

Android Application for Healthcare Appointment Booking System

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Abstract— Nowadays, if a person wants to get a doctor's appointment he have to go to the doctor's clinic or need to call to book an 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. 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 in a day. The system will save patient's as well as doctor's time. It will save the paper work of both doctor and patient. The system will prove to be useful for a doctor as he can check his appointments whenever and from wherever he wants from his mobile phone.

I. INTRODUCTION

The formation and enhancement of the doctor-patient interaction system is a very necessary requirement, especially now when the mobile communication technology is developing rapidly. The advantages of the mobile web can save the precise time of the patient and decrease the distance gap between doctors and patients and 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 the 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.

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. PROPOSED SYSTEM

The proposed system consists of two panels: Doctor and Patient. The users will first have to download the application from Google Play store and install it on their android mobile devices. Once installed, this application will remain into the device permanently until the user deletes it or uninstalls it. For the first time, the patient will have to register into the application to get the 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 Doctor's Specialization list will appear. The patient has to select the doctor according to his requirement and then the doctor list will appear after that 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 notification on his mobile

phone. Before the actual appointment is booked, a patient will get notified either it is approved or canceled.

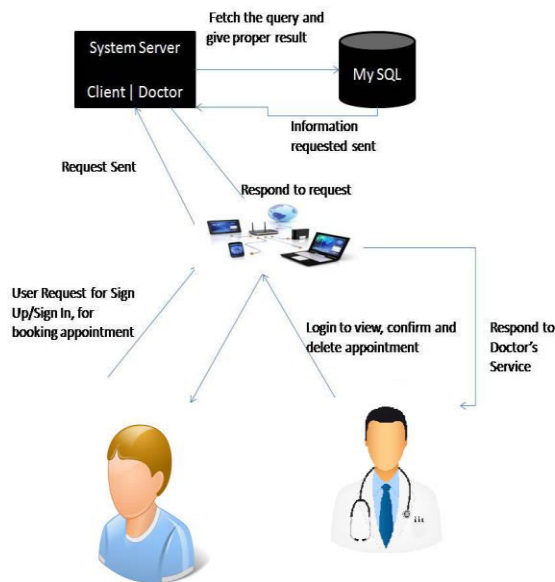


Fig: System Architecture

IV. ADVANTAGES

- It will save time, reduce the effort and paperwork of both the patient as well as the doctor.
- The system focuses on improving the rate of attendance at healthcare appointments.
- The application will prove very beneficial to doctors and patients. This application is freeware, user-friendly and easily accessible.
- It supports an easy implementation as it is less expensive, trustable, adaptable, accessible to anyone with smart phone and do not require separate devices, packaging or extra hardware

V. LIMITATION

- Availability of android device.
- Internet connection.

VI. CONCLUSION

This application simplifies the task of both the patient and the doctor. It will be very beneficial to the patient because now they don't have to stand in a long queue to take their appointment and can also book an appointment according to their choice in a

more convenient way. Doctors will not worry about managing their appointment. The patient will not have to go clinic physically and can book an appointment from anywhere 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. Also, the patient can choose among various doctors in specific specialization. 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.

VII. SYSTEM RESULT



Fig 7.1 Login Activity

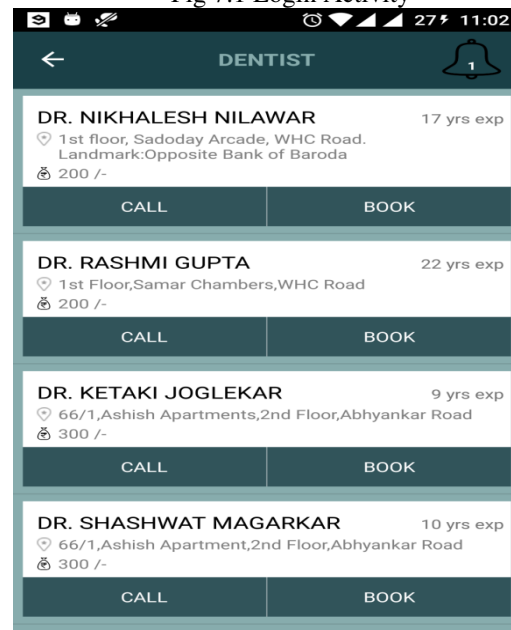


Fig 7.2 Dentist List Activity

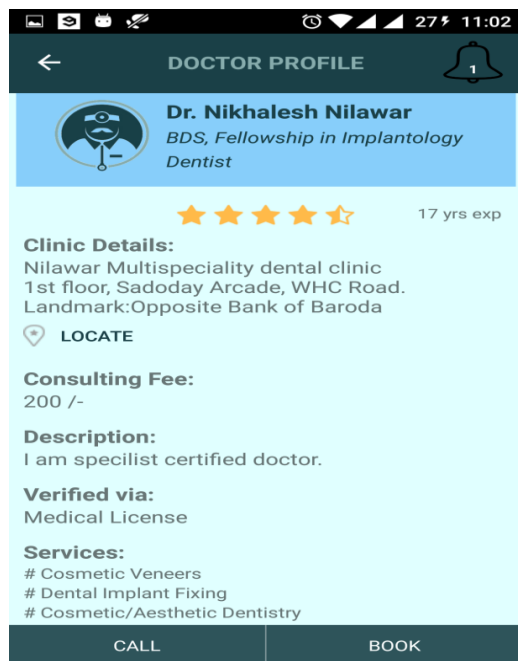


Fig 7.3 Dr. Profile Activity

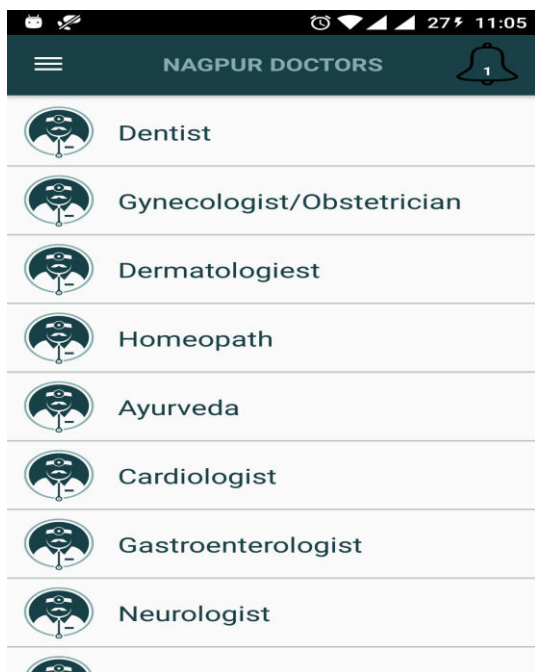


Fig 7.4 Dr. List Activity

- We can also include the additional feature in an application like patient will be able to search the doctor based on symptoms.
- We can develop this application in other platforms like iOS and Windows.

IX. REFERENCES

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VIII. FUTURE SCOPE

- The proposed system is Doctor's Appointment Booking System for Nagpur City only. We can enhance this system by expanding the application and including more cities in the application.