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# **Hospital Management System**

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#### ABSTRACT

Today web based technology offers multiple online services in nearly every field. Nearly everything can be done online which help to reduce the quantum of task cost and troubles. The paper describes about an idea Ofsuch a web based networking technology that can be ve'y important in implementing the functionality Of online Hospital management. This will help in management of patients, managing the schedules of the doctors, maintaining the records of patients which can be accessed throughout hospital. Stoaring, managing, communicating, assaying and streamlining the patient details online. Hence by applying this web base application using customized application programming we can manage multiple tasks that are generally time consuming and inconvenient.

Keywords: Networking, Management, Hospital, Doctors, Stoaring.

#### 1. Introduction

The hospital Management system includes enrollment of patients, associating their information into the system, and also automatic billing The software has the power to convey an exploration facility for each patients and therefore the employees mechanically. It include the search establishment to know the current status of each room. User can search about the doctor whether they are available or not and the details of a patient. The hospital management system are often login employing a username and password. It's reasonable either by AN admin or secretarial assistant. It is accessible either by AN administrator or secretary. Only they can add data into the database. The data can be retrieved easily. The interface is very userfriendly. The data is well protected for private use and quick processing. Hospital Management System is designed for multispecialty hospitals, to cover a wide range ofhospital administration processes. Hospital Management System could be a helpful to boost the management of hospital within the space Of clinical method analysis and activity-based cost accounting. Hospital Management System allows you to develop your organization and improve effectiveness and quality of work.

## 1.1 Motivation

Facilitating the process of all the management process like patient registration, billing, doctor appointment, doctor prescription etc. is the real motivation of hospital management system project. We always see that the user has to go to find the history of the patients. Various registers. It wastes time. So it will be easy to manage all the processes through this system. So, inspired by this situation that is happening regularly in hospitals now, we are creating this system for patients and hospital staff. So, we want this system which helps the hospital to work fast and efficiently.

#### 1.2 Objectives

To implement this application we will need a computer in every room of the hospital e.g. All wards of the hospital must have computers to update patient information, all departments like MRI, CT scan, X-ray rooms must have computers to store reports in the system database and all these computers must be networked. Have an updated browser and internet connection.

### 2. Literature Survey

According to Paul R. Vegoda (1987), Hospital Information System (HIS) is defined as, \_an integrated information system which improves patient care by increasing the user's knowledge and reducing uncertainty allowing rational decisions to be made from the information provided. Haux, Schmücker and Winter (1996) view hospital information systems as the entire information processing and information storage subsystem of a hospital, whereby it is not only about the computer systems and networks and the computer-based application systems installed on them, but also about the information in the entire hospital.

HIS consist of different softwares that are integrated in order to capture data in specific sections of the hospital [Garrido, Raymond, Jamieson, Liang and Wiesenthal [2004:21-22]], handle the workflow of daily medical services and Also helps manage day-to-day medical care and financial, administrative

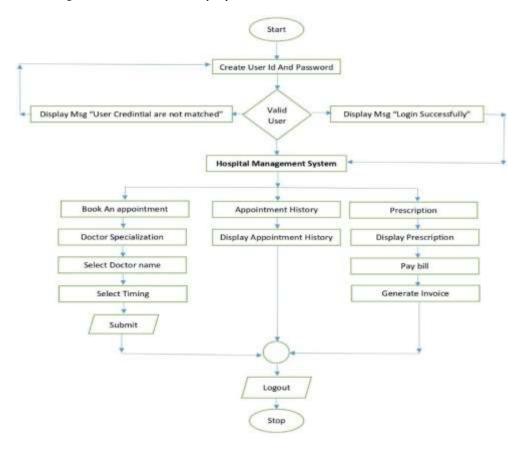
and clinical data.. From the various definitions of HIS, it is understood that HIS is a very broad area as it encompasses services catering to varied departments and personnel of an hospital and finally satisfying the patient care in its true sense. Hospital Information Systems (HISs) are supposed to make the right information and knowledge available to the right people, in the right place, at the right time and in the right form.

## 3. Proposed System

This system consists of four main interconnected components such as Website, Admin frontend, system back-end and the database server. Here, both customers and administrators must work on same platform. First users need to sign up or sign-in to the system with valid information which will directly store in the Mongo DB. Then users can follow user-flow as follows according to their opinion.

Existing or traditional hospital management system in any hospital is a time consuming and lengthy process. Patients go to the hospital and undergo various procedures for treatment. Patients then proceed to the billing counter and wait in a queue where the receptionist prepares the billing themselves, a process that is more time-consuming and lengthy. We create Hospital Management System to overcome such deficiencies.

Hospital Management System is designed for any hospital to replace their current manual paper based system. The new system controls patient information. Room availability, staffing and operating room schedules, and patient receipts. These services will be provided in an efficient, cost-effective manner with a view to reducing the time and resources currently required for such tasks.



#### 4. Conclusion

Websites and customized applications on tablets by implementing this web based application. Patient management will be much easier, efficient and less time consuming. It will be easier for doctors and patients to access records and reports as the history and reports are already present in the system, the patient does not need to carry all the reports and bulky X-rays and MRI films etc. Patient details are already present. Keep in database while registering so no need to fill form in case of emergency. Doctors can check patient details on their system, give prescriptions with one click which will be sent to pharmacists this will reduce a lot of time as the pharmacists know which drugs to prepare first, communication between doctors and the patient is enhanced as the patient can get maximum help online. This will help reduce a lot of manual effort, time and cost involved.

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