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HOSPITAL BED MANAGEMENT SYSTEM

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ABSTRACT

The Project of "HOSPITAL BED MANAGEMENT SYSTEM" is to computerize the front office management of hospital to develop software which is user friendly simple, fast, and cost - effective. It deals with the collection of patient's information, diagnosis details, as well as hospital's administration. Traditionally, it was done manually. The main function of the system is register and store the hospital's details initially along with the doctor details and retrieve these details as and when required, and also to manipulate these details meaningfully System input contains patient details, diagnosis details, while system output is to get these details on to the screen.

The Hospital Management System can be entered using a username and password. It is accessible either by an administrator or receptionist. Only they can add data into the database. The data can be retrieved easily. The data are well protected for personal use and makes the data processing very fast.

Keywords – System integrations, Beds/supply and distribution, Software Design, Database Management Systems, Hospital Bed Management Systems.

Introduction

The purpose of the project entitled as 'HOSPITAL BED MANAGEMENT SYSTEM' is to computerize the front office management of the hospital to develop a software which is simple, fast and cost effective. It deals with the patient's information, details, etc. Traditionally, it was manually which is a time consuming and lengthy process. So the main function of the system is to register and store the patient details and the doctor details, diagnosis details while the system output is to get these details on to the screen.

The project Hospital Bed Management system includes registration of patients, storing their details into the system, and also ward details It includes a search facility to know the current status of each room. User can search availability of the bed in various registered hospitals and the details of a patient using the ID. The Hospital bed Management System can be entered using a e-mail and password. It is accessible by hospitals for registering their hospital and maintain their details. Only they can add data into the data base. The data can be retrieved easily. The interface is very user-friendly. The data are well protected for personal use and makes the data processing very fast. Hospital bed Management System is powerful, flexible, and easy to use and is designed and developed to deliver real conceivable benefits to hospitals. Hospital bed Management System is designed for multi speciality hospitals, to cover a wide range of hospital administration and management processes. It is an integrated end-to-end Hospital bed Management System that provides relevant information across the hospital to support effective decision making for patient care, hospital administration and critical financial accounting, in a seamless flow.

BACKGROUND OF STUDY

In Today's World, Healthcare especially in the developed world is characterized by rapidly increasing use of information technology in patient care, increasing documentation, coding and billing ,and management. Rise of health information technology worldwide is increasing the efficiency of health service delivery, reducing medical errors, improving quality of care and providing better information for patients and physicians. The overall goal of the information management function is to obtain, manage, and user-information to improve health care and medical services, performance, governance and management and supportive processes .

PROJECT PLANNING AND MANAGEMENT

Feasibility is the analysis of risks, costs and benefits relating to economics, technology and user operation. There are several types of feasibility depending on the aspects they cover. Some important feasibility is as follows: Economical Feasibility-Fastest getting information Small response time and better services Easy and fast Time management Reduce cost of minimal data management Easy Update and retrieval on stored records Better decision making Better service For crime holding Little job burden for detectors and other police officers .Operational Feasibility -It might not be possible to see fully operational system with the given limit of time of software development. However with great co-operation of the project team the system can overcome and fix the all problems.

SCOPE

This application will help user to access and view all his reports from anywhere online. Most of the analysis and interpretations, made for this report, are based on secondary data obtained. This data could have some inherent mistakes and errors Due to limited time available survey could not be undertaken for intended 20 consumers and thus had to be limited to 10. Communication gaps exist between employees and management, as seniors don't share problem with subordinates resulting in violation of psychological contract, Poor rewarding system(slow), poor working conditions.

