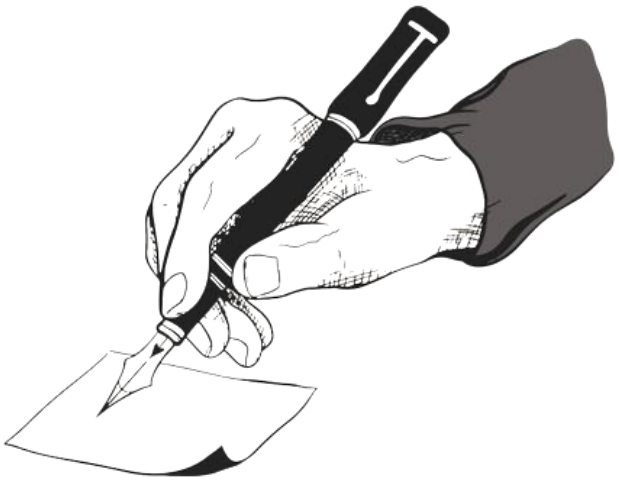
# LITERATURE SURVEY

PLASMA DONOR APPLICATION



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**Rishab Chakrabarti, Prof. S. M. Chitalkar - "Lifesaver E-Blood Donation App Using Cloud", 2020:** Reduction in the errors of blood bank using most eligible donor method. Direct Communication Between donor and the person in need of blood During the Emergency situation. However, this paper has the drawback that the user-provided information is still unconfirmed.

**A. Meiyappan, K. Loga Vignesh, R. Prasanna, T. Sakthivel - "D'WORLD: Blood Donation App Using Android", 2019:** When the giver gives the blood, it will naturally evacuate the contributor detail for next three months. It additionally confirms with the Department of Health and Welfare to guarantee the benefactor medical case history. However, this has the drawback that in order to utilize this program, the user must have a device running the Android operating system and a live internet connection.

**P. C. P. C. A. V. I. M. Yan - "Building a chatbot with serverless computing"** ***IBM Watson research center*****, 2016:** Author conducted a survey of existing serverless platform in this paper from source projects, industry, academia, use cases, and key characteristics and has described the challenges and the open problems associated with it. Authors work presented a hands-on experience of serverless technologies using different services from different cloud provides such as Amazon, Google, IBM, Microsoft Azure.

**Ashlesha C. Adsul, V. K. Bhosale, R. M. Autee - "Automated blood bank system using Raspberry PI", 2018:** When there is urgent need for blood then If this model is adopted the caller is immediately connected to the donor. However, dealing with the phone users is a drawback.

**FahimHalil, Ibrahim Cebe, Jawab Rasheed, Farzad Kiani, mHealth – Blood donation application using android smartphone:** mHealth is new horizons for health that offers healthcare services by utilizing the mobile devices and communication technologies. In health care services, blood donation is a complex process and consumes time to find some donor who has the compatibility of blood group with the patient. We developed android based blood donation application as mHealth solutions to establish a connection between the requester and donor at anytime and anywhere. The objective of this application is to provide the information about the requested blood and number of available donors around those localities. It assists the requester to broadcast the message.

**Z. Al-Ali - "Android Based Health Application in Cloud Computing for Blood Bank", 2018:** Accessibility and availability are the criteria on which an application is designed for its success in the IT market. The drawback of this is that it necessitates precise and readily available patient records.

**Sultan Turhan - "An Android Application for Volunteer Blood Donors", 2015:** This application helps health care centers to provide the blood as quick as possible when their stocks are insufficient. The application sends periodically actual location information of available donors to main system and the blood requests to the donors. However, this has the drawback that, in the event that blood supplies are inadequate, the only source of blood supply will be the voluntary blood donations made by visitors to the health center.

**Catassi, C. A., Petersen, E. L - "The Blood Inventory Control SystemHelping Blood Bank Management Through Computerized Inventory Control", Transfusion, Vol. 7, No. 60, 196:** In this article, Catassi and Petersen described computerized blood bank inventory. The purpose is to control the distribution of blood bank and hospital. It is possible to monitor daily blood status.

**Aishwarya, R Gowri – "Developing a Plasma donor application using Function-as-a service in AWS":** A plasma is a liquid portion of the blood, over55% of human blood is plasma. Plasma is used to treat various infectious diseases and itis 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.

**Sultan Turhan, "An Android Application for Volunteer Blood Donors", Computer Science & Information Technology- CSCP, pp. 23–30, 2015:** The smartphone application is being developed to allow searching for voluntary donor nearby, followed by communication between donor especially on the emergency situations.