Blood Bank Management System

M Sai Tarun1, S Ravi kishan2, Shaik Azaad Suraz Basha3, Shaik Raj Ahammad4, U Chandrasekhar5, Neha Bagga6 Department of Computers Science and Engineering Lovely Professional University Jalandhar, India

ABSTRACT

Despite the increasing demand for blood, only about 5% of the Indian population donates blood. Therefore, on this website, we provide a new and effective method to overcome these situations. These records contain information such as the donor's name, blood type, and email address. Then, your contact information will be displayed on the screen. If you need blood urgently, you can quickly find a contact person who matches a specific or related blood type and contact them through the blood bank website. Blood Bank Management System offers a listing of donors on your city/area. Use this app in case of emergency. Since nearly all of us incorporates a cell telecellsmartphone with him/her, it guarantees on the spotaneous monitoring and communication. This internet site will help customers effortlessly to locate donors of matching blood corporations of their vicinity and get admission to their cell numbers for fast help. Machine gaining knowledge of is used to show the maximum donated blood corporations the usage of SVM.

INTRODUCTION

In today's ordinary life, we encounter many emergency conditions like injuries that purpose bleeding and excessive blood loss. Such conditions create an immediate, important want for blood deliver of unique type as per the requirements of one in want. In addition to emergency conditions, advances in medication have increased the want for blood in lots of ongoing remedies and optional surgeries. Online Blood Bank Management System is to create an e- Information approximately the donor and enterprise which might be associated with donating the blood. The internet site application provides info of blood banks in order to know approximately the required quantity resulting in ease of get entry to for customers. The intention of the internet site app is to construct a approach to the ever-developing requirement of blood deliver due to accidents and numerous health problems, the device is developed for gaining access to statistics approximately numerous blood organizations and info on the way to know approximately their bloodstock of numerous blood organizations. The most important goal is to automate the complete operations of the blood financial institution. The Blood financial institution desires to keep thousands of records. It might additionally ease the task of trying to find blood of the specified blood organization and might immediately get the required type through this website. This is a website- primarily based totally database software machine that is to be used by the blood banks or blood facilities as a way to promote it the national blood donation occasions to the general public and on the identical time permit the public to make on line reservations and request blood. For inner works and sports in addition to for interplay with the general public.

This device additionally has the cappotential to maintain song of the donors records and the bloodstock withinside the blood bank. The technology used for the front end is HTML, Bootstrap, PHP and for the back end, MySQL is used. It consists of 4 modules: Admin, Blood Bank, Donor, and Recipient module respectively. The Admin has the get admission to to each motion that would be occurring at the website. He will have overall control over the device. The Admin has all permissions required to upgrade and replace the device. First, the Blood Bank will should sign up into the device. After registration, the Blood Bank will be required to log in. After logging in, the default values of the bloodstock will be 0 consequently The Blood Bank will have to update the shares relying on their availability. Once the shares are up to date the Blood Bank might be equipped for use. The Donor can get right of entry to the facts and information approximately the precise blood organization which he needs to donate. The donor will must check in first. After registration, the machine might tell the donor approximately the blood Group accordingly. First Recipient will must choose the blood organization. The machine will mechanically generate a desk containing their info together with the supply of blood of the required blood organization.

