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Easy Medical Services Using E-Care System

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ABSTRACT: Our Research Paper Easy Medical Services Using E-Care system this paper is very helpful to both Medicare staff as well as to the public. The data can be retrieved easily and store the details easily. The interface is very user-friendly. All the branches of the Medicare can be integrated with one to another. So anybody can get the status of each branch easily from the Medicare center. It is having mainly Administration and Client modules. In this include varies module such as administration module and client module. Our software provides the facility to give unique id to the entire patient which is admitted in to the hospital and stores the details of every patient and the staff automatically. Includes registration of patients, storing their details into the system, and also computerized billing in the pharmacy, and labs. It includes a search facility to know the current status of each room. User can search availability of a doctor and the details of a patient using the id. The Easy medical services using E -Care 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.

KEYWORDS: Medical services, Unique Id,

I. INTRODUCTION

This paper is having mainly Administration and Client modules. The growing quality demand in the hospital sector makes it necessary to exploit the whole potential of stored data efficiently, not only the clinical data, in order to improve diagnoses and treatments, but also on management, in order to minimize costs and improve the care given to the patients. However, data mining and the overall process, known as Knowledge Discovery from Databases (KDD), is usually an expensive process, especially in the stages of business objectives elicitation, data mining objectives elicitation, and data preparation. The Easy medical services using E -Care system can be entered using a patient unique id and provide the services to the patient. It is accessible either by an administrator or receptionist. Only they can add data into the database. 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. In this sense, Data Mining (DM) can contribute with important benefits to the health sector, as a fundamental tool to analyse the data gathered by hospital information systems (HIS) and obtain models and patterns which can improve patient assistance and a better use of resources and pharmaceutical expense. Data Mining is the fundamental stage inside the process of extraction of useful and comprehensible knowledge, previously unknown, from large quantities of data stored in different formats, with the objective of improving the decisions of companies, organizations or institutions where the data have been gathered. This is especially the case each time data mining is applied to a hospital: many meetings have to be held with the direction of the hospital, The Purpose Of the paper entitled as “Easy Medical Services Using E-Care 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, etc. Traditionally, it was done manually. The main function of the system is to register and store patient details and 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 the CRT screen, The purpose of the project entitled as “Easy medical services using E Care system” is to computerize the Front Office Management of Hospital to develop software

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which is user friendly, simple, fast, and cost effective. It deals with the collection of patient's information, diagnosis details, etc. Traditionally, it was done manually.

II. RELATED WORKS

The purpose of the paper entitled as "Easy medical services using E Care 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, etc. Traditionally, it was done manually. The main function of the system is to register of each patient and store the details of every patient and 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 CRT screen. It is having only two module one administration module and client module. Administration module mainly deals with the all the Medicare management such as department, ward, staff, login module, information ,patient details, physician details, employee details, management, room details, patient admission, appointment ,billing, patient report etc. The E -Care system can be entered using a username and password in login module. It is accessible either by an administrator or receptionist. Only they can add data into the database. 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. There are three main modules are used in the software store the record of hospital. These three modules are as information, patient details, and physician details.in information system First module of "Easy medical using E-Care System "In this module we can store information about patient. The second module is patient details of the login module In this module, details of patient can be added by the administrator. The information consists of patient name, patient ID, address, gender, age, occupation, blood group, contact no, etc. Every patient having unique ID. Due to the unique ID patient can be easily searched in the software. The next module is physician details in these module details of physician can be added by the administrator. The information consists of physician name , physician ID , address , department , what is the duty of physician , gender , visiting days , Specialization , contact no , treatment fees , check-up time etc. Every physician having unique ID. Due to the unique ID physician can be easily searched in the software. The next module is employee details in these module details of employees can be added by the administrator. The information of employee name, employee ID, address, gender, contacts no, marital status, qualification, designation, etc. Every Employee having unique ID. Due to the unique ID employee can be easily searched in the Software .then next module is room details in this module, we can see the availability of the rooms for shifting new patients in the hospital. Due to the rooms management we can see which room is available for patient. Then patient admission It is the second sub module of management module. In this sub module the user can store the information about patient admitting details such as on which date patient is admitted, patient admission ID, which Physician referred to the patient, etc. Then next appointment module it is the third sub module of management module. In this module the user store the information about appointments of physicians which are taken by the patients.it is helpful to avoid inconvenience between doctor and patient. Then next modules billing. In billing module the administrator can generate the bills of the patient automatically searching by the patient's unique ID .The bills are generated by only the administrator. This billing process is consists of all charges such as medicines charge , bed charge , ICU charge, doctor charges , OT charges , LAB charges , VAT charges , admission fees , consulting fees , room charges, etc.

Then next module is report module. The main function of the system is to register and store patient details and 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 CRT screen. And last module is patient report. Patient reports are the important MODULE in the software. In this module there are all reports of patients are generated such as patient details, diagnosis details of the patient. Patient referred by which doctored. The algorithm automatically generates mask image without user interaction that contains only text regions to be in painted.

