



DOC-TALK: Consult Doctors from Anywhere

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ABSTRACT: -

In remote areas like far villages if people want to consult a doctor, then the patient has to travel to a nearby city to consult a good doctor of their choice. As everything is going on virtual mode it is safer to consult doctors virtually. Hectic life and pack scheduling of people. Less concern about health issues. Giving up on treatment due to the long queue. Rural residents often encounter barriers to healthcare that limit their ability to obtain the care they need.

Key-Words: - Patients, Doctors, Mobile app, Appointments, Payment, Instant chat, Video call.

1.Introduction

In today's world where everyone is using a smartphone and where there is an app for anything and everything and we want to provide a simple solution to this problem with Doc talk. Doc talk is a platform for both doctors as well as patients. It is mainly targeted for people in remote areas in India who have to travel long distances to consult a doctor. For patients it's a simple user-friendly android application and for doctors it's an android application too where they can communicate with patients so they can communicate.

2.Problem Formulation

a.Less access to medical facilities in remote areas

As you can see in India, the number of village people who have access to medical facilities is particularly low.

In today's world where everyone is using a smartphone and where there is an app for anything and everything, we want to provide a simple solution for this problem with the help of our app.

b.Not all village people know English

We have designed and developed a mobile app for the users (patients), using which they are only a click away from consulting a doctor of their choice in Hindi language and voice modulated too.

c.It may become complex operating an app

Interface of the app is really easy and the user can operate it easily and its voice modulated which makes it less complex and makes it easy to use. The users can consult with the doctor through an audio or video call.

d.Rural areas not having access to services

access services such as primary care, dental care, behavioral health, emergency care, and public health services are not available.

3.Literature Review

Helping Doctors Application:

Helping Doctors Application app is targeted for people in remote areas where they have to travel long distances to go and consult doctors and they don't have much resources available and they face a lot of difficulty. The patient in the pain has to suffer a lot and people are less aware. They cannot reach the doctor from which they want to consult in case of emergency. There's no payment gateway for paying fees and the option for video call was not working.

Pocket Health Advisor:

In this era of pandemic people are afraid to visit hospitals and clinics so this application helps people because by the use of this application people can consult the particular doctor of their choice at their home without the fear of going out and being in physical contact with other people. There's no message channel, only chat bot and It contains high technologies which may be hard for few people to understand, mainly people in remote areas and villages who don't know much about technologies.

Telemedicine Application:

Telemedicine is an application which helps doctors and patients connect using video conferencing and chat. By using this application, users can consult the doctor of their choice at their home without facing the challenge of being in long queues at the clinic. There's no payment gateway and the application is complex.

Methodology

In India, providing In-person healthcare is challenging, particularly given the large geographical distances and limited resources, so using our app Doc-talk can save cost and effort, especially for rural patients, as they need not travel long distances for obtaining consultation and treatment. In this type of scenario and corona situations our app can provide an optimal solution for not just providing timely and faster access. It would also reduce financial costs associated with travel. It also reduces the inconvenience/impact to family and caregivers and social factors. Disasters and pandemics pose unique challenges to providing health care so Doc-talk will not solve them all but it will help in consultation in which medical practitioners can evaluate and manage patients.

Types of Users:

Patients - Patients are users with necessary permissions who can request online consultation with a doctor

Doctors - Users who provide online consultation to patients, view patients' profiles, lab reports, and schedule appointments

Appointment Scheduling:

Patients can browse doctors' profiles on the app and book an appointment with a doctor by looking at their profile.

a. Payments and billing:

Patients can pay online for their visits. The app will provide multiple payment options so that users can choose the convenient method.

b. Calls:

Face-to-face video consultations through app as well as in web browser.

c. Language Used:

Doc-talk is in Hindi language and voice modulated.

Table 1. Resources

1	Front-end	XML
2	Back-end	JAVA
3	Database	Firebase
4	Payment Gateway	Razor Pay
5	Meeting	Jitsi Meet
6	IDE	Android Studio

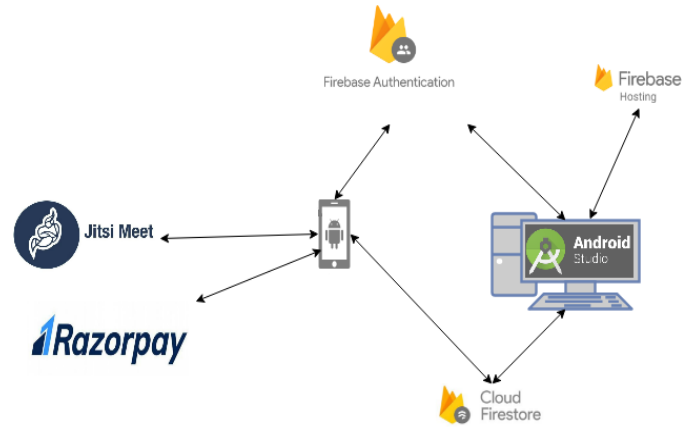


Fig.1 Flow chart

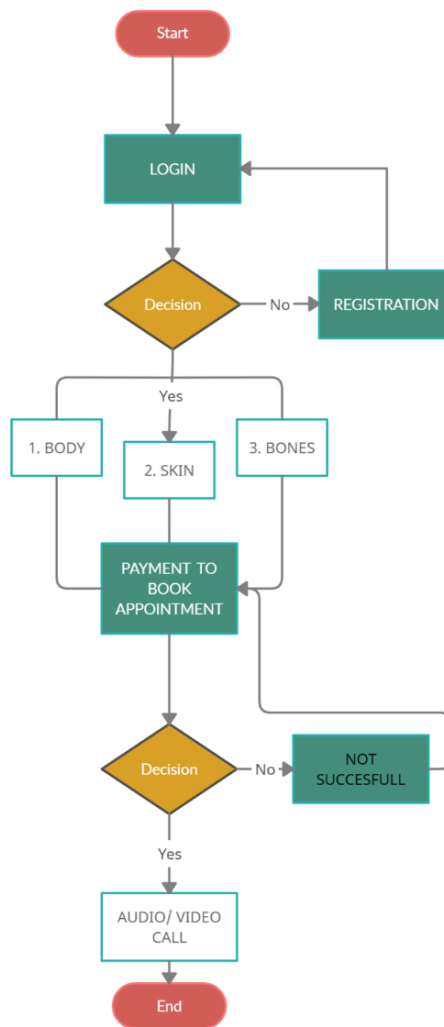


Fig.2 Flow chart

Result Discussions

People will be just one click away to be able to consult a doctor anywhere and anytime. They will not have to wait in long queues and travel long distances just to consult doctors. As this is the pandemic era, it is safer if we consult doctors virtually if our health condition is not too critical. In this way we would avoid unnecessary physical interaction contributing to make the spread of pandemic less.

Conclusion

This application was designed to be used as an online web portal doctors and android application for patients to create appointments for online doctor visits or consultations and the user interface of this application will be simple and minimalistic so that a user who is not well educated can also use the app. This application will be in English as well as in Hindi. Each and every operation in the app will be explained by audio.

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