

**IDEATION PHASE**

**LITERATURE SURVEY**

**PLASMA DONOR APPLICATION**

**[1]. 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.

**[2]. 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.

**[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.

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