

Online Doctors Appointments System

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Abstract: It is a real-time web application for doctor's appointment and making fine coordination between patients and doctors. The application has three main sections first section is general information about doctor, contact, information, etc. Second section is Patient login, only the register people can login and make, cancel, reschedule appointment 24hour a day 7 days a week or Modify information like address change, telephone change, etc. Third section is doctor login only authorized staff can login. Modify information doctor, office, etc. print or view any day appointment. Make, cancel, and reschedule appointments. New patient, first register and get password and user name to make the appointment. The base application is one doctor one specialty, but it is flexible to be used by many doctors and many specialties. The database, store procedures and computer is design in such way to accommodate different situation. The front end can be modified as per requirement. People only need an internet access to use the application. Now you could get an appointment with a choice of your specialist using a simple web application. In a first of its kind. "Booking an appointment with the doctor of your choice using your web site is a common thing in the developed part of the world". But in India, this is a very unique concept. We usually rely on the advice of the receptionist at the hospital to book us with a doctor but there is no way to review or research on the doctor making an appointment, "This not only gives a ready-to-use health directory to the user but also pampers him with a variety of options in his choice of locality", which is web application, contains India's largest database of doctors, classified by specialty. The application also contains listings of hospitals, laboratories, chemists, and specialty clinics.

I. Introduction

As the population of India is growing rapidly, so in order to fulfill requirement for health sector area is becoming tedious work for the doctors as well as for the patient.

Also in order maintain the manual (current) appointment system for all the patients is really a tough job to do so as the patients requirements increases the resulting overhead for maintaining the information related to all the patients also increase accordingly.

This, in turn, will result in a swell in the number of patients seeking care at medical facilities, hospitals wellness center, physicians' practices and holistic groups.

While patient growth certainly has it benefits, it also creates new challenges for facility administrators and their staff. Process and procedure that previously were adequate no longer be effective in handling a rise in new patients, prompting administrators to seek out alternatives a new technology and techniques to assist them and their patients.

One process affected almost immediately from an increase in patients in appointment-scheduling. A requirement for individual care or to attend seminars, events and other activities at most medical, healthcare and wellness facilities, this seemingly simple task can quickly become burdensome and challenging to staff members. This is especially true if the facility continues to rely on the most standard-and also most inefficient-manner of scheduling appointment: over the phone. While common in some office settings, scheduling appointments over the phone is a time- and resource-draining process that's also inconvenient for patients, especially in our web-connected society where more and more individuals prefer to conduct common tasks-such as scheduling appointments-online instead of picking up the phone and calling them in.

Processes and procedures that previously were adequate may no longer be effective in handling a rise in new patients, prompting administrators to seek' out alternatives and new technology and techniques to assist them and their patients. In addition to online scheduling, online scheduling systems also come equipped with other beneficial features like automated e-mail and text message reminders, which the system sends out to patients and booked individuals on a specific date prior to their scheduled appointment; recording and record-keeping capabilities that make it quick and simple to access data associated NN it a specific appointment; and

repeat patient reminders, which the system sends out automatically when a specified amount of time has expired between appointments.

The flexibility of online scheduling software enables it to be utilized for a variety of different services and activities at medical, healthcare and wellness facilities, such as:

- Scheduling patient appointments, treatments and services.
- Booking vaccine and inoculation clinics, as a flu shots.
- Scheduling on-site seminars, events and activities.

Staff spend less time on the phone booking and managing appointments, thereby freeing up their schedule for more important and pressing tasks. Booking individuals also save time, as they no longer have to commit a part of their busy schedule to calling their medical, healthcare or wellness provider (or remain on hold, which adds minutes to the scheduling process)

As an example, let's look at large medical facility that typically schedules approximately 100 appointments daily. Each appointment call is fielded by an administrative support staffer, who spends an average of four minutes on the phone. This equates to an average of 400 minutes-.or almost seven hour of time spend each day just to booking appointment over the phone. That's time savings just from scheduling appointments alone. Other tasks automated by an online scheduling system, such as automated appointment remainder, add additional time savings to daily operation.

II. Proposed System

To make a truly Online Doctor System to have meet with online doctor, all manual process has been automated through this system. Patient have to fill online from by which id and password created and send to their email and upon accepting data, automatic login to patient panel. Through this panel patients can select the doctors and have appointment with them on their time from their own place. Patients will gate all their reports and medicines prescriptions in their inbox by notification indication just after appointment session. There is no need of cash and a secure payment gateway has been used to pay the required fees using their account or debit or credit card.

