

Android Mobile Application for Online Doctor Appointment

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Abstract—Technological development has resulted in a boundary free digital world. This development has resulted in transaction through virtual money instead of real ones. In the present scenario, if the appointment has to be booked, the user has to physically go to the hospital or make a call which consumes the time of the users. If the doctor cancels their schedule, the user is not aware about it unless they go to the hospital. Managing the details and history of the hospital visits of a particular user in physical way is difficult task. “Android Mobile Application for Online Doctor Appointment” is a robust application that makes user to book an appointment with the doctor. This application can be used by anyone. Users can choose their required hospital and specialist in their locality. If the doctor is available user will be given with token number and timings. GPS facility is used in case of emergency where doctor can easily track the users location. It is advantageous in maintaining the information. Therefore it is the perfect replacement for unreliable existing system.

Keywords—Generates Token and Timings, Global-Positioning System(GPS)

I. INTRODUCTION

“An android mobile application for online doctor Appointment” is aimed to provide easier and smart integration between doctor and the user. This is secured login authentication of admin, doctor and user. It provides the information according to the authority given to the individual. This application has been developed to override the problems of user such as, if someone wants to book an doctor appointment, they need to call for hospital or personally go to hospital to book an appointment and also if doctor is unavailable in the hospital, the patient does not come to know unless they visit the hospital. This application includes three modules they are admin, doctor, user. Each module is given with login option and password. Admin has to login and adds the hospital, doctor and specialization. Admin can view hospital, users. Doctor has to login and view the list of appointments. If he is available user will be provided with token number and timings. User has to register and user has a option of selecting doctor and hospital from the list. Users can view the doctor specialization and book an appointment. This application is even used in case of emergency by the users where users can choose specialization, enter the emergency description, phone number. This information along with user’s location will be sent to the doctor. Nearest doctor in users locality accepts the request and track the user’s location

through GPS. This application ensures easy way to book the appointment for various users without consuming time.

A. Overview of the existing system

In order to have an appointment with the doctor in the present existing system, the individual has to visit the hospital and book an appointment. In present scenario the entity willing to discuss the health problems with the doctor has to search for the respective doctor and book an appointment. The patient has to provide their details by visiting to the hospitals about the information such as name, age, and gender and health problem also the patient completely rely on the availability of the doctor. The information about the previous visits of a patient record is maintained in the paper work which has to be preserved over long period of time.

1) Limitations of existing system

- There is no guarantee of availability of doctor on a particular day.
- It is a time consuming process.
- The patient may incur in a loss of the records.
- The patient has to search for the various hospitals regarding their respective health issues.

B. Overview of proposed system

The proposed system can be used by any users to fix appointment of doctor. The main purpose of this project is to interconnect doctors and user into a single network. It ensures easy way to book the appointment for various users without consuming time. GPS facility is used in case of emergency where doctor can easily track the users location. It is advantageous in maintaining the details and history of the users. Therefore it is the perfect replacement for unreliable existing system.

2) Advantages of proposed system

- The “ANDROID MOBILE APPLICATION FOR ONLINE DOCTOR APPOINTMENT” is aimed to provide easier and smart integration between the Doctor and Patient.
- This application is secured because there is no involvement of third party in the process of booking appointment.
- The system is readily available for all the end-users.

- The system doesn't include any complex architectures so it is simple and flexible.

II. OBJECTIVES

- To provide an option to the admin to add and view the hospitals, doctors, specialization.
- To provide an option to the patients to view hospitals, specializations, select and track the details about token number and timings.
- Users can search for availability/unavailability of the particular doctor/
- To provide an option to doctor to check the number of patients appointments.
- To provide a better way to store information.
- To provide prescription facilities to patient.

III. METHODOLOGY

There are three main modules which include,

1. Admin module
2. Doctor module
3. User module

Module 1: Admin module

The Admin is been given the login credentials though these he/she logs in as admin. Admin can add all the relevant data regarding Hospitals (name, address, type, latitude, longitude), Specializations, Doctors (doctor name, experience, specialization, doctor details, phone number) and view hospitals, doctors and users.

