"QUETUS" (Android Based Application for Informing Actual Appointment Time)

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Abstract— There is too importance to doctor and patient interaction, especially now when the web services are used by all the peoples even through mobiles, smart phones. The advantage of using web services for providing the services remotely to the patient. Also one of the biggest advantage of providing services across web is that it can help to manage the time. Through the connection between clients and server, both the doctor and patients can communicate efficiently with required data. For enhancing the interaction among the doctor and the patient we can use the web services, database technology which can be run on android smart phones for accomplishing the patient needs. So, we are creating an android based application for taking appointment of the doctor. This app will also show queue status in hospital and will send SMS to the patient's registered mobile for awaking the patient about his turn in hospital.

Key words: QUETUS, Appointment

I. INTRODUCTION

The project aim is to build an android based application for taking an appointment of the doctor remotely by using android smartphone. The patient can also choose doctor according to their physical disorder. The application will also sends the SMS to patient as well as doctor. The doctor will get SMS about patient who took his/her appointment. Patient will get SMS for awaking the patient about his turn in queue.

In this paper we used android studio. It is used to build the application. We also used Firebase service which is provided by android studio. Firebase is used for creating the database and handling the database.

II. SYSTEM ANALYSIS

Existing System - Today if patient wants to book a Doctor's Appointment we need to call in clinic for appointment or personally go to the clinic for taking appointment. In this system the biggest disadvantage is that it takes the precious time of individual who needs an appointment. Also if the individual who is in critical condition for him it is not possible to go and get appointment from doctor. Also if the doctor cancels or postpones his / her schedule, the patient does not get this information until he / she goes to the clinic or the message is convey by the particular nurse or compounder. Till the time message is convey the patients are sitting in the waiting hall for their turn.

A. Proposed System

Hence to overcome this disadvantage, we have developed an application which is more beneficial for the patient. In this application the patient is now able to fix the appointment with the particular doctor. The SMS will be received by the patient and the doctor which will contain the information regarding the appointment.

For the Doctor following will be the SMS:
"Patient Mr. XYZ has fixed an APPOINTMENT WITH YOU AT XX:XX TIME".
For the patient following will be the SMS:
"YOUR APPOINTMENT WITH THE DR. IS FIXED AT XX:XX TIME".

In this application. Time for fixing the appointment with Doctor will start as the particular Doctor logs in. Here it is mandatory for the first 10 patient to be available in waiting hall. And as the patient no. 7 leaves the Doctor cabin, the SMS will be given to patient no. 11 that:
"Kindly notify your no. is about to come"

- Current No.:
- Your No.:
- Estimated time to meet Dr.:

Here in this application timely update will be provided to the patient regarding his appointment. If there is any problem with the Doctor i.e., if he/she is in any operation or is not available for some time then the update SMS will be forwarded.

III. LIST OF MODULES AND SUB-MODULES

A. Doctor

- Sign Up or Login.
- View or edit his profile.
- View Appointments.

B. Patient

- Sign Up or Login In.
- View or edit his profile.
- Make An Appointment.
- View his/ her Appointments.

C. Receiving of Notification

- Sending SMS to Doctor that who has fixed an appointment.
- Sending SMS to patient that your appointment is fixed with Doctor.
- Sending an update SMS regarding it status for appointment or any other issue.

IV. MODULE DESCRIPTION

A. Doctor

- If the Doctor is the 1st time user then he/she will have to sign-up. He/ She have to fill all the details which are asked by the app to be an authorized user for a particular module.
- If the Doctor is already an authorized user then he/she will need to only enter his registered e-mail and password to sign in.