III. Objective

- New patients can fill up an online registration from giving all the details of their illness, they are called for physical examination by the doctor on a specified date.
- After going through all the details, the doctor either confirms the registration of the patient or reject it.
- All registered patients can book the appointment of the doctor. Doctors are available for consultation only on specific days.
- The appointments can be booked only for a time slot of 15 minutes on specific dates.

IV. System Analysis

Software Engineering

Software Engineering is the establishment and use of sound engineering principles in order to obtain economically software i.e. reliable and works efficiently on machines.

The application of systematic, disciplined, quantifiable approach to the development, operation and maintenance of software; that is, the application of engineering to software .

A Generic view of Software Engineering

Engineering is the analysis, design, construction, verification and management of technical entities. Regardless of the entity to be engineered, the following questions must be asked and answered:

1. What is the problem to be solved?
2. What characteristics of entity are used to solve the problem?
3. How will the entity be realized?
4. How will the entity be constructed?
5. What will be the approach to uncover the errors in design?
6. How will the entity be supported over the long term? What is the SDLC?

The Systems Development Life Cycle (SDLC), or Software Development Life Cycle in systems engineering and software engineering, is the process of creating or altering systems, and the models and methodologies that people use to develop these systems. The concept generally refers to computer or information system.

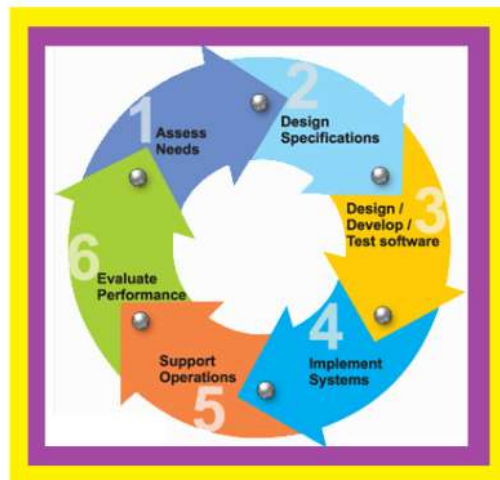


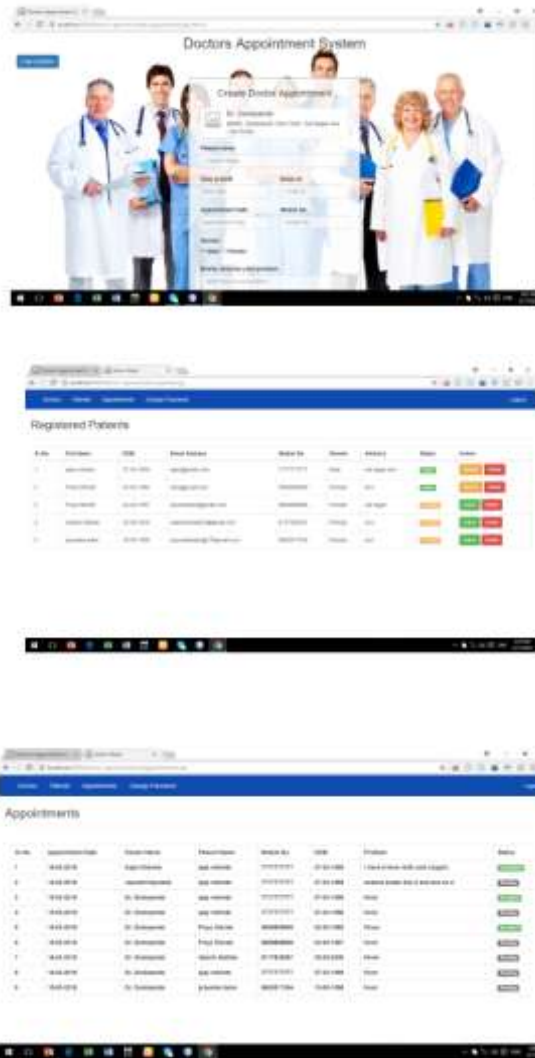
Fig 4.1 Software Development Life Cycle

In software engineering the SDLC concept underpins many kinds of software development methodologies. These methodologies form the framework for planning and controlling the creation of an information system software development process.

V. Result







VI. Conclusion

Today’s era is of doing work with high efficiency but at the same, time consumption is also what matter. When it comes to business and dealing with data quality and accuracy is what the most.

The project provides a user friendly interface to interact with the user. We have implemented a way of minimizing the complexity of hospital management.

Thus our project provides many features for providing the support for online appointment of patient which are approved by the doctor. Also it include the time of appointment which is suitable for patient. And also patient can modify and can cancel the appointment.

The project also provides the all details about and patients. As many work are done online and use of internets and android smart phone all over the work, any new user can use it without any basic knowledge.

Reference

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