Functional requirement

. Registration: - The doctor and the patient will be able to register to this system by fill out a registration forum

. Patient appointment: - patient will be able to make appointment using this system while making his appointment he can view all the doctor that are available and can view the doctor’s specialization

. Doctor appointment: - the doctor can view all his appointments using this system and he will have a list of patient that he as an appointment with

. Notification: - both the patient and the doctor will get a pop up notification for example whenever an appointment is being made the patient will get an notification that at this specific time you can go to the doctor and the doctor will get a notification that a patient wants to get an appointment with him

. Doctor specification: - when registering for this system the doctor should specify his specialization to link with the correct patient, where he works so that the patient nearest to him should be appointed and his working hours

. Patient record: - doctors will be able to view all his patients and will be able to access all his records such as appointment time, illness, medicine dosage and etc

. Patient review: - once a session with the doctor is completed a review card will be given to the patient to give his remarks about the doctor on how helpful he was so that other patients looking for an appointment with a doctor can go through the different reviews that other patient gave to this doctor on how there appointment went and how helpful the doctor was on the patient’s problem

. Loyalty points: - frequent user will get loyalty points this will allow the user to get a discount on his or her next appointment

Non-functional requirement

. Patient appointment: - when making the appointment the patient will specify his/her I illness by that the system will give the list of recommended doctors to the patients to select from to make an appointment

. Nearest doctor recommendation: - when registering to the system both the doctor and the patient will specify the city they reside in this will allow the patient to see the nearest doctor to his/her location and also the doctor could view his patients nearest to him

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User characteristics

There are two types of users that interact with the system one is the patient and the other is the doctor each of these two types of users has different use of the system so each of them has their own requirements.

The patient will use a progressive web app there he will have a list of recommended doctors which will be provided to him on the bases of what kind or problem or illness the patient can also view the availability of the doctor and which doctor is closest to him

The doctor also will use a progressive web app (PWA) there the doctor will be able to manage his appointments he will be able to view all his patients’ medical records and will be able to give the recommended dosage of medicine required by the patient to get better

Constraints

The Internet connection is a constraint for the application. Since the application fetches data from the database over the Internet, it is crucial that there is an Internet connection for the application to function. Both the web portal and the progressive web app (PWA) will be constrained by the capacity of the database. Since the database is shared between both application it may be forced to queue incoming requests and therefor increase the time it takes to fetch data

Assumptions and dependencies

One assumption about the product is that it will can be used on mobile phones and on desktop and laptops that have enough performance. If the phone does not have enough hardware resources available for the application there may be scenarios where the application does not work as intended or even at all.

Another assumption is that the GPS components in all phones work in the same way. If the phones have different interfaces to the GPS, the application need to be specifically adjusted to each interface and that 6 would mean the integration with the GPS would have different requirements than what is stated in this specification.

The mobile application is constrained by the system interface to the GPS navigation system within the mobile phone. Since there are multiple system and multiple GPS manufacturers, the interface will most likely not be the same for every one of them. Also, there may be a difference between what navigation features each of them provide