Ideation Phase

Literature Survey

Date	24 September 2022
Team ID	PNT2022TMID48200
Project Name	Plasma Donor Application

Literature Survey:

S.no	Title & Author	Year	Proposed System
1.	Convalescent Plasma Therapy: Data driven approach for finding the Best Plasma Donors. - M N Noorshidha, Dr.G.Aghila.	2021	The proposed system can help the health authorities approach the most probably efficient donors for the therapy rather than wasting time and test kits on a random donor who may or may not be eligible. The results from various ML algorithms trained on a synthetic clinical history dataset are examined and assessed as significant to some degree. The system has to be validated against real data to arrive at reasonable conclusions. This paper demonstrates how a data-driven solution is more beneficial than the conventional methods for donor search
2.	Nearest Blood & Plasma Donor Finding: A Machine Learning Approach. - Nayan Das, MD. Asif Iqbal	2021	Recently a life-threatening virus, COVID-19, spreading 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 donors of the same group in a particular area can be explored within less time and more efficiently.
3.	Implementation of Blood Donation Application Using Android Smartphone. - Ms. Pradnya Jagtap, Ms. Monika Mandale, Ms. Prachi Mhaske, Ms. Sonali Vidhate, Mr. S. S. Patil.	2015	The problem can be solve 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.

4.	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	2021	Most of the apps selected are available to help users search for donors. Few of the apps could not be installed and/or accessed. Of those that could be installed: half of them do not require any kind of authentication; a few of them are available in more than one language; half of them have a geographical restriction; around 60 % of them do not notify the user of BD events and requests; one, which is available for Android and iOS, can connect with a laboratory; around 45 % of them allow users to share information via social networks, and the majority of them do not provide BD recommendations. These results are used as a basis to provide app developers with certain recommendations. There is a need for better BD apps with more features in order to increase the number of volunteer donors.
5.	Instant Plasma Donor Recipient Connector Web Application - Kalpana Devi Guntoju, Tejaswini Jalli, Sreeja Uppala, Sanjay Mallisetti	2022	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.

References:

https://ieeexplore.ieee.org/document/9396012 **https://ieeexplore.ieee.org/document/9392739**

http://www.oaijse.com/VolumeArticles/FullTextPDF/253_49_E_IMPLEMENTATION_OF_BLOOD_DONATION_APPLICATION_USING.pdf

https://www.irjet.net/archives/V8/i4/IRJET-V8I4860.pdf

https://www.irjmets.com/uploadedfiles/paper/issue_6_june_2022/26076/final/fin_irjmets1655361213.pdf