



DEVELOPMENT OF ONLINE BLOOD BANK MANAGEMENT SYSTEM

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ABSTRACT: -The Online Blood Bank Website is a sincere effort of erasing all process revolving around receiving and donating blood. The website enables the user to easily access information regarding the availability of blood types in different blood banks across the state, along with the date of donation of blood and an option to schedule a voluntary blood donation. Blood is essential is almost every surgical process that is carried out. The number of patients who need blood is increasing day by day due to advancements in medicine and technology, but there still exist problems like shortage and non-availability of blood. Motivating the people for blood donations alone won't be beneficial until a proper blood management system is developed. The goal of this project is to provide the people with a single solution to all the blood donating and receiving problems all at one place in a single click. The website will include everything from registering an individual online to donate blood to searching nearby blood banks for checking the availability of blood all of this online thus being a time saver and a great helper.

1. INTRODUCTION

This Blood Bank system is online web-based project. Today you can easily connect with anything through internet services. So online platform is the best choice for our project. Smart Blood Bank is aims serving for human welfare. We have all the information; you will ever need. Many people are here for you, to help you, willing to donate blood for you anytime. We have done all the job, rest is yours. search the blood group you need. You can help us by registering on Smart Blood Bank if you are willing to donate your blood when needed. As a proud member of Smart Blood Bank and a responsible human being, you can help someone in need. So, donate blood in online. Person who needs to donate blood may register on our website with the help of username and password. The persons who need blood donor, they can search and find blood donors by using our website. After searching, a list of donors will be displayed and user can get brief details about their contact details, email including their location, so they can communicate.



Fig1. Online blood

This project is mainly towards persons who are willing to donate blood to the patients. Through this system it will be easier to find a donor for exact blood type and easy to build the connection between donor & the blood bank authorities. The main intend of building this software is too formal the procedure of blood donation & motivate donors in order to donation blood. We have tried to maintain all those information of donor which is easily understandable to the doctors which makes them easy to find the donor

2. LITERATURESURVEY

Now technology is growing faster in this 21st century. Today's generation depends on advanced technologies and most people use the advanced technologies to their everyday life like smartphones and so on. Today most people have their own android Smartphone. In this paper, we have mentioned about the idea to develop an android application based on blood bank management system. By using this application, we can reduce the communication gap between the blood Donor and blood bank. Blood bank management system is already available as the web-based application with Fewer facilities. In Blood bank management system, we are providing the solution by both web and mobile. In our project, the information is sent in the way of SMS. The blood donor can gain the information from the SMS like camp details. We are going to develop our system as an android application and website. Nowadays, the blood preservation plays a major role. The blood is preserved in the blood banks and it can be used later. The details about the blood preserved according to the blood group are hard to predict with the help of our proposed system and the user can search nearby blood banked blood group details as fast as possible. According to our proposed system, the user who needs blood can easily search for the required blood group details from the blood bank. In our proposed system, the user can post blood request either in the app or on the website. The blood donor will see it and the blood will be delivered to the user at the correct time. Our project connects various blood banks available at various places. The main aim is to interconnect with various blood banks and communicate with other blood banks. It helps to save the life of the people who are in an emergency. In our project, the details of the blood donors, blood and blood bank where the blood is consumed are stored in our centralized server. The website and app are used to monitor the details without any redundancy of the data

3. PROPOSED METHOD

Today, most of the people use advanced technologies in their daily life like Internet, Smartphone. The donor has to register himself to use this improved system. In improved system, doctor and donor can check blood availability details in a blood bank. The blood bank will send a notification to donor regarding Donation camps or Emergency donation. It enables monitoring of the results and performance of the blood donation activity. They are providing the efficient search who needs the blood as fast as possible. The main purpose of E-blood bank is to interconnect all the blood banks of the state into a single network, such system is able to assemble all the data of each and every individual into legible reports to support decision making from effective donor screening to optimal blood broadcasting in the field. The data which is stored on the computing devices will help the public for easy access to the blood availability status in blood banks on fingertips so that he can place a request or notify particular blood group in nearby blood bank (Especially rare groups) save a valuable life. The details of the blood banks, hospitals etc. will be saved in a database and only the admin will have access to the database. Private and confidential data of the users can only be viewed by an administrator The main aim of this project is provide the efficient application to the users. For this we are going to avoid the data base maintenance manually.

4. RESULT

fig:2 This is the home page or main page of a blood bank management system. This is the main page of client side. This page includes definition of aim of project. Fig:3 This is the admin side of the project, shows all the admin page like addition, updating, deletion of the user, city, state, camps etc. Person will get the blood immediately he/she requested for the particular blood group he/she has requested

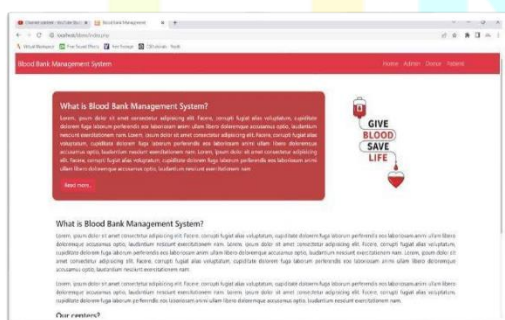


fig:2 Home page

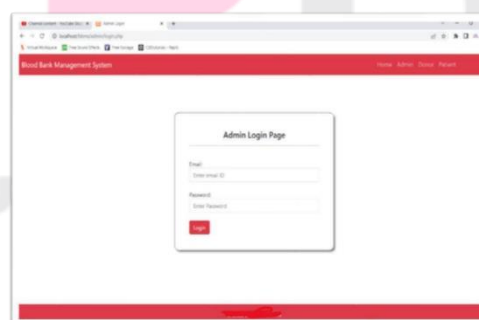


fig:3 Admin page

fig:4 This is the screen shot of admin dashboard from here admin can manage various patients and donors who registered in the web application. Fig:5 In this donor's details is available, admin can edit or delete the details.

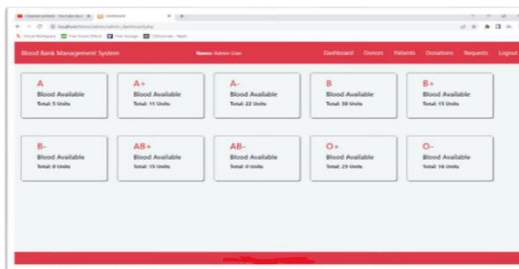


Fig:4 Admin dashboard

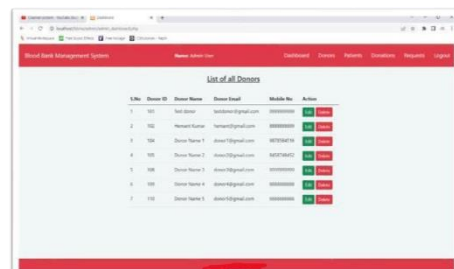


fig:5 Donor details

5. CONCLUSION

Advancement in technology is the prime reason that most of the facilities are available easily and quickly in generally all the sectors of life. Similarly, our proposed system is a major advancement in the management of blood which is intended to increase efficiency in the collecting and procuring blood. Automating the process of blood management provides a better and quick response in emergency cases. A proper management system that solves the existing issues is the concerned sector will help restoring the value of life that is currently deteriorating because of blood non-availability. The website provides a very organized medium of communication between the blood banks and hospitals. In conclusion online blood management system is a simplified solution to the problems in current blood flow process that tries to remove the hurdles in the path of having top notch as well as smooth transfer of blood.

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