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Follow Brian & Join the Discussion Instagram Twitter Facebook Pinterest Linkedin Youtube 1. A Project Report On "HOSPITAL MANAGEMENT SYSTEM" Submitted to Department of Computer Engineering, PDEA's College of Engineering, Manjari BK, Pune-412307 Submitted by Swapnil Sawant (30) Abraar Khan (22) Atharva Shrotre (37) Niteen Kale (36) 2. CERTIFICATE This is to certify that the below mentioned third year engineering students have carried out the necessary a project report work on "HOSPITAL MANAGEMENT SYSTEM" in the department of Computer Engineering, PDEA's College of Engineering, Manjari BK, Pune-412307. They have completed this project work under my guidance in satisfactory manner in October 2019 of third year engineering. Computer Engineering students have successfully completed a project report on "HOSPITAL MANAGEMENT SYSTEM" towards the fulfillment of their Degree in Computer Engineering in academic year 2019-2020. The performance of each of these students during the course was very good. Place: Date: Prof. S.V. Phulari Dr. R.V. Patil Guide Principal/H.O.D. 3. ACKNOWLEDGEMENT Apart from the efforts of all the team members, the section of this project report topic depends largely on the encouragement and guidance of our teachers. We take this opportunity to express our gratitude to the teachers who have been instrumental in the approval of this project topic. We would like to show our greatest appreciation to Prof. S.V. Phulari and other staff members. We cannot think them enough for their tremendous support and help. Their encouragement and guidance, we would not have been able to select the proper topic. The contribution and support received from all the team members including Swapnil Sawant, Abraar Khan, Atharva Shrotre & Niteen Kale is vital. The team spirit shown by all has made a project report work successful. 4. ABSTRACT The purpose of the project entitled as "Hospital 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 like add patient, update patient, delete patient, search patient, view patient diagnosis, etc. Traditionally, it was done manually. The main function of the system is register and store patient details and doctor details and retrieve these details as and when required, and also to manipulate these details meaningfully. The Hospital Management System can be entered using a username and password. It is accessible by an Admin, Doctor & 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. Government of India has still aimed at providing medical facilities by establishing hospital. The basic working of various hospitals in India is still on paper as compared to hospitals in European countries where computers have been put in to assist the hospital personals their work. The concept of automation of the administration and management of hospital is now being implemented in India also, with large hospitals like APPOLO and AIIMS in Delhi, ESCORTS in Chennai, having automated their existing system. Computers are not only used to increase the efficiency in all fields ranging from fixing the appointment with the Doctor to keeping the record of the Patient. 5. INDEX Sr. No. Contents Page no. 1. INTRODUCTION 1.1 Modules 2. SYSTEM ANALYSIS 2.1 Existing system 2.2 Proposed system 4 3. LITERATURE SURVEY 6 4. FUTURE SCOPE 7 5. REQUIREMENT SPECIFICATION 5.1 Hardware specification 5.2 Software specification 8 6. SYSTEM DESIGN 6.1 Use case diagram 6.2 E-R diagram 9 7. SYSTEM IMPLEMENTATION 7.1 Introduction 7.2 Sample code for main screen 11 8. SAMPLE SCREENSHOT 8.1 Main screen 8.2 Admin login 8.3 Doctor login 8.4 Receptionist login 26 9. CONCLUSION 32 REFERENCES 33 6. "Hospital Management System" PDEA COE, Department of Computer Engineering 1. INTRODUCTION Health of citizen is the wealth of Nation. India has contributes the most ancient Medical science "AYURVEDA" to the world besides other medical sciences. This field had witnessed a rapid metamorphosis in all of its sections. Hospital Management System is designed to improve the quality and management of hospital in the areas of clinical process analysis and activity-based costing. Hospital Management System enables you to develop your organization and improve its effectiveness and quality of work. Managing the key processes efficiently is critical to the success of the hospital helps you manage your processes. The Hospital Management System can be entered using a username and password. It is accessible by an Admin, Doctor & 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. Hospital Management System is powerful, flexible, and easy to use and is designed and developed to deliver real conceivable benefits to hospitals. The project Hospital Management system includes registration of patients, storing their details into the system by using database. The software has the facility to give a unique id for every patient and stores the details of every patient and the staff manually. Admin can view availability of a doctor and the details of a patient using the name, id. Hospital Management System is designed for multi specialist hospitals, to cover a wide range of hospital administration and management processes. It also aims at providing low-cost reliable automation of the existing systems. The system also provides excellent security of data at every level of user-system interaction and also provides robust & reliable storage facilities. Page 1 7. "Hospital Management System" PDEA COE, Department of Computer Engineering 1.1 Modules: The entire project mainly consists of 6 modules, which are • Admins • ADMIN Activity • ReceptionistManagement • doctorManagement • Doctors • Appointment • addDoctor • deleteDoctor • doctorActivity • patientDetails • searchDoctor • updateDoctor • viewDoctor • Main • Admin • Connector • Doctor • Hospital • Receptionist • Patient • DeletePatient • addPatient • patientActivity • searchPatient • updatePatient • viewPatient • Receptionists • ReceptionistActivity • addReceptionist • chooseDoctor • choosePatient Page 2 8. "Hospital Management System" PDEA COE, Department of Computer Engineering • deleteReceptionist • newPatient • patientManagement • searchReceptionist • viewReceptionist • updateReceptionist Page 3 9. "Hospital Management System" PDEA COE, Department of Computer Engineering 2. SYSTEM ANALYSIS 2.1 Existing system: The current manual system has a lot of paper work. To maintain the records of sale and service manually, is a Time-consuming task. With the increase in database, it will become a massive task to maintain the database. Requires large quantities of file cabinets, which are huge and require quite a bit of space in the office, which can be used for storing records of previous details. The retrieval of records of previously registered patients will be a tedious task. Lack of security for the records, anyone disarrange the records of your system. If someone want to check the details of the available doctors the previous system does not provide any necessary detail of this type. All this work is done manually by the receptionist and other operational staff and lot of papers are needed to be handled and taken care of. Doctors have to remember various medicines available for diagnosis and sometimes miss better alternatives as they can't remember them at that time. The limited time and resources have restricted us to incorporate, in this project, only main activities that are performed in a Hospital Management System, but utmost care has been taken to make the system efficient and user friendly. Page 4 10. "Hospital Management System" PDEA COE, Department of Computer Engineering Page 10 16. "Hospital Management System" PDEA COE, Department of Computer Engineering 7. SYSTEM IMPLEMENTATION 7.1 Introduction: Implementation is the stage of the project when the theoretical design is turned out into a working system. Thus, it can be considered to be the most critical stage in achieving a successful new system and in giving the user, confidence that the new system will work and be effective. The implementation stage involves careful planning, investigation of the existing system and its constraints on implementation, designing of methods to achieve changeover and evaluation of changeover methods. 7.2 Sample code for Main screen (Hospital.java): package Main; import javax.swing.ImageIcon; public class Hospital extends javax.swing.JFrame { public Hospital() { initComponents(); ImageIcon ic = new ImageIcon(getClass().getResource("/Images/hospital.png")); this.setIconImage(ic.getImage()); } } @SuppressWarnings("unchecked") // private void initComponents() { MainF = new javax.swing.JPanel(); jPanel4 = new javax.swing.JPanel(); adminIcon = new javax.swing.JLabel(); adminLabel = new javax.swing.JLabel(); Page 11 17. "Hospital Management System" PDEA COE, Department of Computer Engineering 5. REQUIREMENT SPECIFICATION 5.1 Hardware specification: The most common set of requirements defined by any operating system or software application is the physical computer resources, also known as hardware. A hardware requirements list is often accompanied by a hardware compatibility list (HCL), especially in case of operating systems. An HCL lists tested, compatibility and sometimes incompatible hardware devices for a particular operating system or application. The following sub-sections discuss the various aspects of hardware requirements. Hardware requirements for present project: Processor : Intel core i3 RAM : 4GB Hard disk : 1TB (Minimum 80GB) 5.2 Software specification: Software Requirements deal with defining software resource requirements and pre-requisites that need to be installed on a computer to provide optimal functioning of an application. These requirements or pre-requisites are generally not included in the software installation package and need to be installed separately before the software is installed. Software requirements for present project: Operating system : Windows 7, 10 Front-end : Java Back-end : MySQL Development environment/tools: NetBeans IDE 8.2 & Xampp Page 8 14. "Hospital Management System" PDEA COE, Department of Computer Engineering 6. SYSTEM DESIGN 6.1 Use case diagram: Page 9 15. "Hospital Management System" PDEA COE, Department of Computer Engineering 6.2 E-R diagram: Page 9 15. "Hospital Management System" PDEA COE, Department of Computer Engineering

9. CONCLUSION Since we are entering details of the patients electronically in the "Hospital Management System", data will be secured. Using this application, we can retrieve patient's history with a single click. Thus, processing information will be faster. It guarantees accurate maintenance of Patient details. It easily reduces the book keeping task and thus reduces the human effort and increases accuracy speed. Hospital Management System is essential for maintaining detail about the Doctor, Patient, Hospital staff etc. we understand that by using of Hospital Management System project the work become very easy and we save lot of time. Thus, hospital administrators would be able to significantly improve the operational control and thus streamline operations. This would enable to improve the response time to the demands of patient care because it automates the process of collecting, collating and retrieving patient information. Accounting sometimes becomes awfully pathetic and complex. This product will eliminate any such complexity. Page 32 38. "Hospital Management System" PDEA COE, Department of Computer Engineering REFERENCES ➤ Binstock, Andrew (May 20, 2015). "Java's 20 Years of Innovation". Forbes. Archived from the original on March 14, 2016. Retrieved March 18, 2016. ➤ Herbert Scheldt, Java Complete Reference, Fifth Edition, Tata McGraw Hill Edition. ➤ Gosling, James; Joy, Bill; Steele, Guy; Bracha, Gilad. "The Java Language Specification, 2nd Edition". Archived from the original on August 5, 2011. Retrieved February 8, 2008. ➤ "MySQL 8.0 Release Notes". mysql.com. Retrieved 29 July 2019. ➤ ➤ ➤ Page 33