Project Design
Phase-I
Proposed Solution

Date	10 October 2022
Team ID	IBMSI20220014320
Project Name	Project – Plasma Donor Application
Maximum Marks	2 Marks

Proposed Solution :

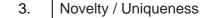| S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Many major medical conditions are treated by plasma. For this reason, blood drives are held to solicit donations of plasma and blood. One of the most well-known techniques known as plasma treatment, plasma is used to cure various incurable diseases. Plasma therapy had a high success rate but a very low donor count during these times, thus it was crucial to learn more about the donors. It would be helpful to save the contributor data and provide information about the ongoing donors because it will help clients find the crucial contributor data faster and save time.
2.	Idea / Solution description	This system's goal is to use an online application to link donors and patients. Users of this application may post requests for plasma donations or requests for services. The fundamental solution is to establish a centralized system to keep track of current and previous Plasma Donation Events. The suggested solution is as follows: This application has two roles: ■ Admin ■ User

		User:
		• Users must register with their personal information in order to give or receive.
		• Following a user's successful registration.
		• The user receives an email upon successful registration.
		• The user will be taken to the home page after a successful registration.
		• If they want to be a donor or a recipient, they must press.
		• If the user is a donor, they must fill out the donation interest form with their name, blood group information, location, the date they last contributed, a phone number, and an email address.
		• The donor will be sent to a page where they can obtain the e-certificate after completing the donation form.
		• If the user is a recipient, he or she can raise a request and get in touch with the donor immediately after viewing the list of possible donors.
		Admin:
		• Administrators can log in using their credentials.
		• Admin may change the request.
		• The request may be revoked by the administrator.
		• The admin can add volunteers.

3.	Novelty / Uniqueness	Users can easily grasp a user interface. The application is available anytime, anywhere. The user can use this application to raise a request and directly contact the donor to ask them to donate the plasma if they urgently need it for their treatment but the plasma is not available in the nearby hospitals. Hospitals may also put out a call for donors. Someone who wishes to donate blood and plasma but is unsure of how to do so uses this programme, which is easy to use and will help save many lives. Nowadays, a lot of them have smartphones on which they can download this programme and use it to save lives.
4.	Social Impact / Customer Satisfaction	Everything is accessible online because we live in a modern age. There isn't an appropriate application for plasma donation, despite the fact that there are many applications. Although many of them would like to donate blood and plasma, they are not aware of the process or how to contribute. The ability to give plasma is made available through this application. Plasma donations are being made everywhere, and although many people step forward to do so, the plasma is not always ready for use. There may occasionally be a shortage of a particular type of plasma. Before administering plasma, we require additional facilities that provide quick access to the patient's information. Software applications are used in conjunction with cloud computing and Internet of Things tools to address this problem and offer capabilities like information retrieval and ongoing data tracking with analytics. This programme prevents the spread of false information. a centralized location to save accurate information and boost participants' faith in the activity. It boosts the quantity of donors.

5.	Business Model (Revenue Model)	Everybody has access to this programme. It is available without cost. This programme allows users to add donors who want to give plasma and store their data in a data collection due to the difficulty in locating donors that match a certain blood group. Today, there is a greater need for plasma. This programme is accessible to anyone with some basic understanding. This can be applied whenever and everywhere. We can use a programme to assist folks in need of plasma by collaborating with the government.
6.	Scalability of the Solution	Instead of scouring the entire world for plasma donors, this programme enables users to find donors while sitting at home. When there is an emergency, plasma requests that everyone sends a message. When a donor is prepared to donate, the recipient is informed. Receiver may get in touch with the donor. This software helps donors find potential donors quickly and easily by letting them know if they are eligible to donate.