

# Effective Online Medical Appointment System

S.Hema Kumar, J.Uday Kiran, V.D.Ambeth Kumar, G.Saranya, Ramalakshmi V

**Abstract:** Now a days many of them are facing different types of medical problems. Most of the people don't know who is the one of the best doctor for their problems and they don't have direct contact with doctor to consult about their health problems. My doctor is a web based application, in this the admin allows registration and login for both doctor and patient. Doctors can register by giving his/her necessary details like timings, category, etc. After successful registration, the doctor can log in by giving their username and password. The doctor can see the patient request and sends the notification to the patients if the appointment is available. He can also view the comments given by the patient. The patient must be login and registered then he can select the doctor by choosing his location and the problem faced by the patient. Then it shows the results list of doctors matching patients for their problem and he can select the doctor according to his choice then it will be forwarded to online controller and the controller sends notification to doctor then the doctor accept the request to the controller and the controller sends notification to the patient for their booking time then it says the booking is Confirmed.

**Index Terms:** Online Appointment System(OAS), Healthcare, Scheduling, DocSys.

## 1. INTRODUCTION

EFFECTIVE online medical appointment is an online application it allows the patient to book appointments through online registration. A more Convenient Approach Going online is an easy way of life People take recourse to online transactions for a safer, convenient and smoother way of life. It is difficult to manage the patients by direct paper appointment. Over the last two decades, the health care has become the most important healthcare service in many developed countries. It is difficult to get appointments by direct contact to the hospital and standing in a queue. The main concept of this project is to get easy appointments through online application which resolves the problem to the patients. With this application the effort to the patients will be reduced which contains the details of the doctor and their available time and the time will be saved for both doctors and patients. The doctor can schedule his own time.

## 2 LITERATURE SURVEY

Digvijay et.al [1] the management of hospital to develop software which is easier to understand by the user and perform the simple and fast. It includes the collection of patient details and doctor details. The system stores all data and retrieves when required. The hospital management system can be entered by using user name and password which accessed by an administrator the data will be protected safely for any use. The hospital management system is necessary to store the patient details doctor details and staffs etc. Hence by these project the work become easy and saves lot time. Shafaq Malik et.al [2] If we want to visit a doctor for checkup we want to wait until the doctor available and get appointment as the mobile technology is developing it is easy

to get appointment from doctor. The mobile application accepts appointments by saving the records of the appointments which is linked with calendar. The user gets notifications based on the preset specified time before the appointment. This application is easy and friendly with user purpose. Here the admin will manage the doctor and patient details. IrinSherly.S et.al[3] Online appointment fixing and scheduling system is by a patient can directly approach the website or web application and connect to the doctor by the online software system. The patient can book their appointment according to their convenient time. The patient can choose their favorable doctor and book appointment. Online appointment reservation and scheduling system can help the patients, the doctors, and the office staffs by reducing their time. It can be easily performed by using computers and making an appointment, rather than going to the hospital. Tufailmaryam[4] shows The medical appointments were taken by visiting the hospital and waiting in the line up to our turn. Sometimes it gets irritation to the patients. The emergence of online appointment system offered timeless and efficient access to health care services. With this smart application we can get emergency doctor appointments. Here the people can choose doctors and in nearby hospitals. We can get this appointment easily through our mobiles and with this smart application we can save our time. Godphrey G.Kyambille and KhamisiKalegele[5] the appointment scheduling system is a mobile application. that includes the time saving for There will be no loss of time if the mobile based application is used. The mobile based application allows for 24 hours for convenient scheduling of patients. The patience can be arrived in specific time for seeing the doctor rather waiting for a longer time. Adebayo Peter Idowu et .al[6] many patients will loss the doctor appointments and it waste patient time. now in this modern and driven society we can get doctor appointment through online booking system. With this application you can choose doctor yourself in this application you can get details about doctor and hospitals. With this patient can manage their own appointments. They will be reminded by a SMS/E-MAIL before their appointment date. This type of functions will reduce the wastage of appointments. In emergency cases we can book appointments easily. It saves time of patient and doctor. Nazia S and EktaSarda [7] shows that online appointment system is a system which a patient can easily access to the website and book their appointments. In this way the patient can give the additional information to the doctor when they arrives and giving the doctor time to prepare the necessary information. In this way

