

An Web Application on Instant Access to Healthcare System

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Abstract -- Online Medical Booking System is a complete web portal for managing patient appointment. It is a system designed specifically for medium and small hospitals to manage doctor's appointment. The program's interface is designed to be simple and its use can be grasped in minutes even by inexperienced computer users and elderly patients. The Online Medical and Doctor Booking System is easy to use, full-featured and flexible appointment management portal. It allows patient to view list of doctors, available appointment time, and book appointment, cancel appointment, and view his appointment history. Administrator can manage doctors database and schedule from web based control panel. Doctors can view their appointment list from this portal. System will have built in security features to handle different security threat like SQL injection, cross scripting, spamming. This project proposal describes the software functional and nonfunctional requirements for the Online Medical and Doctor Booking System.

Index Terms- Appointment, Booking System, Hospitals

I. INTRODUCTION

Online Medical Booking System is a multi-functional online doctor appointment scheduling software for doctors, clinics and large hospitals built up on Php with CodeIgniter framework. This open source scheduling system is built upon php with CodeIgniter framework. With the ease of configuration and personalization, Online Medical Booking System is the best tool for both doctors and patients. This is a powerful medical doctor appointment scheduling software to meet all challenges that may surface during your appointment scheduling and hospital management. This online doctor appointment booking software is user-friendly at both front and back ends, which means that the process of booking appointments and scheduling management of Online Medical

Booking System is easy for both the doctors and patients. For attracting new patients, a medical practice must adopt digitization. By using Online Medical Booking System make a start to provide digital healthcare. We can also lookup nearby ambulances and Blood Bank. Key Features: Search Module Appointment Booking Locate Medicines Shops Locate Ambulances Locate Blood Banks Check-in form Submitting Appointment management Schedule a timing (leave, Vacation etc) Past appointment Management Ratings and Reviews

II. LITERATURE SURVEY

A problem definition was listed in Smart India Hackathon 2018 by Ministry of Communications and Information Technology to make an application for Hospital Appointed System. So from there the idea of creating a web application based on instant access to medical services like appointed booking, doctor and hospital management struck our head. The fact that there is no other web application based on the different concept together so that's made us do it as it was the need of the government [1].

There are many web applications on hospital booking or patient and doctor management based on local searching but not a single one have all the other enhanced functions like blood bank search, ambulance search, locate medical centers and these functions together. These applications have covered the all above functions including live diagnosis, various government schemes for poor and needy people such as Mahatma Jyotiba Phule Jan Arogya Yojana (MJPJAY) for Below Poverty Line (BPL) and Above Poverty Line (APL) families. [2].

Some android applications have also these functions to show government schemes but none of them use for booking, management and live diagnosis purpose but these web application have all in one features along with additional and revolutionary features like live diagnosis with doctor, patient previous record management and social awareness listing [3].

III. PROPOSED SYSTEM

Online Medical Booking System is a user friendly and easy to use application. Any user can use the application in an effective way and will be very beneficial for him/her. For live diagnosis they need to create an account on the website [1].

Once a date and time are selected, the system will automatically confirm the booking and instantly record it within the system, without any staff action needed. Online Medical systems also come equipped with other beneficial features like automated e-mail and text message reminders [2].

Our system can provide authorized medical centers, Donations camps e.g. Blood Bank, Doctors and Hospitals so that patient will not get duped in future. It provides the exact address of the particular hospital, medical centers [3].

Patients have their previous booking records and save previous record in their system in different format. Patient and Doctor interact with each other with the help of our 3rd party live streaming application. Online Medical Booking System provide online tech support so that patient can interact with us and ask about government schemes [4].

Online Medical Booking System gives the top rated doctors, hospital, medical centers etc. from particular region so that patient will get the right treatment and can save his time as well as his money.

The Use Case Diagram of the application is given below. The Online Medical Booking System will work in all the web browser which supports java script.

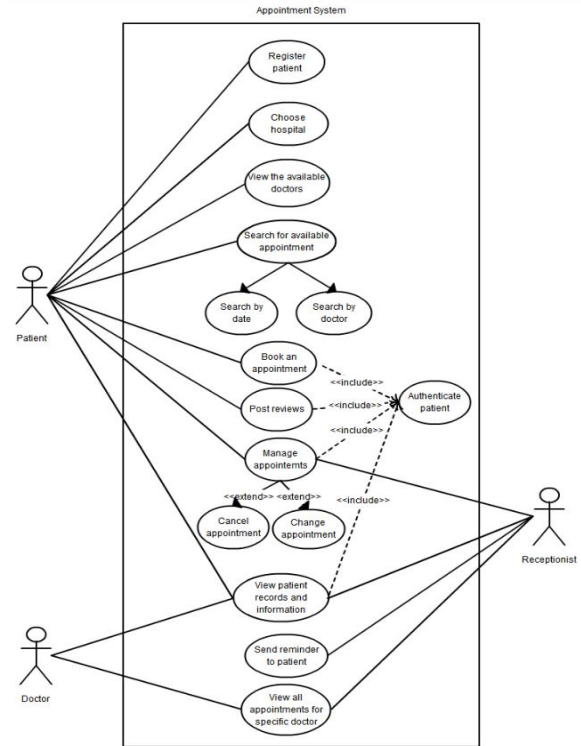


Fig 3.1: Use Case Diagram for Online Medical Booking System.

Basic steps involved in operating the portal:

Register/Login

The user needs to Register or Login to use the services like appointment booking, live diagnosis, and help from support team and to edit personal details.

Browse/Search

Once the patient or user browse portal then he/she will see the categories in which he/she want to search and in that another sub category so that user will get specific search result.

Use services

Once the patient or user done with searching he/she can book an appointment for available time slots and get diagnosis and also see the nearest medical center or stores for medicines.

After it they can give feedback so that user users get to know highly rated doctors or stores.

Support

If user or patient faces any problem he/she can chat with customer support and solve their problems regarding schemes and portals. Also they can know latest government schemes and insurances schemes from support team.

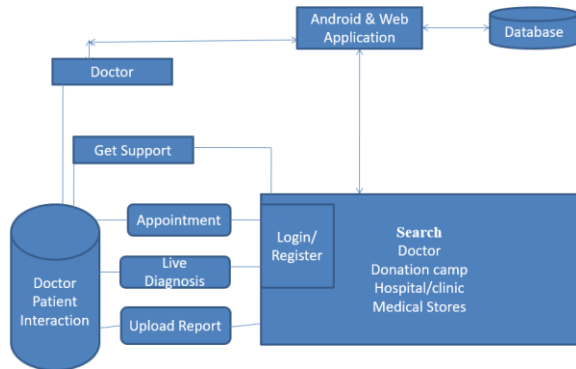


Fig 3.2: Block Diagram of Portal.

IV. CONCLUSION

Based on above work carried out following conclusion are presented. Employing an online appointment scheduling system, specifically through patient portals can have financial benefits for the organization while making the experience more patient-friendly. Online scheduling allows office staff to better utilize their time and gives patients more freedom to schedule their appointments. Consequently, it gives the best doctor and medical centers depending upon patient ratings. In sum, healthcare organizations save money and patients are happy. Win-win.

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