

## **Health Care Portal : Survey Paper**

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### **ABSTRACT**

*This system is based on doctor patient interaction. This system is based on real time android application. So, it provides graphical user interface. This system is easily handled by all peoples. The patient can easily take appointment online. So, not required to be present physically.*

*In this system, there are some modules like doctor, patient, medical, pathology, blood bank, etc. Patients can communicate with doctor for primary consultancies. In addition, we provide medical and pathology services.*

**Keywords— Android SDK, HCP.**

### **I. INTRODUCTION**

The establishment and improvement of Health Care Portal (HCP) system is a very important requirement, especially now when the mobile communication technology is developing rapidly. Today, people are very much concerned about monitoring and keeping track of their individual health information [1]. With the rapid development of information technology, so that we develop a doctor-patient interaction system on Android platform to meet the needs of the patient and provide doctors more efficient and convenient means of communication with patients.

This app and website serves the purpose of establishing an online interaction between a doctor and patient [7]. Generally, when doctors are not available or not reachable to patients and vice versa, this app will facilitate both the patients and doctors to interact or communicate and seek some help from the doctor regarding patient's health condition, concerns, etc.

Always it may not be possible for a patient, to meet doctor in hospital/clinic due to some busy schedule and similarly for doctor it may not be possible to give an appointment for the patient to clear minor issues or doubts that the patient has. In such cases it will be helpful to have a medium of online interaction where the patient can quickly ask the doctor some questions.

The establishment and improvement of doctor-patient interaction system is a very important requirement, especially now when the mobile communication technology is developing rapidly [8]. Through the connection

between mobile terminals and specific service, both doctors and patients are able to obtain required data to achieve a better interaction.

## **II.PROPOSEDSYSTEM**

The HCP system is to provide better healthcare to people anytime and anywhere in the world in a more cost-effective and patient friendly way. Therefore, increasing the patient care applicability, improved patient monitoring devices, for that, mobiles are required[5].Providing health monitoring at home, is particularly useful for patients, who are in a situation to live alone. Whenever a patient's health becomes worse, a message is sent to the doctor and also to the patient's relatives so that anaction can be taken.

This system that provides a method to store patient's history and helps in continuous monitoring of health conditions.The doctor can easily monitor the patient's health history by using his smart phone or android device whenever and wherever he wants to.In addition, alarms can be included where the alarm system can remind the patient to take drugs on time, next checkup date and drugs levels[2]. This system will store and display daily test results, diet and medicine taken, and get feedback from the doctor and also it includes notification for drugs in taking times and next appointment details.

## **III.EXISTINGSYSTEM**

In today's world, if someone wants to book appointment we need to call in a clinic or personally go to that place and book the appointment. This consumes the precious time of the patient. Also, if the doctor cancels his /her schedule, the patient does not come to know about it unless he/she goes to the clinic.

## **IV.IMPLEMENTATION**

Develop a doctor- patient interaction system for the needs of the patient and to provide communication with patients by the doctor's more efficient and convenient means of communication with patients[6].

Design a Doctors Directory system to keep contact details of doctors in mobile devices for easy and faster connectivity at the time of health issues.

- 1.Develop and implement a Doctors Directory system.
- 2.To create an Android mobile application to provide a User Interface to interact with the system.

## **SECURITY**

The development of internet has made great changes in the life style and job activity of people, organizations and institutes. For the data security we use DES algorithm. The data security is one of the common issues of legal and real entities. Assurance of the lack of access of unauthorized users to sensitive data are the most important challenges regarding data distribution in internet. Cryptography has been used to protect information,

consistency of sent and received data, authentication of identity and these principles should be observed in each type of cryptography. Protecting information and confidentiality means that only the sender and receiver understands the content of message and it is possible other people can see its content but its content should be ambiguous from their view.

## V.SYSTEMARCHITECTURE

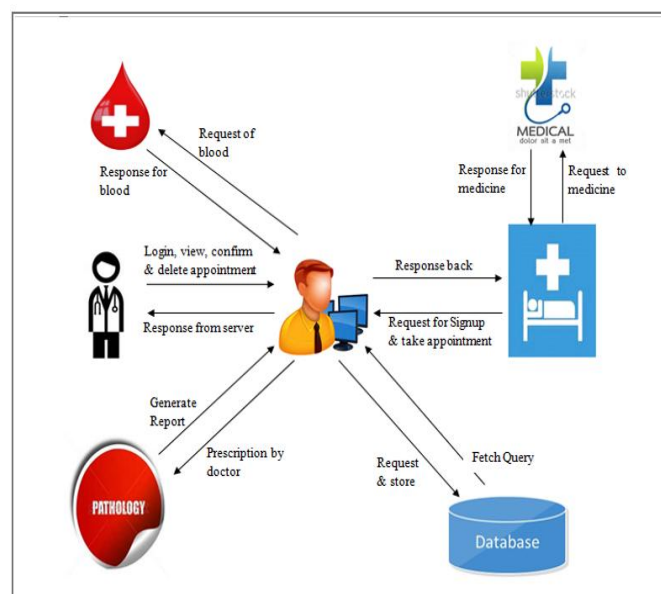


Fig. 1.SystemArchitecture

## VI.MODULES

### A. Admin module

In admin module, admin controlled all information about the system. Admin have authority to manage all modules.

### B. Doctormodule

Firstly, doctor register and after registration doctor get its own username and password.Doctor can view all the details of the patients. Also, they can confirm and delete the appointments.

### C. Patientmodule

Patient firstly registers to the system then they can take the request for the appointment. They can also view the doctor's information and doctor' schedule. As per there requirement they can select the doctor.

***D. Pathology module***

Pathology firstly registers to the system. After that pathology fill information about lab and if pathology have any documents like certificate, other lab related documents then they can submit it in pdf or text in it. Then doctor can prescribe the patient for the test then admin send the request to the pathology. After test report is generated and send back to the admin.

***E. Blood bank module***

Blood bank firstly register to the system. In the emergency state, if blood is required then request sent to the blood bank then blood bank is check the blood is available or not and send response to the system.

***F. Medical module***

In Medical module, patient send the request for the medicines. Then it sends the reply to the patient.

**VII. CONCLUSION**

This system aims to simplify the task of the patient and the doctor. It will make patients more relaxed and save the time of the patient. Also, the patient can get the doctor of his choice through various filters used in the application.

The research presented some of the challenges that currently face patient and staff alike where poorly executed and inefficient scheduling systems are concerned. For refining the core operations in outpatient clinics in respect of health applications, paper-based methods are used, resulted in low quality and efficiency as well as longer waiting times for both scheduled and walk-in patients.

The system is portable and can be easily installed and used on any mobile phones supporting Android OS. It also provides an interface which is easy to understand by the users and greatly helps in adapting to the use of this system. Main advantage of this system is doctors have the full history about the patient's health status. Patients will hold their data where ever they go. The proposed system will also help Medical Doctors to speed up diagnosis and treatment of patients through the advice and interaction with the patient.

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