Health For You

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Abstract:

Health for you is an application which acts like an interface between patients and doctors. All the patients can fill the application regarding the disease they have been suffering with. Any doctor who is interested in serving people for free can register using their license during the sign up process and give solution to the patient's disease. The doctor can examine the patient's details, write the prescription or second opinion and mail it to the patient. The problem was to create an application which efficiently does one of the most strenuous and huge tasks like connecting poor people with well-experienced doctors at free of cost and gain very valuable suggestions. Finally, the app should act like a natural hospital where the treatment is available free of cost from your living room. To avoid certain doubts to our doctors we have made a bunch of clarifications to our patients and users that we validate for a unique like license of doctor and make a search in our national database we register him as a doctor after having some typical steps of registration.

Keywords:

Sorting Algorithms, Adapter Views, National Database, Regex, Hash Maps, Validation, Tree

Maps, Online medication bills, Online consultancies.

1. Introduction

Health for you is cashless portal to provide our consultancies through doctors to our patients via our mobile application. Health for you purely works based on nonchargeable environment[1]. The main aim of this application is to provide effective suggestions in a portable manner. Future is a period of many pandemic situations like the present situation. People may be ceased to come on to the streets and visit the doctors. To avoid such kind of problems we came up with an idea of home consultancy through our application. All the patients can fill an application regarding the disease they had been suffering with. Any doctor who is interested in serving people for free can register and give solutions to patient's disease. The doctor can examine the patient's details, write the prescription or second opinion and mail it to the patient.[2] This application efficiently does one of the most strenuous and huge tasks like connecting poor people with well-experienced doctors at free of cost and gain very valuable suggestions. In existing system people are charged and they need to wait for the doctor appointment. Even online consultation are charged. It is not
easily accessible to everyone. To avoid such kind of disadvantages in the existing project this mobile application is developed in such a manner that our customers get benefits from this application. As our country is digitization in coming day’s smart phones are to be a common part of every being’s life so, we are developing this kind of applications to avoid huge crowded places.

2. Related Study

In existing systems as a matter of fact every online consultancy are charging a huge amount by providing more features and by upgrading to gold plan etc. We do not have any of that we clearly have come across every problem through the present online consultancies.[3] So, we have come up with a non-profitable application for us and non-chargeable for our customers. Everything is related to existing online mobile applications. In the proposed model there is no amount to charged and mainly we are using some effective algorithms and high security algorithms to validate the user or a doctor. Every doctor is validated with his unique license and it is validated against the national database of doctors to avoid fraud doctors. And then each doctor must be rated compulsorily such that we can assign customers to our best doctors and give a wonderful experience when they are using the application. The doctor can examine the patient’s details, write the prescription or second opinion and mail it to the patient[4]. The objective of this application is to provide the quality suggestions to poor people regarding the treatment for their diseases from well experienced doctors at free of cost. This app can be used by anyone around the world. The patients can fill an application regarding the sickness they had been suffering with. Any doctor who is interested in serving people for free can register with us and give solutions to patient’s disease. The doctor can examine the patient’s details, write the prescription or second opinion and mail it to the patient. This application efficiently does one of the most difficult and huge tasks like connecting customers with well experienced doctors at free of cost and gain their valuable suggestions.

2.1 Process Model

![Iterative Model](image-url)
2.2 Architectural model

![Architectural Model](image)

3. Proposed Model

The doctor can examine the patient’s details, write the prescription or second opinion and mail it to the patient. The objective of this application is to provide the high quality suggestions to poor people regarding the treatment for their diseases from well experienced doctors at free of cost. This app can be used by anyone around the world. The functions are divided according to the function types.

1. One user (patient) can fill, edit his details along with the scanning, X-ray etc., reports and save it.

2. Another user (doctor) who can see the patient’s reports, analyze and send their suggestions to the patients through the email.

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4. Experimental Setup

Health for you experimental setup is in Android studio. This mobile application is implemented in java language. Each algorithm useful for application is coded in java language. There are various algorithms used in this application is vast. We used Tree Maps to store the best doctors based on their rating and validation of doctor is done with the browser in the form of JSON format. We displayed the doctors data in the adapter view to consume less space and use less memory for the mobile device. We have two broad tabs divide in our application one for doctors and other for patients some of the experimental screen shots of our mobile application is shown below…

4.1 Layout

Figure 3: ER Diagram

Figure 4.1

Figure 4.2
4.2 Data Flow Diagram

Data flow diagram is unlike flow chart. This diagram helps to understand the entire experimental setup of the application. In this app we start with patients and doctor’s registration and after validation of doctor details it displays the patient information who want to consult him then he selects the patients to consult one after the another. The patient registration is quite different compared to the doctor’s. After entering his/her data it is registered in apps database and it validates the user when he/her exit’s the app. After consulting he/her can view the prescription an exit the app. There may be payment portal for the medical bill payments in the future as an update feature.

5. Result Analysis

Previously there were government hospitals to provide free treatment. But now a days government hospitals are not up to the mark in the matter of keeping the hospitals clean and tidy and the main factor is most of the skilled doctors are moving their base to the private hospitals to secure their future for their families. So, the skilled doctors are less in government hospitals and patients are showing less interest towards government hospitals because the equipment provide there is not as good as the private ones.Not all people in India can afford for the doctors in private hospitals
and following the disadvantages of government hospitals they are forced to visit government hospitals because they can’t afford high rates in the private hospitals. As the consultancy fee is also quite high in private hospitals and including the medical bills the prices would be sky rocketing. By keeping in the view we planned this project to be helpful to all classes of people including poor.

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6. Conclusion:

The Health for you application is now complete and patients can use it to expose their problem disease through reports while doctors can analyse and give response to it. The next step would be to increase the features of the application by including medical facilities. Over all we can conclude that our application can connect people with experienced doctors at free of cost and gain very valuable suggestions. Finally, the app should act like a natural hospital where treatment is available at free of cost.

7. Future Scope

Using this application, patients can fill the application giving the details of their disease and files like scanning, X-ray. At the same time, doctors can see the patient’s reports and send their suggestions to the patients through the email. There is an option for every patient to edit their details. Tackling following concerns:

Concerns about information privacy: Concerns have been expressed about the possible implications for privacy and confidentiality when material related to patients is stored in one's personal device.

Superficial learning: Some researchers have demonstrated apprehension that these devices might enable learners to access information very rapidly. This may inhibit the "internalization of knowledge," which is a traditional part of medical education, leading to a potential for "superficial learning."

Trusting information sources: Concerns have been shown about how learners should navigate the swarm of information available from the devices, how they should find "good applications," and how they would know if the information provided was of high quality and validated.
8. References

[1] https://developer.android.com/training/implementing-navigation/nav-drawer.html

[2] https://stackoverflow.com/questions/41273503/send-receive-jsonrequest-from-android-to-firebase

[3] https://developer.android.com/design/material/index.html

[4] https://developer.android.com/training/volley/index.html

[5] https://developer.android.com/training/picasso/index.html

[6] https://developer.android.com/reference/android/os/OkHttp.html