



## Medor (Healthcare Application)

Sakshi Dhande<sup>1</sup>, Jayesh Talole<sup>2</sup>, Shreyash Wankhade<sup>3</sup>, Twinkle Gajabhiye<sup>4</sup>, Dhanashree Dudhe<sup>5</sup>,  
Prof. T. R. Mahore<sup>6</sup>

<sup>1, 2, 3, 4, 5</sup>Undergraduate Student, Sipna College of Engineering and Technology, Amravati, Maharashtra, India

<sup>6</sup>Assistant Professor, Sipna College of Engineering and Technology, Amravati, Maharashtra, India

**Abstract:** The Smart Doctors Appointment and Prescription System is an application that provides services to the Doctors and Patients. The Doctor's Appointment and Prescription system connects between Doctor and Patients using web and android apps and patients are able to search a doctor and ask for his/her appointment as well as for prescription using their Smartphone. This application shows the Doctors the previous history of a particular patient and can prescribe on basis of the history of patient. The main objective of this research is connecting doctor and patient very quickly and easily from any location without any involvement of any third party. Any doctor and patient can easily use this application by registering themselves, and doctor can prescribe the patient based on disease using listed medicine and number of days etc. This system also notifies the Doctor and patient through apps about the request of doctor appointment and prescription within shortage possible time.

**Keywords:** Doctor's Appointment and Prescription System, ECG, Prescription, Patient, Doctor, DAP.

### I. INTRODUCTION

Nowadays, it is a great concern for developing countries to build an online prescription service and online appointment system. An online prescription service from doctor to the patient that might link both diagnostic center is needed to be developed which will help to enhance the medical facilities of a country. Patients visit several doctors throughout their lifetime, and health records get generated with every clinical meet [1]. The usual and traditional way of obtaining health records is from the paper-based record. The paper-based records have a low cost and have limitations such as difficult to access, time-consuming to update, secure, impossible to share and maintain for lifelong [2].

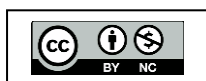
Again, the patients have to carry his previous medical history like prescriptions, laboratory test results before consulting any doctor. However, after providing the test report to patient and completing financial formalities report has been removed from their server. So, patients have to archive the printed prescription. Again, most of the patients literally have no idea if their desired or prescribed medicines are available or not in the local pharmacies.

### III. LITERATURE REVIEW

We have Some of the major drawbacks the existing system faces is includes, waiting time, Man- aging Patients' Appointment system, Appointment Delay, Waiting for Registration, Online Appointment Scheduling system. When going deep into each.

#### Waiting Time

To say that one must wait for a certain action to take place after a request or mandate has been made for that action is to use the term "waiting time" (Fernandes et al., 1994)" The amount of time between the time the





patient attended the outpatient clinic to the time the patient actually got his or her prescription” has been characterized as “patient waiting time” (Jamaiah, 2003). It is defined as the time it takes to get a doctor’s appointment after registering. There were two stages of waiting: first, to see a doctor, and second, to get medication (Suriani, 2003).

#### **Managing Patients’ Appointment system:**

Managing patient appointment system is a computer programme used to manage and decrease patient waiting time in the health care facility, according to Dexter (1999). The appointment system isn’t used at all at certain health care facilities. As a result, the average patient wait time here is higher than at the hospital that uses an appointment-based scheduling system.

#### **Online Booking System:**

Web-based systems and online systems are both terms that describe the same thing. Computer programmes running web servers allow access to a collection of connected web pages, which are often known as web pages or websites (Alex, 2000). In a system, each component works independently to accomplish a shared purpose. It is thus possible to employ web-based systems to execute specialized operations through the Internet for specific objectives. The system that links computers to other computers and networks is known as the Internet. Users may access data on other computers from afar thanks to this technology, which connects millions of networks worldwide.

#### **Appointment Delay:**

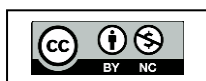
For every day a patient seeks an appointment, there is a greater probability that he/she may cancel or not show up for that appointment. There were 31 percent of the 5901 samples who cancelled or did not show up for their doctor’s appointment, according to (Gallucci, G., n. d. 2005). The majority of these appointments are arranged within a few days of the appointment being made. In this case, the best course of action is to encourage patients to arrive as soon as possible or to arrange an appointment at a time that works for them (Idowu, A. P., 2014).

#### **Waiting for Registration:**

Prior to seeing a doctor, people at the clinic and hospital are required to register at a counter. Queuing up for a consultation is essentially the goal of this phase, as people wait for their turn. It’s the real reason why so many people had to wait so long to register at the counter and see the doctor in the first place. The registration procedure must be swift and easy in order to minimize the amount of time users spend waiting. Findings from a 2017 survey show that lengthy lines at the registration counter are caused by a single employee who also distributes appointments to patients (BA, A. 2017). A lack of personnel is another well-documented cause of lengthy wait times in hospitals and medical offices. Using an online booking system is the best way to deal with this problem. This may save money by not having to hire as many people to work the registration desk and it can also cut patient wait times.

### **III. EXISTING SYSTEM**

An existing software system is any software application that is currently in use. It includes everything from newly released software to those that have existed for years.



