ISSN(Online): 2320-9801
ISSN (Print): 2320-9798

International Journal of Innovative Research in Computer and Communication Engineering

(An ISO 3297: 2007 Certified Organization)

Vol. 2, Issue 1, January 2014

Android Application for Doctor's Appointment

Prof. S. B. Choudhari[1], Chaitanya Kusurkar[2], Rucha Sonje[3], Parag Mahajan[4], Joanna Vaz [5]

Associate Professor, Computer Dept, TCOER, Pune, India[1]
Research Scholar, Computer Dept, TCOER, Pune, India[2]
Research Scholar, Computer Dept, TCOER, Pune, India [3]
Research Scholar, Computer Dept, TCOER, Pune, India [4]
Research Scholar, Computer Dept, TCOER, Pune, India [5]

ABSTRACT: In today's world if someone wants to book a Doctor's Appointment we need to call in clinic or personally go to that place and book the appointment. This consumes 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. The objective of this project is to build a system that will ease the process of booking appointment of the doctor. The patient will book the appointment through his/her mobile phone. The doctor will come to know the number of patients he has to attend whole day. The system will save patient's as well as doctor's time. It will save the receptionist's paper work. The system will prove to be useful for doctor as he can check his appointments whenever and from wherever he wants from his mobile phone.

Keywords: Android, online appointment, doctor-patient interaction

I. INTRODUCTION

The establishment and improvement of doctor-patient interaction system is a very important requirement, especially now when the mobile communication technology is developing rapidly. The advantages of mobile web can be made full use of to make up the time and distance gap between doctors and patients and to provide fast and adequate medical services. Through the connection between mobile terminals and specific service, both doctors and patients are able to obtain required data to achieve a better interaction. Android is a Linux based open source operating system which is mainly used in portal devices with excellent performance thus making its market share growing. The platform, Web services and database technology are all gradually maturing, so that we can 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 [1].

II. LITERATURE SURVEY

Here we present a doctor-patient interaction system based on Android. Its excellent performance on mobile terminals makes it possible that patients are able to access the hospital server to obtain the necessary suggestion about the symptoms and interact with the doctors on their own mobile terminals, while doctors can track patients whenever and wherever possible or make a diagnosis of alert depends on the monitoring data from the hardware of mobile terminals.
Paper describes the needful things that the Doctor has to do every day. In this paper, we solve this problem by proposing a new system based on android technology, through that the doctor can manage his/her appointments from anywhere. In addition to this the patient who is unable to go to the clinic and take the appointment can also book his/her appointment from a mobile phone within 2-3 min. Our solution is to build a system that will help the needful people or every person who wants to save their precious time. Any needed information can be supplied at the time of installation. This removes the need for a technician to install software and enormously quickens the implementation of a patient monitoring system.

III. FEASIBILITY STUDY

The feasibility study is major factor which contributes to analysis of system. In earlier stages of S/W development, it is necessary to check whether system is feasible or not. There are 4 aspects of checking feasibility. Detail study was carried out to check workability of proposed system, so the feasibility study is system proposal regarding to its

ISSN(Online): 2320-9801
ISSN (Print): 2320-9798

International Journal of Innovative Research in Computer and Communication Engineering

(An ISO 3297: 2007 Certified Organization)

Vol. 2, Issue 1, January 2014

workability, impact on organization, ability to meet user requirements & effective use of resources thus when application progresses, it normally goes through a feasibility study & risk analysis.

IV. EXISTING SYSTEM

The existing system consists of booking a doctor's appointment through the website. The website is called 'practo.com'. The website is very useful as it provides various features. The appointment confirmation is given by a sms. The main drawback of this system is that, it is a website and one requires a very good internet connection as loading of web pages may take a long time. Along with this, there is another android app available on playstore but it is a paid app, hence everyone cannot afford to use it.

V. PROPOSED SYSTEM

The proposed system consists of two panels: Doctor and Patient. The users will first have to download the application and install it in their mobile devices. Once installed, this application will remain into the device permanently until the user deletes it or uninstalls it. The patient will have to register into the application for the first time. On registering, the patient will receive a username and password. The patient can use this username and password for logging into the app each time he uses it. After logging in, the patient will have to select a filtration type. The filtration is done on two bases: Area wise and Specialty wise. After selecting the filtration type, the doctors list will be displayed. The patient can select any particular doctor and view his profile. Also the patient can view the doctor's schedule and look for an appointment according to his convenience. The patient will then send a request for appointment. The doctor can either accept the appointment or reject it. The database will get updated accordingly and the patient will get a confirmation message. The add-on to this system is that the patient will receive a notification 2 hours before the actual appointment. This will be very useful in case the patient tends to forget the appointment.