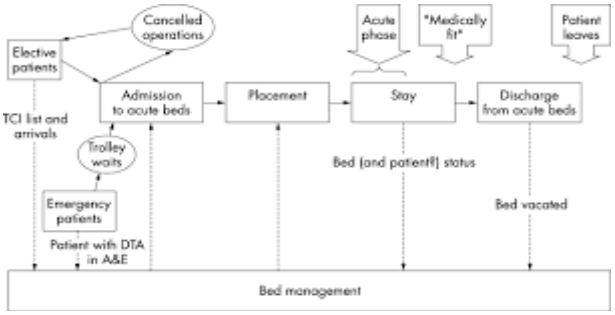
OBJECTIVE

The main objective the project is to develop android base application that will give the every possible detail of hospital and doctor to the patient and book their appointment online from there comfort. The application will make patient logged in to the application and book their appointment.

- Booking a bed for a patient become easy.
- Patient can book bed and check live status of hospital from anywhere and anytime.
- In current system Lot of unnecessary and manual work will be avoided.
- Enhance the online appointment scheduling system through android base mobile application.
- There will be paper less work to save time of hospital management system and the hospital receptionist staff.

Methdology

Methods we design a model for transferring bed status in hospitals. Model represent a standard which can be interface for data collection from Hospital bed management information System. Bed data of hospitals can transfer by protocol. The data warehouse stores all bed status logs from hospitals. And design a web application for analysis bed status log and report beds available in hospitals. These data include information on the geographical location of the hospitals, hospital wards and types of bed available in every ward, and in the end status of each bed, whether a bed is occupied or empty. The main point of this system is Direct Sending data from without user intervention. Due to the seriousness of accidents patients, many hospital staff are reluctant to accept patient with acute conditions and require specific bed [ICU and CCU]. The online system by changing the status of bed to announce the new status to health care executives is very valuable.



2.Result

We designed and implemented a system, where we can bring ease in the administration of the respective registered hospital as well as users who are trying to book a bed or check the live status of the system. Initially, hospital needs to register their hospital so can they can add their hospital in the system. After successful registration of the hospital using hospital's mail ID and unique password generated by their mail ID, they can add data of their hospital to the database. On the other hand, user can view the dashboard of any registered hospital from anywhere. User can view the total number of beds as well as beds which are in waiting lobby. In this way they can view the live status of the hospital and will keep updated after every few minutes.

Conclusion

Oververall architecture and function flow of the system are analyzed and introduced in detail by using the system architecture diagram and the bed center function flow chart in this paper. We also present the three-tier structure of presentation layer, business logic layer and data layer respectively in details.

According to the function requirement as well as combining, our research has designed and realized a set of safe, stable and easy-to handle bed resource management information system coming at the problems of "Difficult to be hospitalized, which provide the hospital beds centralized management with effective information solutions. Although the hospital's bed management mode was optimized and the average length of hospital stay was reduced, the problem of hospitalization was relieved to a great extent.

However, how to protect the quality of patients under the premise of the quality of care, making the average hospital stay in patients with a more reasonable arrangement. We still need a better communication between hospital management and patient, to complete a more perfect bed management.

Bibliography :

[1] Walker DM, Wicks M, Hubbard WN, Thomas RD. Increased mortality from inadequate provision of coronary care unit facilities. J R Soc Med. 1994 Apr;87[4]:211-2.

[2] Rodriguez-Carvajal M, Mora D, Doblas A, Garcia M, Dominguez P, Tristancho A, et al. [Impact of the premature discharge on hospital mortality after a stay in an intensive care unit]. Med Intensiva. 2011 Apr;35[3]:143-9.

[3] Cardoso LT, Grion CM, Matsuo T, Anami EH, Kauss IA, Seko L, et al. Impact of delayed admission to intensive care units on mortality of critically ill patients: a cohort study. Crit Care. 2011;15[1]:R28.

[4] Hadef H, Bartier JC, Delplancq H, Dupeyron JP. Using baseline data to address the lack of hospital beds during mass-casualty incidents. Prehosp Disaster Med. 2008 Jul-Aug;23[4]:377-9.

[5] Hadef H, Bartier JC, Pelaccia T. SAGEC 67, a free-access database linking at least three countries, for finding spare beds in the event of a mass casualty incident. Eur J Emerg Med. 2009 Aug;16[4]:183-7.