

# **PLASMA DONOR APPLICATION**

## **Team Members:**

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## **LITERATURE SURVEY**

**1.1 TITLE** - A Secure Cloud Computing Based Framework for the Blood bank

**AUTHOR**- Shreyas Anil Chaudhari, Shrutika Subhash Walekar, Khushboo Ashok Ruparel, Vrushali Milind Pandagale.

**YEAR**- 2018

### **DESCRIPTION :**

A blood Bank can be defined as a bank or storage place where blood is collected, preserved and used whenever needed or demanded. Everyone is aware that the traditional blood bank management system includes paperwork. Its way of working is not efficient enough at the time of emergency situations. The main aim of creating cloud-based blood bank system is to make the blood available on time to the people, even in emergency situations. With the help of this project, the user can be able to view information about every entity related to blood bank i.e. hospitals, donors, a location of another blood bank etc. The security factor is maintained properly. Every time the new user accesses the system as a donor, he/she has to register himself/herself and provide a proof of their identity like license or

government document on which the blood group of the person is mentioned. This project will consist of the android application which can be used in the smart phones; it will contain all the information of the donor and nearby hospitals. The application will also contain a GPS (Global Positioning System) system to track the location of the nearby blood banks or hospitals. Every registered user will get the notification regarding health checkup drives, blood donation camps in particular area etc. As the person did not need to go out far, for the search of the blood banks and hospitals, this application helps to save the time to a great extent. This also helps in correct and quick decision making.

**1.2 TITLE-** Design and implementation of short message service (SMS)based blood bank

**AUTHOR-** G. Muddu krishna, S. Nagaraju

**YEAR-** 2016

**DESCRIPTION :**

Short message service (SMS) blood bank provides the communication platform among the blood bank, blood donor and the person who require blood. The main purpose of the paper is to fulfill the blood request of the receptor with less hardship. In the existing systems the blood receptor will have to contact the blood bank and the blood donors individually which goes through time. Hence the proposed work aims to overcome this problem by allowing the receptor to simply send SMS in a predefined format, if the requested blood group is available at blood bank then the receptor will get contact details of the blood bank otherwise, he gets the contact numbers of the registered blood donors available at local database. The motivated individuals who are willing to donate blood can register his name by sending SMS, these data will be maintained in local database. The proposed work is implemented by using GSM modem, smart card CPU-Raspberry Pi 2 kit and IR sensors and Zigbee module.

**1.3 TITLE-** Blood donation and life saver-blood donation app

**AUTHOR-** M.R. Anish Hamlin, J. Albert Mayan

**YEAR-** 2016

**DESCRIPTION :**

Blood one of the most important necessity 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 accept the request then an 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 donate the blood it will automatically remove the donor detail for next three months.

**1.4 TITLE-** Determinants of plasma donation

**AUTHOR-** Ms. Antoine Beurel, Bruno Danic , Florence Terrade, Lebaudy.

**YEAR-** 2017

**DESCRIPTION :**

The major contribution of Human Sciences in the understanding of the whole blood donation behavior 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 behaviors, but also differences that indicate a need for further research regarding plasma donation.

**1.5 TITLE-** Lifesaver E-Blood Donation App Using Cloud

**AUTHOR-** Rishab Chakrabarti, Asha Darade, Neha Jadhav, Chitalkar

**YEAR-** 2020

**DESCRIPTION :**

E-health provides a new method for using health resources. In proposed system the aim is to provide a direct call routing technique using Asterisk hardware. A blood bank database is created by collection of details from various sources like Blood banks, NSS, NGO's, hospitals and through web interface. The data collected will be maintained in a central server. This central server will be associated with a Toll-free number that can be used to connect to it. An algorithm will be defined based on the various parameters that need to be accounted for, before blood transfer is done. The willingness of donor and the closeness of the donor to the place from where the call is coming are also accounted for in defining this algorithm. Based on the algorithm the most eligible donor is found out. From the server the call from the required person is routed to the eligible donor's number. All information about the donors and blood bank is stored on the cloud. As per blood requirement, user can quickly get notification from blood bank within the radius of 5-10km. If requested blood group is available in the blood bank then it will send positive reply message to the users. If requested stock is not available in the blood bank then blood bank send notification to all donors. If anyone is able to donate then he will reply to blood bank. This is how the proposed system will work.

**1.6 TITLE-** Enhanced Mobile Application Development For Plasma, Mother's Milk And Blood Banks

**AUTHOR-** Brindha, Priya, Ajith Kannan, Joyal Victor, Gunachandran

**YEAR-** 2021

**DESCRIPTION :**

Covid-19 is currently spreading as a deadly disease and till today no medicine has been found for this disease. Alternatively, now a day's plasma transplant surgery is also being performed rapidly. At this present time plasma banks are in short supply. Not only that, but the number of plasma donors is low too. And some people do not know what plasma donation is and where to donate plasma. We have set up a system to alleviate this situation and help needy people to identify plasma donors and plasma banks. As the world grows in this modern age, only a few babies are born prematurely without the nutrients they need to grow. Mother's Milk provides the best nutrition for those babies after birth. But babies do not even get Mother's Milk properly. So those children get many more defects and become infected. We found a news on the social media site that a woman donated her Mother's Milk to help and rectify the situation. We have set up a system to encourage that action and help them. Today mobile and mobile primarily based applications became a neighborhood of our day to day life. The main objective is to develop an Android application to build a network of people (Donors, Recipients and Health care departments) who can help each other. This automaton application is developed to simply explore for plasma, mother's milk and blood in near areas for emergency.