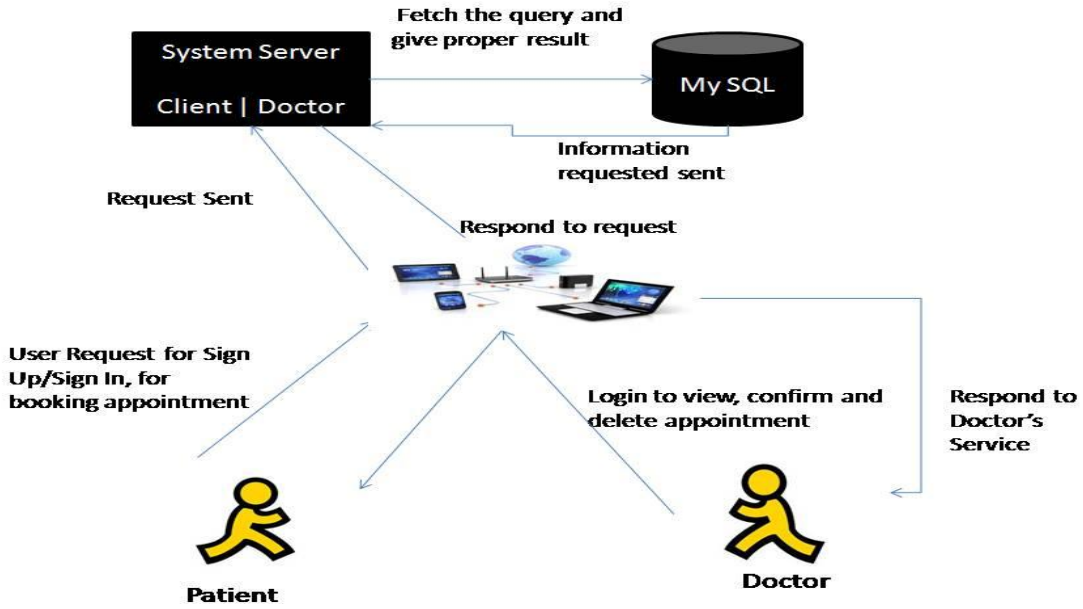

Fig. 1 System Architecture

VI. EXPERIMENTAL STUDY

Initially mobile phones were developed only for voice communication but now-a-days the scenario has changed, voice communication is just one aspect of mobile phone. Android is a Linux based open source operating system. Around

ISSN(Online): 2320-9801
ISSN (Print): 2320-9798

International Journal of Innovative Research in Computer and Communication Engineering

(An ISO 3297: 2007 Certified Organization)

Vol. 2, Issue 1, January 2014

75% of the mobile market share is covered by android. Every day more than 1 million new Android devices are activated worldwide. Android gives you a world-class platform for creating apps and games for Android users everywhere, as well as open marketplace for distributing them instantly.

VII. RESULTS AND ADVANTAGES

The application will prove very beneficial to doctors and patients. The application is a freeware, user friendly and easily accessible. Also it will save time, reduce the effort and paperwork of both patient as well as doctor.

VIII. CONCLUSION

This system aims to simplify the task of the patient and the doctor. It will make patients more relaxed as they do not have to stand in a long queue to fix their appointment and also book an appointment according to their choice in a more convenient way. Doctors need not worry about managing their appointment. Though you are not going to clinic for taking an appointment, your appointment gets booked from anywhere and however you want. This helps to save the time of patient. Also the patient can get the doctor of his choice through various filters used in the application. The doctor is also able to view his day to day appointment list which makes it easier for him to plan his schedule. This application will help to optimize the work of patient and doctor.

REFERENCES

1. Mark L.Murphy, "The Busy Coder's Guide to Android Development," United States of America, Commons Ware, LLC,2008.
2. CHENG Chun-Iei, PAN Ze-qiang, "Research of Chinese traditional medicine embedded information system based on android platform," Manufacturing Automation, pp 136-138, January 2011.
3. Chao-Tung Yang, Yen-Yu Chu, "Implementation of a Medical Information Service on Android Mobile Devices," New Trends in Information Science and Service Science, 72-77, 2010(4).
4. Dimitris Tychalas, "Planning and Development of an Electronic Health Record Client based on the Android Platform," Panhellenic Conference on Information, 3-6, 2010(14).
5. Frank Sposaro and Gary Tyson, "iFall: An android application for fall monitoring and response", 31st Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 1:6119–22, 2009.
6. http://www.developer.android.com
7. http://www.androidzoom.com/android_applications/health_and_fitness/blood-pressure-control_nln.html