

# **PLASMA DONOR APPLICATION**

## **LITERATURE SURVEY**

### **[1]. DEVELOPING A PLASMA DONOR APPLICATION USING FUNCTION-AS-A-SERVICE IN AWS**

**“Aishwarya R Gowri Jain University, Department of MCA, computer science 2021”**

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 fight the infection. In this project plasma donor application is being developed by using AWS services. The services used are AWS Lambda, API gateway, DynamoDB, 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 serverless computing.

### **[2]. A WEB-BASED BLOOD BANK SYSTEM FOR MANAGING RECORDS OF DONORS AND RECEIPTS**

**“2022 International Conference on Computational Intelligence and Sustainable Engineering Solutions (CISES) Manvir Kaur,Nahida Nazir,Navneet Kaur,Syed Faraz Ali,Chirag Agarwal,Ujjwal Dubey,Varun Gupta,Abid Sarwar,Manik Rakhra,Omdev Dahiya.”**

The Online Blood Donation Management System, the purpose of which is to act as a bridge between a person who needs blood, a patient, and a blood donor. The design of an automatic blood system has become an integral part for saving the human lives, who need the blood under different situations. Since, there are various drawbacks of the pre-existing system like privacy issues for the donors, which are getting reflected directly on the interface. Thus, we have designed a robust system that will create a connection between different hospitals, NGOs, and blood banks to help the patient in any difficult situation.

### **[3]. BLOOD BAG: A WEB APPLICATION TO MANAGE ALL BLOOD DONATION AND TRANSFUSION PROCESSES**

**“2017 International Conference on Wireless Communications, Signal Processing and Networking (Wisp NET) Rehab S. Ali ,Tamer F. Hafez, Ali Badawey Ali, Nadia Abd- Alsabour”**

Many lives could be lost due to the difficulty in obtaining a proper blood bag, Therefore, this work aims to help citizens fulfil their needs for a safe and reliable blood group by searching for and locating a specific blood group. In this paper, we illustrate the problem of the blood bags shortage which is represented in the uncontrolled blood banks and parallel markets, lack of awareness and confidence, disappearance of the rare blood groups, and the difficulty in finding a specific blood group. Hence, we proposed the Blood Bag web-based application that is connected to a centralized database to gather and organize the data from all blood banks and blood donation campaigns. The proposed application organizes and controls the whole critical processes related to blood donation, testing and storage of blood bags, and delivering it to the patient.

### **[4]. DETERMINANTS OF PLASMA DONATION: A REVIEW OF THE LITERATURE 2021**

**“Antoine Beurel ,Florence Terrade, J.-P. Lebaudy ,Bruno Danic”**

The major contribution of Human Sciences in the understanding of the whole blood donation behaviour has been through the study of individuals' motivations and deterrents to donate. However, if whole blood donation has been very widely studied in the last sixty years, we still know very little about plasma donation in voluntary non-remunerated environments. Yet, the need for plasma-derived products has been strongly increasing for some years, and blood collection agencies have to adapt if they want to meet this demand. This article aims to review the main motivations and deterrents to whole blood donation, and to compare them with those that we already know concerning plasma donation. Current evidence shows similarities between both behaviours, but also differences that indicate a need for further research regarding plasma donation.

**[5]. A STUDY OF PRIVATE DONATION SYSTEM BASED ON BLOCKCHAIN FOR TRANSPARENCY AND PRIVACY**

**“2020 International Conference on Electronics, Information, and Communication (ICEIC) Junho Jeong,Donghyo Kim,Yangsun Lee,Jin-Woo Jung,Yunsik Son”**

Donation is largely divided into sponsorship by individuals such as corporations and public administration. In the individual sponsorship, it is common to donate to a donation organization and to support the aid recipients by donation organization. Many people are reluctant to support to this donation because of the lack of transparency. In addition, many donation organizations lack transparent and formal administration due to lack of working capital. Therefore, this paper proposes a method to enhance personal transparency by enhancing the transparency of donation organizations and protecting the privacy of sponsors using blockchain that is a Hyperledger fabric.

