as Figure 1.

## II. SYSTEM ARCHITECTURE

In the fig. 2 shows client side contains two parts: The emergency alarm system and The healthcare management system .These two parts are based on Android system and designed for mobile devices.

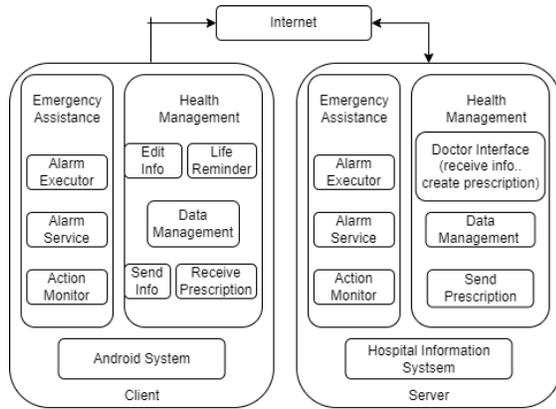


Fig. 2 System Architecture

The emergency alarm system is build for user to make emergency alarm at emergency occasion. It contains three functional components .It works together and take decision to start alarm, then alarm executor is used in when it decides to send alarm

The Healthcare Management System is the second part of the client is work as reminder application , to remind user to have medicines and can also be doctor for user by linking Hospital Information System . With client has two parts for first one is Emergency Alarm System is interface between the doctor and patient . When the alarm receiver receive the alarm message , it sends out message to alarm. And second part of server is healthcare management allow doctor to create prescription and send it to the users device

**III. IMPLIMENTTION**

In this section , the detailed designed and implementation of the system are presented.

**A. Software Login and Register interface**

This part of the system gives the to convenient way to register and login himself. It is an android application , and consist of three modules . First is Action monitor

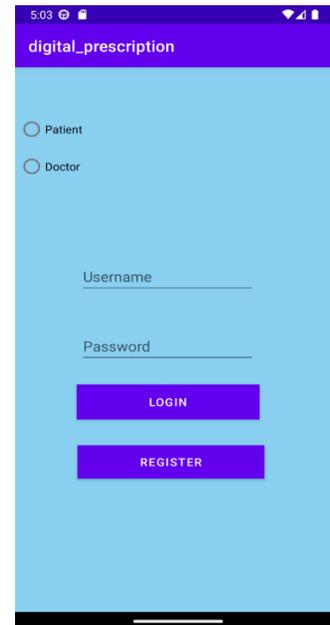


Fig 3 Login and Register Interface

**B. Registration of Doctors**

In this interface we can see that doctor can register themselves by using the credential. i.e. name, hospital name hospital designation, email, password .The email and password is the important credential to login the doctor again. After the registration successfully completed the success pop comes out.



Fig 4. Doctor Registration Interface

**C. Login Interface**

In this login interface we can see in fig 5 that Doctor can login. If the credentials of the doctor are correct

then it will login the doctor and show the pop up of login successfully. It takes email and password for login

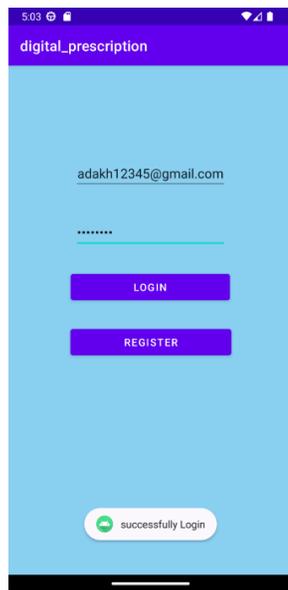


Fig.5 Login Interface

#### IV. CONCLUSION

We thus present an android-based emergency alarm and healthcare management system, which is practically deployed on android-based phones. The system can give emergency help at anywhere and anytime, can remind user for medicines on time Response by the doctor's prescription, and can provide the function of seeing a doctor to the user

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