Project Design Phase-I
Proposed Solution

Date	16 October 2022
Team ID	PNT2022TMID05502
Project Name	PLASMA DONOR APPLICATION
Maximum Marks	2 Marks

Proposed Solution:

S No	Parameter	Description
1.	Problem Statement (Problem to be solved)	During the COVID 19 crisis, the need for plasma increased, while the number of donors has decreased. Plasma is necessary for the survival of people with cancer, rare disorders, immunological problems, and genetic anomalies. Every blood bank claims to be out of blood, so we need to make people aware of the issue and offer support. Numerous camps, seminars, and applications can be of great help.
2.	Idea / Solution description	Plasma donor is an application which will make things easier and efficient at crucial times and to solve our problem statement. Some of the features are: ● The user and the donor both register all relevant information. ● An email message will be issued after registration is complete. ● The user has the option of sending a request for a blood group in need or donating plasma in this. ● It contains details regarding plasma donation camps, including information about the location of the events. ● The users can choose to obtain a home sample collection as well.
3.	Novelty / Uniqueness	A visual representation that is simple for users to understand will be used to display the statistics for the blood group availability data for plasma donation. The user can send a request for plasma if they are unsure about its availability in their immediate vicinity. Whether plasma is in short supply or is more readily available, users will receive an email notification within a short period of time. If individuals sign up for our application for plasma donors and decide they want to donate plasma, they can schedule an appointment. They will obtain their e-certification for donating plasma once they have completed their session according to

		schedule. These are the innovative elements included in this.
4.	Social Impact / Customer Satisfaction	Despite the apparent abundance of resources, there are still cases where hospitals or blood banks run out of essential resources, such as specific blood type shortages. One of the major issues health facilities run into is the shortage of certain blood types. An additional problem is facilities need access to patient data as quickly as possible before beginning patient blood transfer. This application, along with all the services it provides, also helps to eradicate certain spam messages and mails circulating around regarding fake or already satisfied blood emergency situations. A single platform for maintaining all genuine blood related activities and information increases the trust of the public to get involved in these activities, and to participate in blood donations.
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	This application assists users in finding the closest blood center, knowing their eligibility to donate blood, receiving notifications when an urgent blood donation call comes in, and scheduling a convenient appointment utilizing temporal and/or spatial information. A current donor profile will be used, containing details such as the donor's present location, blood type, and the date of their most recent donation, among other things. The right donors will be cleverly informed of the demand for blood donations, making it easier to locate a local suitable donor at the right time.