

# PLASMA DONOR APPLICATION

**DOMAIN** : Cloud App Development

**TEAM ID** : PNT2022TMID46004

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**PAPER 1:** Implementation of blood donation application using Android Smartphones.

**AUTHOR :** Ms. Pradnya Jagtap, Ms. Monika Mandale, Ms. Prachi Mhaske, Ms. Sonali Vidhate, Mr. S. S. Patil.

**PUBLISHED YEAR :** March 2018

Blood is an important constituent of human body. Timely availability of quality blood is a crucial requirement for sustaining the healthcare services. In the hospital, in most of the cases, when blood is required, could not be provided on time causing unpleasant things. Though donor is available in the hospital, patient is unaware of it, and so is donor. To resolve this, a communication between hospital, blood bank, donor, and receptor is important. The system listed with following forecasting on price variations and stock handling, increase in number of blood type, increase in human accident Infrastructure, blood on various category to be managed. So we solve the problem using the android application. The system will make sure that in case of need, the blood will be made available to the patient. There will be android app to make this communication faster. It aims to create an information about the donor and organization that are related to donating the blood. The methodology used to build this system uses GPS. The Proposed system will be used in Blood banks, Hospitals, for Donors and Requester whoever registers to the system.

**KEYWORDS:** Cloud Computing, GPS, Google Cloud Messaging, Clustering.

**PAPER 2:** BBMS:Blood Bank Management System using Android. **AUTHOR:**

Vaibhav Thakare, Amol Vishe, Kunal Shete, Prof. Ankit Sanghavi.

**PUBLISHED YEAR:** April -2018

Blood is one of the most important for our body. There is an expectation that the blood will always be there when it is really needed. We proposed a technique of Blood Bank system using Android application in which blood donor and blood

bank and blood donation event data will be managed online. In this application the administrator added the whole information about blood bank related to donor and stock of blood. Also user can quickly check for blood banks of nearby area in emergency situation. The main aim of our project is to bring blood bank, voluntary blood donors and those in need of blood on to a common platform. A blood bank database is created by collection of detail through app. If donor is willing to blood, he can easily find out registered blood bank through our app. Also using app user will get information of blood donation event organized by blood bank. The objective of our project is to reduce manual work of blood bank and give user information about nearest blood bank and available stock of blood to handle emergency situation.

**KEYWORDS:** Blood donor, User, Android system, Blood bank, Cloud database.

**PAPER 3:** Developing a plasma donor application using Function-as-a-service in AWS.

**AUTHOR:** Aishwarya R Gowri

**PUBLISHED YEAR:** 2020

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, 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. 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

**KEYWORDS:** Serverless, AWS, Plasma theory, Covid-19, DynamoDB, Cloud

**PAPER 4:** Instant Plasma donor recipient connector web application.

**AUTHOR:** Kalpana Devi Guntoju, Tejaswini Jalli, Sreeja Uppala, Sanjay Malliseti.

**PUBLISHED YEAR:** June-2022

The world is suffering from the COVID 19 crisis and no vaccine has been found yet. But there is another scientific way in which we can help reduce mortality or help people affected by COVID19 by donating plasma from recovered patients. In the absence of an approved antiviral treatment plan for a fatal COVID19 infection, plasma therapy is an experimental approach to treat COVID19-positive patients and help them faster recovery. Therapy is considered competent. In the recommendation system, the donor who wants to donate plasma can donate by uploading their COVID19 certificate and the blood bank can see the donors who have uploaded the certificate and they can make a request to the donor and the hospital can register/login and search for the necessary things. plasma from a blood bank and they can request a blood bank and obtain plasma from the blood bank.

**KEYWORDS:** Donor Module; Blood Bank Module; Hospital Module; Covid-19 Recovery Certificate.

**PAPER 5:** Enhanced mobile application development for plasma, mother's milk and blood banks.

**AUTHOR:** Dr. S. Brindha, Ms. D. Priya, Mr. S. Ajith Kannan, Mr. D. Joyal Victor, Mr. R. Gunachandran.

**PUBLISHED YEAR:** April-2021

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.

**KEYWORDS:** Plasma/Mother's Milk/Blood (PMB) Donor, Plasma, Mother's milk, Blood, Donor, Android application.