Project Design Phase-I

Proposed Solution

Project Title	Plasma Donor Application
Maximum Marks	4
Team ID	PNT2022TMID21617

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. Due to the lack of vaccines available to treat patients who had been exposed to the coronavirus, the need for plasma increased significantly. 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 information and let clients know about the recurring donors because it can help them find the crucial information more quickly.
2.	Idea / Solution description	This system's goal is to use an online application to link donors and patients. The users of this application can post requests for plasma donations or requirements. The fundamental solution is to establish a centralised system to keep track of current and previous Plasma Donation

		Events. The suggested remedy 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 routed to a page where they may get 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:** **1,** With their login information, admin can log in.

		2, The request may be amended by admin.
		3, The request may be revoked by admin.
		4, Volunteers can be added by admin.
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 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. Despite the fact that there are numerous applications, there is no official form for donating plasma. 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. Prior to plasma transfusion, we require additional

		facilities that provide quick access to patient 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 centralised location to save accurate information and boost participants' faith in the activity. It boosts the quantity of donors.
5.	Business Model (Revenue Model)	Everyone has access to this programme. It's free. Due to the difficulty in locating donors who match a certain blood lot, this application allows users to add donors and store their data in a data collection. The need for plasma is rising today. Anyone with a basic understanding can use this software. This can be applied at any time, anywhere. Working with the government, we can develop a programme to assist people in need of plasma.
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.