LITERATURE SURVEY

"Blood Bank Management Information System in India" by Vikas Kulshreshtha and Dr. Sharad Maheshwari introduces the evaluation of most important features, merits, and demerits furnished through the present Web-based Information System for Blood Banks. This have a look at describes the contrast of the numerous current gadget and offers a few greater thoughts for enhancing the present gadget. "The Benefits of Management Information System in Blood Bank" by Vikas Kulshreshtha and Dr. Sharad Maheshwari describes the advantages of control records structures in blood banks. The paper is centered on the blood financial institution control records system. It discusses the beneficiaries of the blood financial institution control records system. "Android Blood Bank" by Prof. Snigdha, Pratiksha Lokhande, Siddhi Kasar and Pranita More describes the android software which well timed updates the records concerning donors where the admin accesses the entire records approximately blood financial institution control system. The app presents a listing of blood banks relying upon the user's location. In "Optimization of Blood Donor Information and Management System by Technopedia" by P. Priya and V. Saranya, It provides blood donors with an efficient and reliable information and management system based on GIS, which has been integrated into the Android mobile application. The services provided by the proposed system are critical to the health sector, and to their health, because blood quality is viewed from the perspective of patient safety through the systematic processes performed by the blood management system. "A Study on Blood Bank Management System" by A. Clemen Teena, K. Sankar, and S. Kannan is an information control machine that facilitates to manipulate the facts of donors and sufferers at a blood financial institution. The machine will permit the legal blood financial institution officer to login the usage of a mystery password and easily manipulate the facts of the blood donors and the sufferers in need of blood. In "MBB: A Life-Saving Application" by Narendra Gupta, Ramakant Gawande, and Nikhil Thengadi, they have proposed a machine so that it will hyperlink all donors. The machine will help to control the blood transfusion service and create a database to maintain records on shares of blood in every place as records on donors in every city. Moreover, human beings will be capable of see which sufferers want blood components thru the application. They will be able to check in as donors and as a result acquire a request from their nearby customers who desires blood to donate blood in instances of want.

PROBLEM IDENTIFICATION

People who want blood are growing day via way of means of day. People who've illnesses like anemia or human beings who've gotten into injuries and run out of blood want a constant supply of blood to sustain their life and there isn't sufficient blood to be had for them. It isn't that human beings do not need to donate blood, however because they have no idea in which they could donate. It is important for the folks who are excited to donate, however but are very busy, to make sure in which and while they could donate and consequently we are

designing a device that includes all of the information concerning blood donation.

METHODOLOGY OF THE PROPOSED SYSTEM

My Internet blood bank project is to provide services to people who need blood with the help of donors who are interested in donating blood to people. The project mainly describes the following modules:

- Donor Registration
- Modifying Donor Information
- Donor Search
- Life Saving Contacts (in major cities)
- Mobilink Paging Services

These modules can be explained in detail as follows:

Donor Registration:

In this module, folks that are interested by donating blood get registered in my web website online and provide his overall info associated with him, i.e. he fills in a registration shape with the aid of using giving the general info inclusive of name, address, city, sex, wt, dob, blood group, telephone numbers, email address, etc. He turned into additionally given fields' username and password to fill such that he turned into a registered donor and he can input the login shape together along with his username and password and may regulate his info if needed.

Modifying Donor Information:

The registered donor best is capable of alter his info; no different individual can alter his info as there has been a login form which restricts others from getting into the username and password supplying high safety for the info given via way of means of the donor. If at all of the donor desires to alter his info, he become compelled to give his username and password to go into in. After giving the username and password it assessments for the donor whether he's an present donor or now no longer and if the username and password matches, he can then capable of alter his overall info. If the username and password do now no longer exist then he receives a message as 'Wrong ID and Password Entered, Try Again'.

Donor Search:

The individuals who are in want of blood can seek in our web website online for buying the information of donors having the equal blood organization and with withinside the equal town. They can without delay click on at the hyperlink seek a donor and may pick out a town call as nicely because the blood organization which he needs. He then receives the information of the donors who exist with withinside the town and the equal blood organization that he has decided on. If no suit turned into are discovered for the town and organization decided on through him he receives a message 'SORRY DONORS ARE NOT AVAILABE WITH THE FOLLOWING BLOOD GROUP AND AREA'.

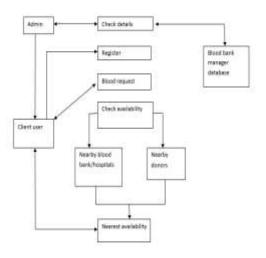
Life Saving Contacts:

If at all of the human beings on the lookout for a donor doesn't get any fit for his or her region and organization then they may be supplied a provider i.e. he may be given a Contact Person info for his or her close to via way of means of towns who've the info of many different donors with him. The human beings in seek can name him and may get the info of the donors and may be supplied offerings on this manner. But this existence saving touch humans may be to be had best for a restrained range of towns however now no longer for all. These touch humans are the authorized humans of my blood bank.