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- After sign in the Doctor is now able to view or edit his profile.
- The other facility which the doctor can use is that he/she is now able to view all the appointments which are fixed by patients and is now able to control them.
- The appointment time for the doctor will start as the specific Doctor sign in.
- After fixing an appointment the patient will receive a SMS that

"Patient Mr. XYZ HAS FIXED AN APPOINTMENT WITH YOU AT XX:XX TIME"

B. Patient

- If the Patient is the 1st time user then he/she will have to sign up. He/ She have to fill all the details which are asked by the app to be an authorized user for a particular module.
- If the patient is already an authorized user then he/she will need to only enter his registered e-mail and password to sign in.
- After sign in the Patient is now able to view or edit his/ her profile.
- The other main facility which is provided to the patient is that now he/she can fix an appointment with the particular doctor to whom he/she wants to consult.
- The timer for fixing the appointment will start after the Doctor logs in.
- After fixing an appointment the patient will receive a SMS that

"YOUR APPOINTMENT WITH THE DR. IS FIXED AT XX:XX TIME"

- There is list of Doctors from where the patient can select to whom he wants to consult.

C. Receiving of Notification

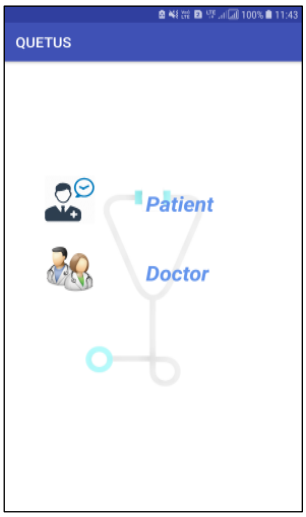
- When the appointment is fixed by a patient the SMS will be sent through the patient's registered mobile number to the doctor automatically.
- If there is any delay in meeting time the patient will get notified.
- First 10 patients are mandatory to be in queue as there may be possibility of taking less time in examining the patients but as the 7th patient will enter the cabin or his examination is over then SMS will be send to the 11th patient that he/she needs to be present in the hospital.

V. PROPOSED WORK

Following are the outcome of the application which is developed:

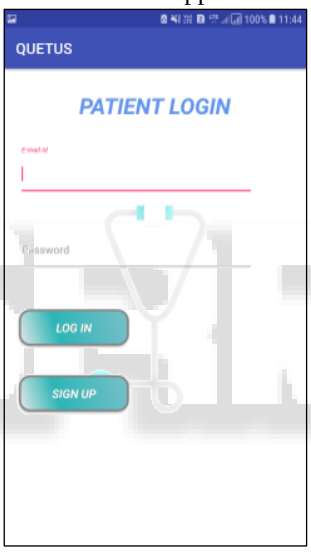
A. Main Page

Here there are two options whether the user is patient or doctor.



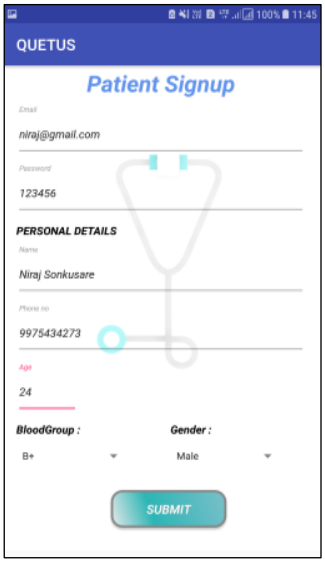
B. Patient Login page

If the patient is already user then he/ she need to enter his e-mail id and password to use the app.



C. Patient Signup page

If the patient is first time use then he/ she will have to enter the following details which are asked to finish sign up.



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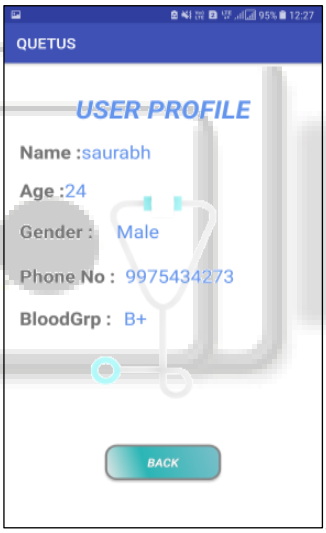
D. Make an appointment page

After the patient is successfully signed in he/ she is now able to fix an appointment with the doctor.