- S.Hema Kumar and J.Uday Kiran are currently pursuing bachelor degree program in computer science and engineering in panimalar engineering college, India, PH- 600123. E-mail: kannamhemanth@gmail.com, 2305sriudayjagan@gmail.com
- Dr.V.D.Ambeth Kumar, Professor, computer science and engineering in panimalar engineering college, India, PH- 600123. E-mail: ambeth\_20in@yahoo.co.in
- G.Saranya, Asst. Professor, computer science and engineering in panimalar engineering college, India, PH- 600123. E-mail: mbg.saranya@gmail.com
- Ramalakshmi V, Asst. Professor, Department of Computer Science and Technology, Karunya Institute of Technology and Sciences, Coimbatore - 641 114. E-mail: ramalakshmi@karunya.edu

online appointment system can help the staffs and patients. The reason for making the online appointment scheduling is to help the patients and the doctor appointments in a easier way. It makes it through the computer, access a website and makes an appointment, than to go to the hospital and wait for a long time in queue. S. Sri Gowthem and K.P. Kaliyamurthie[8] brings that Patient registration system in most of the health care institutions is carried out using paper appointments, and arrival of patients to health care waits the patients for a long time in a line this happens when reservation is made in paper form. Smart appointment reservation system for patient can be completely done through an online scheduling software. which it details about the hospital and patient information through a single site and provides an easy way for booking an appointments according to the patient convenience. Sonal G. Shelwante et.al[9] This is a smart health doctor appointment system includes registration of patients . The proposed task is easy arrangement booking framework that gives patients for booking a physical checkup on the online. Now in these modern days we can get online appointments by a single click. The user can enter into this by first making registration .Later they can use their user id and log in password. Regular checkup between the specialist gives the direct connection for little issues .Now it is very easy to get doctor appointments through online and it reduces human effort. The patient can view their status notification in the status tab.akinode et.al[10] Health care sector is the one of the important sector. in present days many of them were facing different types of health problems. In hospitals they provide appointments by waiting the patients in line. In emergency cases in few hospitals doctor appointment is becoming a big issue. Present days we have many developments in different sectors. Now there is a development in online doctor appointments also. With this online appointments we can book our self a good surgeon for our health problems. In emergency cases also it becomes more useful to the patients .With this online appointments doctors also can be ready to give treatment to their patient problems. With this doctors also can save their time. And he can alert his day schedule.

### 3 PROPOSED METHOD

In the proposed system the doctors and patients are brought to one place which is handled by admin and the admin allows patients to register and search for the doctors basing on the location the list of doctors will be shown and patient can book by selecting the time slots and the admin will confirm the booking so everything is computerized an done very fast which will save time. Here my doctor proposed system is divided into 3-types.

- 1.Patient registration system
- 2.Doctor
- 3.DocSys Administration

#### 3.1 Patient Registration System

The patient needs to register and log in after entering he can search for the doctor by giving the location, the reason or problem. Basing on the doctor availability the admin will confirm the booking request and will send to mail that the booking is confirmed.

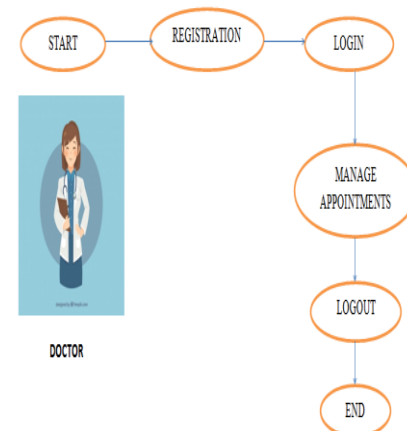


**Fig 1: Systematic Architect DocSys**

Figure 1: In this user can select the doctor and book the appointment by login and registration according to their choice.

#### 3.2 DOCTOR

Doctor need to be registered by giving the necessary details like timing, fees etc. After registering he need to log in. He can view the patient request forwarded from admin and he can accept and he can also view the feedback given by patients.

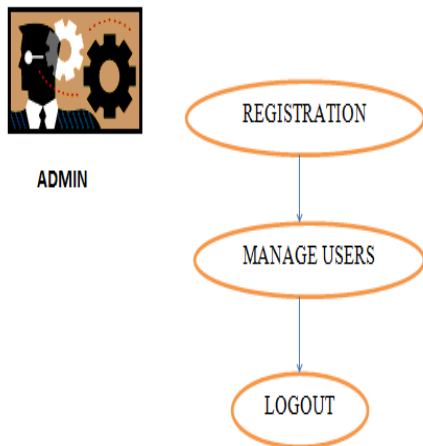


**Fig 2: Doctor Schedule System**

Figure 2: Provides the doctor's login by giving username and password and adjust their appointments according to their convenience.

#### 3.3 DocSys ADMINISTRATION

Admin can view the registered doctors and patients. He can also view the patient's request and doctors requests and he will confirm the patients and doctors requests.



**Fig 3:** Online Controller System

Figure 3: Shows that the admin will control the application for managing the details and appointments of the patients and the doctors.

#### 4 CONCLUSION

This is a web based application that overcomes the issue of managing and booking appointments according to user's choice or demands. Here the user can select good doctors by viewing their details and reviews. Hence this project offers an effective solution where users can view various booking slots available and select the preferred date and time. The already booked space will be marked yellow and will not be available for anyone else for the specified time. This system also allows users to cancel their booking anytime. With this application the doctor can alert his own schedule. Hospitals can easily manage their registration and appointment process and monitor the flow of patients to the doctor And with this application the time can be saved to both doctor and patient.

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