

PLASMA DONOR APPLICATION

Literature Review.

S NO	TITLE	Authors	Abstract	Drawbacks
1	Developing a plasma donor application using Function-as-a-service in AWS	Aishwarya R Gowri, Jain University Department of MCA, computer science	<p>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.</p> <p>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. Situations like if the donor count is very low, it is very important to get the information about the</p>	<ul style="list-style-type: none">• Internet: It would require an active internet connection• Auto-Verification: It cannot auto verify the genuine users.



			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.	
2	Enhanced Mobile Application development for Plasma, Mother's Milk and Blood Banks	Dr. S. Brindha, Ms. D. Priya, Mr. S. Ajith Kannan, Mr. D. Joyal Victor, Mr. R. Gunachandran	<p>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.</p> <p>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</p>	<ul style="list-style-type: none"> • Tedious work. • Expensive. • Requires more man power. • Time Consuming.



			<p>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.</p>	
3	Instant Plasma Donor Recipient connect or Web application	Kalpana Devi Guntaju, Tejaswini Jalli, Sreeja Uppala, Sanjay Malliseti	<p>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</p>	<ul style="list-style-type: none"> • It requires an active internet connection • It cannot automatically verify the genuine users.



			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.	
4	Nearest Blood & Plasma Donor Finding: A Machine Learning Approach	Nayan Das, MD. Asif Iqbal	The necessity of blood has become a significant concern in the present context all over the world. Due to a shortage of blood, people couldn't save themselves or their friends and family members. A bag of blood can save a precious life. Statistics show that a tremendous amount of blood is needed yearly because of major operations, road accidents, blood disorders, including Anemia, Hemophilia, and acute viral infections like Dengue, etc. Approximately 85 million people require single or multiple blood transfusions for treatment. Voluntary blood donors per 1,000 population of some countries are quite promising, such as Switzerland (113/1,000), Japan (70/1,000), while others have an unsatisfying result like India has 4/1,000, and Bangladesh has 5/1000. Recently a life-threatening virus, COVID-19, spreading	<ul style="list-style-type: none"> • Internet Connection is mandatory • Reports are not verified



			<p>throughout the globe, which is more vulnerable for older people and those with pre-existing medical conditions. For them, plasma is needed to recover their illness. Our Purpose is to build a platform with clustering algorithms which will jointly help to provide the quickest solution to find blood or plasma donor. Closest blood or plasma donor of the same group in a particular area can be explored within less time and more efficiently.</p>	
5	Implementation of Blood Donation Application using Android Smartphone	<p>Ms. Pradnya Jagtap, Ms. Monika Mandale Ms. Prachi Mhaske, Ms. Sonali Vidhate, Mr. S. S. Patil</p>	<p>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</p>	<ul style="list-style-type: none"> • No search filter available • Cannot login through Chrome • UI improvement in Login page



			<p>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.</p> <p>KEYWORDS: Cloud Computing, GPS, Google Cloud Messaging, Clustering.</p>
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