

Project Design Phase-I
Proposed Solution

Date	14 October 2022
Team ID	PNT2022TMID04368
Project Name	Project – Plasma Donor Application
Maximum Marks	2 Marks

Proposed Solution :

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<p>Many grave medical issues are treated by plasma. This is why individuals are asked to donate blood and plasma. One of the most well-known techniques known as plasma treatment, plasma is used to cure various incurable diseases. When there was a coronavirus emergency, the need for plasma increased significantly because there was no vaccine found to treat the infected patients. With plasma therapy, recovery rates were high but the donation rate was very low. In these circumstances, it was crucial to learn more about the plasma donors. It would be helpful to save the donor data and provide information about the ongoing donors because it will help patients find the crucial contributor data faster and save time.</p>

2.	Idea / Solution description	<p>This software'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 plasma requirements.</p> <p>The main solution is to establish a centralized system to keep track of current and previous Plasma Donation Events. By this software the patient's may get their donor at the correct time. The suggested remedy is as follows: This application has two roles:</p> <p style="text-align: center;">Admin and User</p> <p>User:</p> <p>Users must register with their personal information in order to donate or receive plasma. When they successfully register they receive an email after successfully registering the user will be taken to the homepage. They will be invited to choose whether they want to be the donor or the recipient.</p> <p>If the user is a donor, they will fill out the form with information including their name, blood group type, weight, age, medical condition, location, when they last donated, phone number, and email address.</p> <p>If the user is a recipient, they can express their request and after viewing the list of possible donors they can choose the plasma available that suits them or get in touch with donors.</p> <p>Admin:</p> <p>Admin can login into the website using the login credentials. They have the access to add or delete the donors and make changes to the donor information. They maintain the data of the donors and the recipient properly.</p>
----	-----------------------------	--

3.	Novelty / Uniqueness	<p>The website's front end is simple for consumers to follow. the website will be in a user friendly way. The patient can use this application to learn about the availability of donors if they need plasma but it is not offered by the neighbouring hospitals or if they do not have any other sources of plasma. If people are interested in donating plasma but are unsure of how it works, they may utilize our website to learn more and help save the lives of those who are in need of plasma.</p>
4.	Social Impact / Customer Satisfaction	<p>Everything is accessible through online mode, because we are living in a modern age. Despite the fact that there are numerous applications, there is no official app 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 process of donating and receiving plasma is done with the help of this Application easily. There are some rare plasma for which there is a shortage. Many people nowadays are interested in donating plasma. We need to access the patient and donor's information Quickly before the plasma transfusion. 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 and availability of donors at the right time.</p>

5.	Business Model (Revenue Model)	<p>Everyone can access the application at free of cost. The person who is interested in donating can add their details to the data collection from where the recipient can find their matching donors. The need for plasma is rising today. Anyone with a basic understanding of technology 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.</p>
6.	Scalability of the Solution	<p>Instead of seeking the entire world for plasma donors, this application enables users to discover donors while sitting at their convenient place. When there is an emergency, we need to send a request to every matching donor in the database. When a donor is available to donate, the recipient is contacted. Recipients may get in touch with the donor. With the use of this app, donors may determine their eligibility to donate, making it simpler to find the appropriate donor at the right moment.</p>