PLASMA DONOR APPLICATION

TEAM LEADER : KARISHMA.R
TEAM MEMBER : DHANUSREE.R
TEAM MEMBER: JANANI.V
TEAM MEMBER: JEMIMAH.J

LITERATURE SURVEY

1.Plasma Donation App

AUTHORS: Jenny Shersten

METHODOLOGY: Motivation for further plasma collection from donors for recipients, as well as fast communication with them. For both groups - always up-to-date information and the ability to follow statistics and data in the city and in the country.

DRAWBACKS : *Internet Connection is mandatory.

*Reports are not verified.

2. Plasma Donation Website using MERN stack

AUTHORS : Neha Soni ,
Software Engineering Intern at FICO | Technical BloggeR

METHODOLOGY: The person who wants to donate his/her plasma needs to register in our application providing required information which are name, age, blood group, phone number, and location, etc. Patients who need plasma can also fill the form to request the plasma. Patients can directly call the donor by taking his/her contact number from the application. The user can also view the total active cases, recovered cases, vaccine centres in their area, hospital location, and helpline number through the website.

DRAWBACKS : * It’s require an internet connection for the working of website.

* Auto-Verification: It cannot automatically verify the genuine users.

3.Optimization of Blood Donor Information and Management System

AUTHORS: K. Yamini, M.*E(CSC),SVCET, Thirupachur, India*
R. Devi, *Asst.Professor, SVCET, Thirupachur, India*

METHODOLOGY : Emergency situations, such as accidents, create an immediate, critical need for specific blood type. In addition to emergency requirements, advances in medicine have increased the need for blood in many ongoing treatments and elective surgeries. Despite increasing requirements for blood, only about 5% of the Indian population donates blood. In this paper we propose a new and efficient way to overcome such scenarios with our project. We have to create a new idea, just touch the button. Donor will be prompted to enter an individual's details, like name, phone number, and blood type. After that your contact details will appear in alphabetical order on the screen; the urgent time of a blood requirement, you can quickly check for contacts matching a particular or related blood group and reach out to them via Phone Call/SMS through. The accuracy of the location displayed on the map was beyond the scope of this Project. Only Android was used as a Mobile Operating system to test the application the Blood donor app.

DRAWBACKS : *The accuracy of the location displayed on the map was beyond the scope of this Project.

* Only Android was used as Mobile operating system to test application

4.Instant Plasma Donor Recipient Connector Web Application

AUTHORS: Ripathi S
Kumar V
Prabhakar A

METHODOLOGY: The world is suffering from COVID 19crisis, and we haven' t found any vaccine yet. But there is another scientific way from which we can help to lower the death ratio or help the COVID 19 affected person is by donating Plasma from recovered patients. With no approved antiviral treatment plan for the deadly COVID-19 infection, plasma therapy is an experimental approach to treat COVID positive patients and help them recover faster. The therapy considered to be safe and promising. If a particular person is fully recovered from COVID 19 he/she is applicable to donate their plasma. In the proposed system, donors who need to donate plasma can donate by uploading covid-19 certificate and blood bank can view donors and can raise requests to donors and the hospital can register/login and can search for plasma, they can raise requests to blood bank and can get the plasma.

DRAWBACKS : * Expensive.

* Tedious work.

* Requires more man power.
* Time Consuming

5.Blood Bank Management Information System in India

AUTHORS: Vikas Kulshreshtha ,*Research Scholar.*

Dr.Sharad Maheshwari, *Associate Professor .*

METHODOLOGY: A blood bank is a bank of blood or blood components, gathered as a result of blood donation, stored and preserved for later use in blood transfusion. To provide web based communication there are numbers of online web based blood bank management system exists for communicating between department of blood centers and hospitals, to satisfy blood necessity, to buy, sale and stock the blood, to give information about this blood. Manual systems as compared to Computer Based Information Systems are time consuming, laborious, and costly. This paper introduces the review of the main features, merits and demerits provided by the existing Web-Based Information System for Blood Banks. This study shows the comparison of various existing system and provide some more idea for improve the existing system. First I will give some basic introduction about blood banks then I will try to provide comparative study of some existing web based blood bank system. After that I will introduce some new idea for improving the existing techniques used in web based blood bank system and at end I will conclude this paper

DRAWBACKS: *Do not provide the better inventory solution to the end use

*It requires an active internet connection.

6.Plasma-Donor-App

AUTHORS: Dheeraj Kotwani
Pragathi Verma
Nuh Koch

METHODOLOGY: An Open-Source App which fills the gap between the patients and the Plasma. Donors and users are connecting with the donors for the plasma, between the time of the donar available.

DRAWBACKS: *UI improvement in Login page
*Cannot login through chrome.
*No search filter available.

7.Developing a plasma donor application using Function-asa-service in AWS

AUTHORS: Aishwarya R Gowri *Jain University, Department of MCA, computer science.*

METHODOLOGY : A plasma is a liquid portion of the blood, over 55% of human blood is plasma. Plasma is used to treat various infectious diseases and it is one of the oldest methods known as plasma therapy. Plasma therapy is a process where blood is donated by recovered patients in order to establish antibodies that fights the infection. In this project plasma donor application is being developed by using AWS services. The services used are AWS Lambda, API gateway, Dynamo DB, AWS Elastic Compute Cloud with the help of these AWS services, it eliminates the need of configuring the servers and reduces the infrastructural costs associated with it and helps to achieve server less computing. For instance, during COVID 19 crisis the requirement for plasma increased drastically as there were no vaccination found in order to treat the infected patients, with plasma therapy the recovery rates where high but the donor count was very low and in such situations it was very important to get the information about the plasma donors. Saving the donor information and notifying about the current donors would be a helping hand as it can save time and help the users to track down the necessary information about the donors.

DRAWBACKS: *It require an internet connection for the working of website.

*Handle multiple requests at the same time

8.A Study on Blood Bank Management

AUTHORS: A. Clemen Teena

K. Sankar

S. Kannan

METHODOLOGY : 'Blood Bank Information System' will be an information management system which helps to manage the records of donors and patients at a blood bank. The system will allow the authorized blood bank officer to login using a secret password and easily manage the records of the blood donors and the patients in need of blood.

DRAWBACKS: *No search filter available

* UI improvement in Login page

9.A Research Paper on Blood Donation Management System

AUTHORS: Balraj Singh
Devanja K.Srivastava
Priya Manohar

METHODOLOGY : Blood donation and transfusion has been an ever serious issue and the shortage of blood throughout the world has caused many people to lose their life. The lack of a centralized system for blood donation is majorly responsible for those losses. Now in the era of online and digital processes, the conventional methods of collecting blood are absolute. An automated system is required to manage the centers and to showcase the information to the interested parties. We have developed a website that singlehandedly solves all these issues related to blood donation and reception. We have designed a SQLite database as an integral part of the integrated framework to store historical blood donation data in a centralized database for analytical processing. The proposed system would enable people to register as a donor to make themselves available whenever in need of their blood type. We have introduced a search tab to search available people ready to donate. In our proposed system in the donor registration, health related details would be updated in the blood management system database.

DRAWBACKS: *Internet Connection is mandatory.
*There is no proper centralized database for registered donors.