Module 2: Doctor module

Doctor login with username and password, he can even change the password which is provided by admin. Doctor add and update available time, view appointments. Doctor can accept the user request and can view feedbacks.

Module 3: User module

Once the user enters into the application he/she has to register. After registering user will get OTP, if the entered OTP is correct user get into login page. If the user is already registered he/she can login using their login credentials. user has a option of selecting doctor and hospital from the list. Users can view the doctor specialization, available time and book an appointment. User can even send feedback to the doctor.

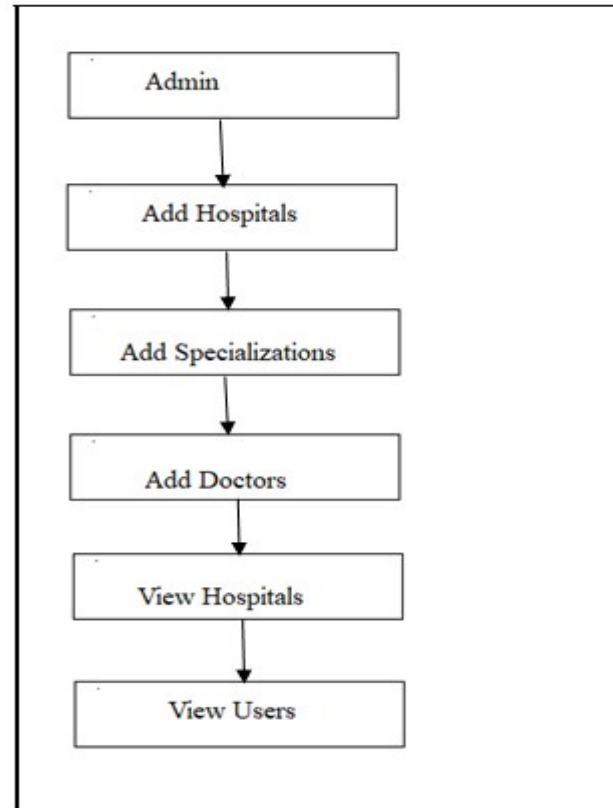


Fig 1: Block diagram for Admin

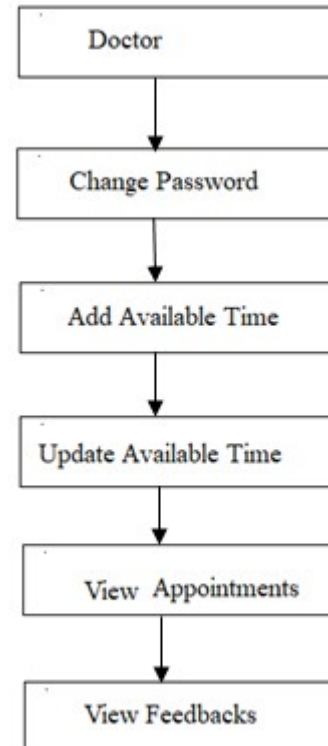


Fig 2: Block diagram for Doctor

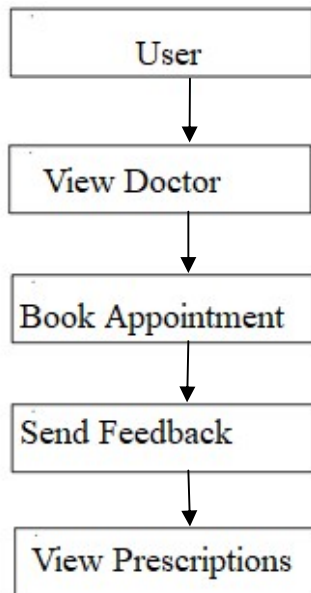


Fig 3: Block diagram for User

IV. CONCLUSION

This application will be more beneficial to the users because now they don't have to go to hospital physically to take their appointment as they can book their appointments in a digital way. The users can get the doctor of their choice in specific specialization. Also, this application can be used by anyone during the times of emergency. The doctor is able to view his day to day appointment list which makes easier for him to plan his schedule. Hence our project "ONLINE DOCTOR APPOINTMENT" is aimed to provide an easier way to book an appointment with the doctor. This application optimizes work of both doctor and users.

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