**Practo:**

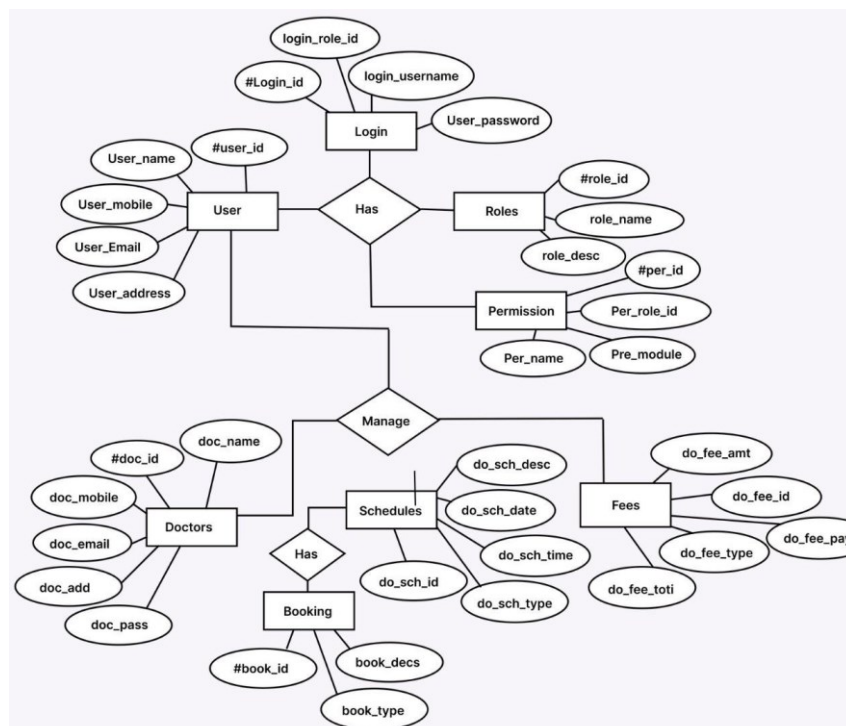
Book doctor appointment easily: Booking doctor appointments is the easiest on Practo. Consult online with a doctor: Consult a doctor online for medical advice on Practo app. Chat with a doctor instantly in a private consultation. Set medicine reminders: The app will remind the user when to take their medicines. Keep your medical records handy: User can upload their medical records on Practo app to keep them safe, secure and easily accessible from anywhere in the world. Order medicines to your doorstep: User can order medicines online from the app and get quick delivery at their home or office.

**JioHealthHub:**

Secure Storage and Sharing: All of user health related files (e.g., Medical Images, Prescriptions, Medical bills, Lab Reports etc.) are available only to them and they can share them securely with their care provider and family members who can view the data without making any changes to it. User can share information with tight control on it being shared further or being sent to a third party without their authorization. Anywhere Accessibility: User's data is stored in the cloud which is accessible from anywhere and on any device but with their secure credentials. Easy and Automatic Categorization: Any health data that user upload, click or receive either from partner healthcare providers or other users is stored in categorized folders.

**IV. ER DIAGRAM**

Here we use ER diagram to design appointment booking and prescription generation. These ER diagram help to visualize all the database tables and identify the relationships between different entities and their attributes. ER diagram of this project. The diagram shows the hospitals database and its related fields. Different entities, their attributes, and their relationships are mentioned here. This helps the hospital to function efficiently and retain patients.

**Figure 1: ER Diagram**



#### IV. CONCLUSION

This paper presents the “Medor (Healthcare Application)” The major goal of this application is to make an online interaction between doctors and patients. Smart Doctor’s Appointment and Prescription system for Android meets most of the functionality to manage appointment and prescription for doctors and patients accordingly. Patient can use online appointment to save time and money. This application facilitates the interaction between patient and doctor. The developed system is efficient, effective and interface is very user friendly, Where the Doctor will get previous detail information about the Patient that stored permanently in the database so that if doctor get any problem, they can check easily previous prescription of particular patient.

#### REFERENCES

- [1] S. Phansalkar, J. M. Hoffman, J. F. Hurdle, and V. L. Patel, “Understanding pharmacist decision making for adverse drug event (ADE) detection,” *J. Eval. Clin. Pract.*, vol. 15, no. 2, pp. 266–275, 2009.
- [2] D. C. Classen, S. L. Pestotnik, R. S. Evans, and J. P. Burke, “Computerized surveillance of adverse drug events in hospital patients. 1991.,” *Qual. Saf. Health Care*, vol. 14, no. 3, pp. 221-5-6, Jun. 2005.
- [3] R. S. Evans et al., “Development of a computerized adverse drug event monitor.,” *Proceedings. Symp. Comput. Appl. Med. Care*, pp. 23–7, 1991
- [4] Silicon “Aging and Drugs - Older People’s Health Issues - MSD Manual Consumer Version”, *MSD Manual Consumer Version*, 2018. [Online].
- [5] Malik, Shafaq Bibi, Nargis Khan, Sehrish Sultana, Razia Rauf, Sadaf. (2016). Mr. Doc: A Doctor Appointment Application System. *International Journal of Computer Science and Information Security*, .14. 452-460.
- [6] Arthur Hylton III and Suresh Sankara Narayanan “Application of Intelligent Agents in Hospital Appointment Scheduling System” *International Journal of Computer Theory and Engineering*, Vol 4August 2012, pp. 625-630.