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III. SYSTEM DESIGN

System design is the process, which involves conceiving planning and carrying out the plan by generating the necessary reports and inputs. In other words design phase acts as bridge between the software Requirement specification and implementation phase, which satisfies those requirements. System design is the transformation of the analysis model into a system design model. The design of the system is correct if a system built precisely according to the requirements of that system. Design should be clearly verifiable, complete and traceable. The goal is to divide the problem into manageably small modules that can be solving separately. The different modules have to cooperate and communicate together to solve the problem. The complete project is broken down into different Identifiable modules. Each module can be understood separately. All the modules at last are combined to get the solution of the complete system. The drawback of the existing system is that it is very difficult to retrieve data from case files. It is difficult to handle the whole system manually and it is less accurate and to keep the data in case files for future reference because it may get destroyed. Moreover it is very difficult to retrieve. Redundancy of data may occur and this may lead to the inconsistency. The manual system is so time-consuming. The goal of any system development is to develop and implement the system cost effectively; user-friendly and most suited to the user's analysis is the heart of the process. Analysis is the study of the various operations performed by the system and their relationship within and outside of the system. During analysis, data collected on the files, decision points and transactions handled by the present system. Different kinds of tools are used in analysis of which interview is a common one. The first step is system development life cycle is the identification of need of change to improve or enhance an existing system. An Initial investigation on existing system was carried out. The present system of hospital is completely manual. Many problems were identified during the initial study of the existing system.

IV. EXPERIMENTAL RESULTS

Figure 1 shows the display on the screen firstly entered login id and password of administrator, then administrator entered the details of patient and give the unique id to this patient. By using unique id of this patient then display the details of the patient and check the room details. (a) Show the entered login id and password. (b) Show the patient information(c) show the room details

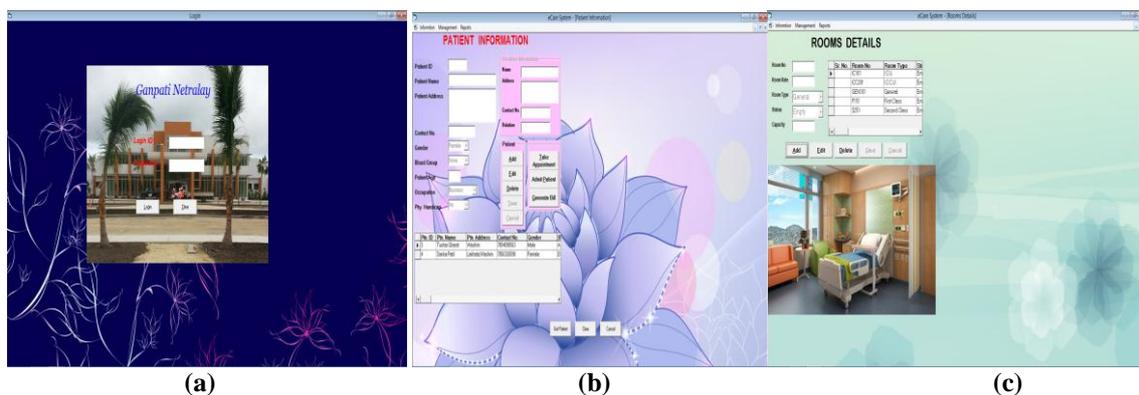


Fig: 1 (a) Show the entered login id and password. (b) Show the patient information(c) show the room details

And check the appointment of this patient. And finally check the billing details of this patient such as hospital charge, medical charge and doctor checking charge (a) Appointment of the patient (b) show the patient billing details(c) Show the select patient id.

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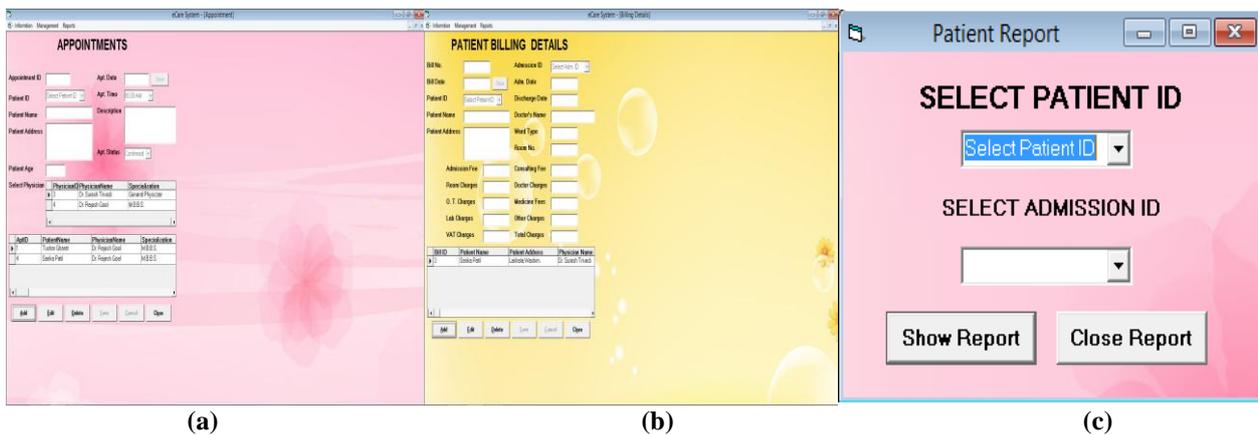


Fig:2 (a) Appointment of the patient (b) show the patient billing details(c) Show the select patient id.

V. CONCLUSIONS AND FUTURE SCOPE

The Easy Medical Services using E Care system is a great improvement over the manual system using case fields and paper. The computerization of the system has sped up the process. In the current system, the front office managing is very slow. The hospital managing system was thoroughly checked and tested with dummy data and thus is found to be very reliable. It can be used in large scale hospitals to manage the information about daily working. It will be helpful to keep the track of all information of hospital such as patient information, employee information, physician details,

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