IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
Volume 2, Issue 1, August 2022
Impact Factor: 6.252

Blood Bank Management System

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Abstract: *Blood Bank Management System is a browser-based system that is designed to store, process, retrieve and analyse information concerned with the administrative and inventory management within a blood bank. This project aims at maintaining all the information pertaining to blood donors, different blood groups available in each blood bank and help them manage in a better way. Aim is to provide transparency in this field, make the process of obtaining blood from a blood bank hassles free and corruption free and make the process of obtaining blood bank management effective. our client is not interested in blood stocking instead we are stocking blood donor's information. The donors who are interested in donating blood has to register in the database. There is no storage of blood so no complications in the database. The software is fully integrated with customer relationship management as well as content management system solution. It is developed in a manner that is easily manageable, time saving and relieving one from manual works.*

Keywords: Blood group, Patients, Donate, Donor

I. INTRODUCTION

The "Blood Bank Management System" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and, in some cases, reduce the hardships faced by this existing system.

Moreover, this system is designed for the particular need of the company to carry out operations in a smooth and effective manner. The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system.

Thus, by this all it proves it is user-friendly. Blood Bank Management System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus, it will help organization in better utilization of resources. Every organization, whether big or small, has challenges to overcome and managing the information of Donor, Blood Bank, Blood, Patient, Blood Group. Every Blood Bank Management System has different Blood Bank needs; therefore, we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with the right level of information and details for your future goals. Also, for those busy executives who are always on the go, our systems come with remote access features, which will allow you to manage your workforce anytime, at all times. These systems will ultimately allow you to better manage resources

II. LITERATURE REVIEW

Throughout this study we aim to find a solution that will assist blood centres as well as patients and willing blood donors alike. In order to reach that goal, plenty of effort has been devoted to studying existing research in this area and gathering enough information to help. The concept of blood bank management systems has been the subject of a number of researches and the vast majority see computerization as an effective strategy for improvingefficiency and effectiveness in this area without considering some potential drawbacks the system might experience limited or functionalities. As a management information system, Pah Essah and Said Ab Rahman (2011) developed a blood bank management system based on information about the donor, the recipient, and the blood. We propose that the system has three modules: However, one crucial issue is left out in this approach, such as who should be responsible for administrating the system. Their system has three modules: the donor module, the patient module, and the blood module. The development of a blood bank data management system is one approach to prevent near misses and

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improve retrieval of records, according to Mail trey D Gaijjart (2002). With computerization, they assert, records can be faster retrieved which will improve operations at blood banks. By analysing supply chain management for blood and blood products Jeroen Bennie and Hein Force (2012) suggested that the process was irregular, as were demand levels for blood. Developing an effective blood bank management system would have profound implications. Last but not least, E. M. S. S. Ekanayaka and C. Wimal adharma (2015) developed a Blood Bank Management System that can collect all the blood donors in one place and inform them constantly about the opportunity for blood donation by SMS to their mobile phones. The following is a proposal for a system that would fix many of the current problems with blood bank management

III. OBJECTIVES AND GOALS

The main objective of the Blood Bank Management System is to manage the details of Blood, Donor, BloodGroup, BloodBank, Stock. It manages all the information about Blood, Blood Cell, Stock, Blood. The project is totally built at administrative end and thus only the administrator is guaranteed the access.The blood donation management system (BDMS) is a 24 × 7 system provides services to the hospitals and other users. The system is easy to maintain all the information about the blood donor. Proposed work provides services to persons who pursue donors who are willing to donate blood.

IV. IMPLEMENTATION

The website was developed using html, CSS and JAVASCRIPT for frontend and PHP for backend and MYSQL for database. This Website has admin module where he has full control to add and delete donor request, add and delete donor Donte, add and delete patients request. First the admin has to login and admin can view all the details of blood availability. admin can see all donor and patients request history. The results of the blood bankare displayed in bar graph format

V. DATA FLOW DIAGRAM

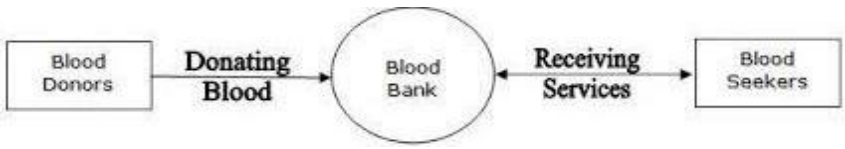

Fig 5.1

VI. CONCLUSION

The system reflects the full requirements of the organization as it was required. The research was successful but with many challenges. The time frame for the research was limited and it was not easy to come up with an all-inclusive list of requirements for the organization. Financial constraints were also a great challenge as not much was available for us to carry out our mandate effectively. Software acquisition necessary to build the system like Microsoft Visual basic and MySQL server software's were not easy to get and they also needed expertise to use. There also were great lessons learnt as well concerning good time management, thorough requirements analysis and preparedness in terms of tools for development.

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