Project Design Phase-I
Proposed Solution Template

Date	26 November 2022
Team ID	PNT2022TMID25179
Project Name	Plasma Donor Application
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	With rapid increase in the usage of social networks sites across the world, there is also a steady increase in blood donation requests as being noticed in the number of posts on these sites such as Facebook and twitter seeking blood donors. Finding blood donor is a challenging issue in almost every country BLOOD donor application provides a reliable platform to connect local blood donors with patients. BLOOD donor creates a communication channel through authenticated clinics whenever a patient needs blood donation.
2.	Idea / Solution description	Our Plasma donor application idea provides an easier and feasible way to find the availability of donors in one go. The following will be the features of our Project. i) A website with user interactive and responsive UI design. ii) Filtration of donors, based on the blood group and nearest distance. iii) If a donor is not available, move to the next donor. iv) Constantly update the donor and recipient about the status of the emergency until the need is fulfilled. v) Track geolocation of the Donor. vi) Note of gratitude for the donor for donating - Email, Rewards like coupons etc., vii) Emergency button – In case of any emergency the user can click the button to contact the nearest hospital. viii) Chatbot for the users to view the availability and importance of donating plasma.

3.	Novelty / Uniqueness	Geolocation of donors to locate their live location Send the note of gratitude to donors once donated Provide map support for donors to reach the hospital Finding the nearest donors using ML algorithm If desired donor not available check for the nearest donor. Note of gratitude for the donor for donating - Email, Rewards like coupons etc.
4.	Social Impact / Customer Satisfaction	In recent days, it is noticed the increase in blood request posts on social media such as Facebook, Twitter, and Instagram. Interestingly there are many people across the world interested in donating blood when there is a need, but those donors don't have an access to know about the blood donation requests in their local area. This is because that there is no platform to connect local blood donors with patients. BLOODR solves the problem and creates a communication channel through authorized clinics whenever a patient needs blood donation. It is a useful tool to find compatible blood donors who can receive blood request posts in their local area. Clinics can use this web application to maintain the blood donation activity. Collected data through this application can be used to analyse donations to requests rates in a local area to increase the awareness of people by conducting donations camps
5.	Business Model (Revenue Model)	An unpaid application exists for plasma donors. It is readily available and accessible by all. Due to the difficulty in locating donors who match a certain blood group, this application enables users to register people who wish to donate plasma and keep their information in a database. By informing the current donors of the need, saving the donor information would assist. The need for plasma increased significantly during the COVID 19 crisis, and the number of donors is limited. In the end, working with the government can use an app to aid those in need of plasma.

6.	Scalability of the Solution	Our Plasma donors application can be developed to further improve user accessibility via integrating this application with various social networks application program interfaces (APIs). Consequently, users can login and sign up using various social networks. This would increase number of donors and enhances the process of blood donation. User interface (UI) can be improved in future to accommodate global audience by supporting different languages across countries. Data scraping can be done from different social networks and can be shown in the Blood Request Feeds. Appointments can be synchronized with Google and Outlook calendars for the ease of users.