HOSPITAL APPOINTMENT SYSTEM

DESCRIPTION

This is an online system for booking a doctor's appointment over the internet. This easy to use and efficient website helps to schedule doctor appointments with ease. It also helps to book appointment without having to be physically present at the hospital. Patients can book appointments online and doctors can approve the appointment if they are available on the requested day.

OBJECTIVES

- Design a system for better patient care
- Minimize the waiting time of patients.
- Putting a centralized information system together.

SYSTEM REQUIREMENTS

1. Only registered users must be able to book appointments.
2. The system must enable staff to include new patients to the database.
3. Demographics of registered patients (name, gender, number) must be available on the data base.
4. The system must be able to list working days of doctors and their off days so patients can schedule accordingly
5. The system must enable doctors to approve or cancel scheduled or requested appointments in the case of emergencies or other happenings that may cause a particular working day to be inconvenient.
6. The system must enable health care providers view medical history of patients..

REGISTERED USER REQUIRMENTS

1. Users must be able to sign up, sign in or recover account password.
2. They must be able to book and cancel appointments.
3. They must be able to write reviews about the doctors they meet.
4. They must be able to schedule the appointments with any doctor they prefer
5. They must be able to view, but not edit, their medical history.

DOCTOR'S REQUIREMENTS

1. Doctors must be able to sign up, sign in or recover account password.
2. They must be able to cancel appointments
3. They must be able to update, edit or delete booking details.
4. Doctors must be able to view medical history of patients and he alone or another healthcare provider upon instructions must update them as and when necessary.

NON-FUNCTIONAL REQUIREMENTS

There are a lot of software requirements specifications included in the non-functional requirements of the Hospital Management System, which contains various process, namely Security, Performance, Maintainability, and Reliability.

Security:

Patient Identification: The system needs the patient to recognize herself or himself using the phone.
. Logon ID: Any users who make use of the system need to hold a Logon ID and password.
Modifications: Any modifications like insert, delete, update, etc. for the database can be synchronized quickly and executed only by the ward administrator.
Front Desk Staff Rights: The staff in the front desk can view any data in the Hospital Management system, add new patients record to the HMS but they don't have any rights alter any data in it.
Administrator rights: The administrator can view as well as alter any information in the Hospital Management System.

Performance:

Response Time: The system provides acknowledgment in just one second once the 'patient's information is checked.

Capacity: The system needs to support at least 1000 people at once.

User-Interface: The user interface acknowledges within five seconds.

Conformity: The system needs to ensure that the guidelines of the Microsoft accessibilities are followed.

Maintainability:

Back-Up: The system offers the efficiency for data back up.

Errors: The system will track every mistake as well as keep a log of it.

Reliability:

Availability: The system is available all the time.

Hope you got a clear idea on the functional and non-functional requirements and the features required by the hospital. Any other queries on the topic are welcome.

<u>REFERENCES</u>

- Nguser.com
- ocdoc.in
- medical doctor
- medium.com