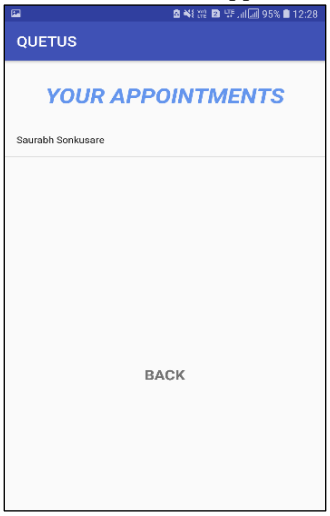
E. My profile page

The patient is able to view his details



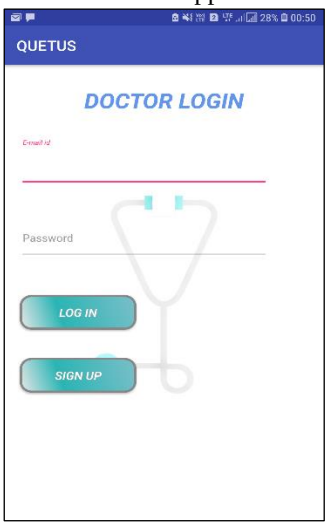
F. My appointment page

The patient is able to see this fixed appointments.



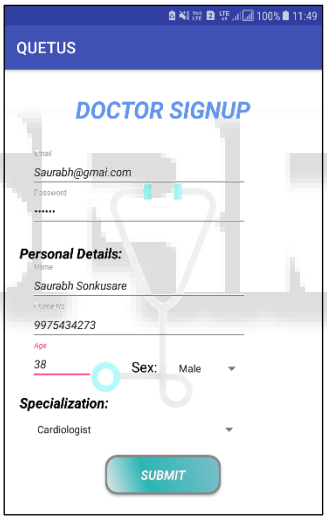
G. Doctor Login page

If the doctor is already user then he/ she need to enter his e-mail id and password to use the app.



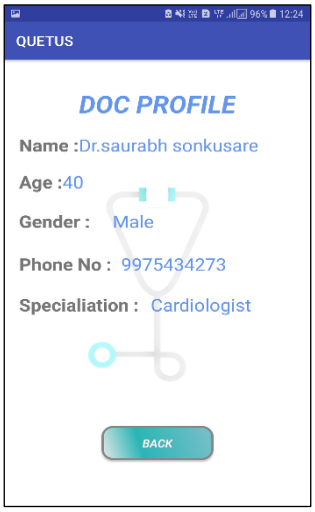
H. Doctor Signup Page

If the patient is first time use then he/ she will have to enter the following details which are asked to finish sign up.



I. My profile page

The doctor is able to view his details.



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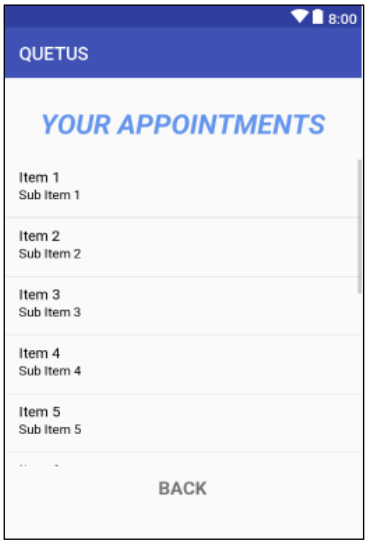
J. My Appointment page

The doctor is able to see this all his appointments with the patients.



VI. System Requirement

A. Hardware Requirements

- Android Smart Phone
- RAM 1GB minimum
- ROM 4GB minimum

B. Software Requirements

- Operating System: Android OS
- Version: 4.0 (Kit-Kat) or higher
- Windows OS 7 or higher
- Android Studio

VII. Conclusion

The conclusion of the research or review paper is that the patient can utilize the time which he/she waste in sitting in waiting hall by doing some other important work. If there is any delay in meeting the Doctor, patient will get notified. This will be very beneficial for the senior citizens and those who are physically handicap.

Acknowledgement

At every outset we express our gratitude to our project guide Mr. Manish Goswami who shared his idea of developing such app which is beneficial for the senior citizens or physically handicap people. We are thankful to our project guide Mr. Manish Goswami for his encouragement, guidance and constant support for developing this application.

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