LITERATURE SURVEY ON PLASMA DONOR APPLICATION

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- During the COVID 19 crisis, the requirement of plasma became high and the donor count being low. Saving the donor information and helping the need by notifying the current donors would be a helping hand. It is very difficult find the respective blood group donors when anyone is in need. In regard to the problem faced, an application is to be built which would take the donor details store it and inform them upon a request.
- To conclude, this application helps people to receive notifications on urgent plasma and blood donation calls, know their eligibility to give blood, search for the nearest center, and reserve a convenient appointment. It also helps establish a plasma donation community through social networks such as Facebook and Twitter.

EXISTING SOLUTION:

- https://delhifightscorona.in/donateplasma/
- https://www.blood.co.uk/plasma/

REFERENCE

- https://www.researchgate.net/publication/273067813_Free_Blood_Donation_Mobile_Applications
- https://nevonprojects.com/instant-plasma-donor-recipient-connector-android-app/

TITLE AND AUTHOR(S)	YEAR	TECHNIQUE (S)	FINDINGS	PROS AND CONS
Real-time cloud system for managing blood units and convalescent plasma for COVID-19 patients Dhuha Basheer Abdulla, Mohammed Dherar Younus	2021	Cloud Computing, Smart Device Application	The process of allocating the required blood units in a timely manner became more effective, accurate, and transparent than before. Also, it is eliminated the need for human intervention in making decisions about managing blood units, resulting in increased performance.	P: Reduced cost for rented IT hardware and software compared to costs for in-house equipment. C: Increased costs of communications
Machine learning – based prediction of fainting during blood donations using donor properties Sussane Sussner, Norbert niklas, Ulrich bodenhofer	2022	Machine learning	Machine learning algorithms can establish prediction models of fainting can reduce adverse reactions during blood donation and improve donor safety and minimize negative associations relating to blood donation.	The data that support the findings of study are available from the red cross upper, but restrictions apply to the availability of these data

Instant plasma donar recipient connector web application Kalpana Devi Guntoju, Tejaswini Jalli, Sreeja Uppala, Sanjay Mallisetti	2022	Cloud Computing, Mobile computing	After running the code, the URL is displayed and the user needs to paste the URL into the browser. At the end of the URL, you need to add the donor login to open the donor page, b-bank login for the blood bank page, and h login for the hospital page. Donors who wish to donate plasma can donate by uploading their COVID19 recovery certificate on the donor's page. If the donor is new, they must register before log in. If the donor is an existing user they need to login. Username and e-mail provided at the time of registration. After the donor login to the page, the website will display as below.	P: It is a user-friendly application. C: It cannot auto verify user genuineness.

BLOODR: blood donor and requester mobile application Vamsi Krishna Tadikonda, Hosam El-Okla	2017	Ruby programming language, JavaScript, PostgreSQL	If a patient needs a blood at a clinic, blood donors in vicinity can be contacted through using a clinic management service provided in this application. Registered donors will get notification for the blood requests only if their blood group is compatible with the requested blood type and in the same city/region. Then matching blood donors can go to the requesting clinic and donate	P: donation can save up to three lives, positive health outcomes. C: side effects like nausea, dizziness and fainting.