

HealthCare Management System

Abstract:

The objective of the project is to provide essential medical services online to users irrespective of their location. Users can connect through their home internet or approach any nearby kiosk to get these services. The motivation to build the system is that very few or no doctors are available at remote locations, limited hour services and lack of sophisticated medical equipments and no patients history/lab data management

Existing system:

In present systems there is hardly any medical service available in remote locations. Persons needing medical services often need to travel long distances. Even in urban areas the service is sometimes not available immediately. Patients and doctors are hardly to communicate with each others.

And also patients had to wait for long time in order to communicate to the doctor.

Proposed system:

The proposed system is a web based application which is available all the time. The system provides details of medical services online and allows users to interact with doctors and other medical personnel. The patients and doctors are interacting with chatting applications at their relative places. Initially the doctors had got the patients details in the online by help of admin people in order to communicate in chat.

Users of the system:

- Patients
- Doctors
- Kiosk Manager
- Admin

Modules:

The system is proposed to have the following modules along with the functional requirements.

Administrator module:

Administrator regularly takes back up of all kinds of data. Administrator can view the log information. Administrator also generates system reports. Administrator also provides online help manual for patients.

Doctors module:

A doctor must register with the system. Doctor's can manage their profiles. Doctor's give appointments to patients, e-prescriptions, and view patient's history. Doctor can interact with patient using live chat.

Patient module:

A patient must register with the system. Patients can make online appointment, view their previous health records and doctor's prescriptions. Patients can manage their profiles. Patient can interact with doctor using live chat. In case of any medical error (wrong medication or lab report) patient can register a complaint. Patient's grievance and feedback goes to Admin he can forward it to any doctor to answer.

Kiosk module:

Kiosk Manager views and adjusts appointments, performs day open and close activities and calculates his commission.

Software Requirements:-

- Web Presentation : HTML, CSS
- Client – side Scripting : JavaScript
- Programming Language : Java
- Web based Technologies : Servlets, JSP
- Database Connectivity : JDBC
- Java Version : JDK1.5
- Backend Database : Oracle 9i
- Operating System : Windows XP/2000/2003, LINUX
- Web Server : Tomcat 5.5
- Browser : IE/Mozilla

Hardware Requirements (minimum):-

- Pentium processor : 512 MHZ
- RAM Capacity : 1GB
- Hard Disk : 40GB
- CD-ROM Drive : 32 HZ
- Keyboard : 108 Standard
- Mouse : Optical
- Monitor : 15" Color Monitor