SMART APPOINTMENT GENERATION FOR PATIENT

Shelar Pooja[1], Hande Nilima[2], Dhamak Prajakta[3], Hingane Nisha[4], Jadhav Vinayak[5]

[1]Computer Engineering, JCEI's Jaihind Polytechnic, Kuran

Abstract — *Making appointment and scheduling in hospital are used to maintain and manage the access to facility providers in hospital. This Smart appointment generation for patient gives the benefit of greater patient care, stern cost control, increase profitability, medical records management and patient information privacy. The study is quantitative in nature and most of the data is based on survey data. To arrive at a conclusive idea, existing survey data and specific case studies are considered. In this system we can be sign in using a username and password. It is accessible only by an assistant. Only assistant can update the data into the database.*

Keywords- *smart appointment, profitability, quantitative, survey, cost control, scheduling*

I. INTRODUCTION

This is a web based appointment booking system that offers patients or any user a best way of booking a doctor's appointment online. This is online application that overcomes the issue of handling and reserve appointments according to user's choice. The job on occasion becomes very monotonous for the doctor himself in manually allotting appointments for the users as per their convenience. Hence this system offers an active resolution where patients can see different booking slots available and select the preferred date and time. The previously booked space will be marked with graphical interface and will not be available for anyone else for the indicated time. This system also allows users to terminate their booking anytime.

II. GOALS AND OBJECTIVES

A. Goals
- This system suggests an actual solution where users can view different booking slots offered and select the favored date and time.

B. Objectives
- Patients will be prompted of their appointments via SMS/email that will be reminded sent to them before their appointment date.
- Booked slots and vacant slots are display in different color codes.

III. EXISTING SYSTEM

In many aspects it might affect the administration of appointment preparation methods which involves the arrival time and consultation time variance, doctor preferences, dates and other data relating technology. In current system way of booking a doctor's appointment is offline and that's why it is time consuming because patient have to go in hospital, waiting in queue for long time only for create appointment for coming weeks or months. In this existing system we have to share data manually to different departments, hence required more manpower. The data of patient and doctor in hospital is paper oriented hence we cannot share data remotely, anyone can accept data so, the system is not safe. In this system user authentications are not provided. It's a time consuming system. The manual holding of the record is time wasting and highly inclined to fault. The appointment scheduling is modeled as a single batch process, which assumes all service requests are known before allocating the time slots. To solve these problems, proposed system has been design.

IV. PROPOSED SYSTEM

The proposed system is a smart appointment booking method that provides patients an ease way of selecting a doctor's appointment online. This will promote the patient hope and satisfaction which increases the profit margin. In this system user authentication is provided. This will be an online application that overcomes the problem of handling and booking appointments according to user's choice. It is user friendly appointment system which requires less manpower and also secure than offline appointment. We can retrieve information when we required. This system also permits users to cancel their booking whenever they want. The system is under administration of assistant who handles the bookings

create. Users have to first register themselves to login into the system. User can click on spaces to see the availability. Users can book appointment for their necessary date and time. When user is successful in appointment verification and thank you email regarding a slot booked. The system has a feedback form, where user can provide feedback. This system is used to manage doctor's time utilization and reduce the patient waiting time.

V. Architecture Diagram
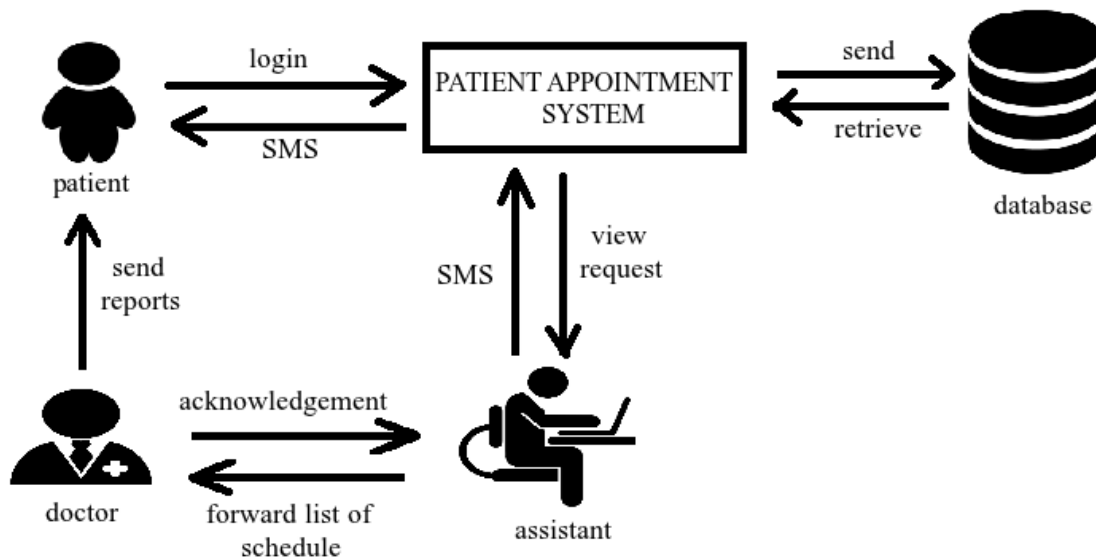
Fig.Architecture diagram

This system develops patient care and reduce uncertainty. This system handle the workflow of daily medical services and also managing financial, administrative and medical data. This system gives the right information as well as knowledge available to the right people in exact place at the accurate time in right form.

VI. APPLICATION

- This structure can be implemented in hospitals and clinics.
- It can be utilized by companies and organizations (hospitals, schools, colleges) for their clinical departments.

VII. CONCLUSION

- With the progress of web based Patient Appointment System, patients can book and handle their own appointment with simplicity.
- These functions could incidentally help to decrease the number of squandered clinical appointments and patients no-show up for their appointment.
- Patients would be informed via SMS/email if their appointment were affected, when there is vital needs of the service provider at other place or in case of any occasion that can result to the absence of the facility supplier.

VII. ACKNOWLEDGEMENTS

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