**[6].WEB BASED ONLINE BLOOD DONATION SYSTEM**

**“ 2021 3rd International Conference on Advances in Computing, Communication Control and Networking (ICAC3N) Rohit Kumar,Rajan Kumar,Manik Tyagi”**

This paper depicts a high level program to close the hole between blood givers and individuals needing blood. The Online Blood donation Administration Framework application is an approach to synchronize blood donation centres with emergency clinics with the assistance of the Web. It is a web application where enlisted clinics can check the accessibility of the necessary Blood and can send a blood solicitation to the closest blood donation centre or comparable contributor as per the blood and can be controlled online through where fundamental. Blood donation centre can likewise send a solicitation to another blood donation centre that isn't accessible.

**[7].SMART INTELLIGENT WEB BASED ONLINE BLOOD DONATION SYSTEM**

**“2021 2nd International Conference on Smart Electronics and Communication (ICOSEC) Putcha Uma Pratyusha,Koganti Chaitanya,Amruth Saranam,Kotaprolu Manideep,S. Kranthi “**

With an increase in the need of blood donors, hospitals are facing a lot of difficulties in finding them. At present people are ready to donate blood happily and hospitals are in want of blood. So, to connect the donors and receivers in that emergency time, this research work proposes a web based online blood donation system, which provides a platform of interaction in case of emergency. The Web-based Online Blood Donation System is a webpage that lets in people who desire to give blood for the needy. This website contains information about the enrolled hospitals, organizations and the donors. In case of emergency the user provides an alert message in this website about the blood requirement and time constraint. The hospitals, organizations will get to know about the alert message and people who are willing to donate will contact the user.

**[8].PROGRESSION TOWARDS AN E-MANAGEMENT CENTRALIZED BLOOD DONATION SYSTEM IN**

**“Fawaz Alharbi Huraymila College of Science and Humanities, Shaqra University, Saudi Arabia (2019)”**

Current healthcare systems rely on blood donation to save lives. Voluntary blood donation is the main source of blood supply in many countries. However, blood donors face barriers to donating such as time constraints and the long times required to complete registration and donor health questionnaires. Thus, this paper analyses the blood donor cycle and proposes information technology solutions. Based on the analysis, a Central Blood Donation Management System (CBDMS) is proposed with interconnected systems. The proposed system is among the first e-management systems for blood donation management

## **[9]. REVIEW ON BLOOD BANK MANAGEMENT SYSTEMS**

**“Mohit, Computer Science Engineering, BPIT, Rohini, Delhi, India.2020”**

Blood is present in every human but sometimes they needed it from outer sources and if they don't get that in time then it may cost a life. To overcome this problem blood bank management systems are introduced. These systems store data of blood donors and as well as blood stored different blood banks and hospitals. So that whenever blood is required they can get access to blood easily

## **[10].BLOOD DONATION AND LIFE SAVER-BLOOD DONATION APP**

**“2016 International Conference on Control, Instrumentation, Communication and Computational Technologies (ICCICCT) M.R. Anish Hamlin,J. Albert Mayan”**

“Blood” one of the most important necessities of our life. The numbers of blood donor is very less when compared with other countries. In our project we propose a new and efficient way to overcome such outline. Such as just touch the button donor will be ask to enter an individual's details like name, phone number, age, weight, date of birth, blood group, address etc. At the emergency time of blood needed we can check for blood donor nearby by using GPS. Once the app user enter the blood group which he/she needed it will automatically show the donor nearby and send an alert message to the donor. In case if the first donor is not available it will automatically search the next donor which is present in queue. If the donor accepts the request then a one time password (OTP) will be send to the donor to verify. Blood donation app provider list of donor in your city/area. Once the donor donates the blood it will automatically remove the donor detail for next three months.