Mobilink Paging Services:

If at all of the individual looking for blood has determined any hassle in contacting the existence saving contacts i.e. the touch persons, he changed into supplied with a provider called 'Mobilink Paging Service'. The individual looking for blood changed into given a 'Mobilink' India's Largest Paging Service range such that the individual who changed into looking can name the paging provider range and may inform them the blood institution wished and the entire info from in which they are contacting. Then the 'Mobilink' will broadcast a message at the pagers in their Subscribers showing the Blood Group required, the Name of the Hospital, Contact Number, Patients Name, etc.

Block diagram



RESULTS AND DISCUSSION



Main page



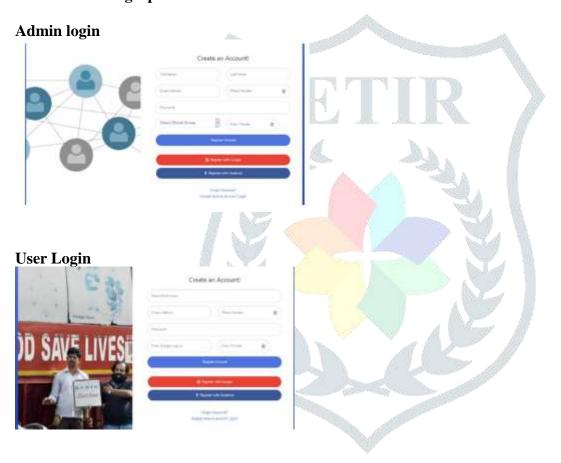
Blood bank donation



Register page



Blood available graph



Conclusion

Technology is introducing new innovations every day, thus the time required to do things is reducing day by day. The proposed Website can be used to reduce the time required to deliver required blood to the needy in cases of emergency. The Website can be used by the individuals interested in donating their blood by locating their nearest blood bank using their PIN code. The web site provides a way of communication and synchronization between the blood donars and the blood banks. It also provides them the facility of reaching out the nearby donors in emergency. The database is a vital aspect of the system. The database of the hospitals and the blood banks must be checked for consistency on regular basis for smooth working of the system. The proposed system uses PIN code which provides the user with an efficient way of locating the nearby donors/blood banks. Here, the individual can find the data of all blood groups and data of all blood banks. It saves a lot of time and last but not the least, it can save many lifes. The Website is developed using HTML, CSS, JavaScript, PHP, DBMS and MYSQL for database and SVM for data classification.

REFERENCES

- [1]. "Blood Bank Management Information System in India" by 1, Vikas Kulshreshtha, 2, Dr. Sharad Maheshwari 1, Research Scholar, 2, Associate Professor 2 1, Singhania University, Jhunjhunu, Rajasthan, India 2, Government Engineering College Jhalawar, Rajasthan, India
- [2]. "Benefits of the Management Information System in Blood Bank" by 1, Vikas Kulshreshtha, 2, Dr. Sharad Maheshwari 1, Research Scholar, 2,
- Associate Professor 2 1, Singhania University, Jhunjhunu, Rajasthan, India 2, Government Engineering College Jhalawar, Rajasthan, India
- [3]. "Android Blood Bank" by Prof. Snigdha1, Varsha Anabhavane2, Pratiksha lokhande3, Siddhi Kasar4, Pranita More5 Lecturer, Information Technology, Atharva College of Engineering, Mumbai, India 1 Student, Information Technology, Atharva College of Engineering, Mumbai, India 2,3,4,5
- [4]. The Optimization of Blood Donors Information and Management System by Technopedia P. Priya1, V. Saranya2, S. Shabana3, Kavitha Subramani4 Branch of Computer Science and Engineering, Panimalar Engineering

College, Chennai, India 1, 2, 3, 4

- [5]. "A Study on Blood Bank Management System" by A. Clemen Teena, K. Sankar and S. Kannan, Department of MCA, Bharath University, Selaiyur, Chennai-73, Tamil Nadu, India
- [6]. "MBB: Life-Saving Application" by Narendra Gupta1, Ramakant Gawande2 and Nikhil Thengadi3 1, 2, 3 Final Year, CSE Dept., DIET, Yavatmal, India.

