

Project Design Phase-I
Proposed Solution

Date	22 September 2022
Team ID	PNT2022TMID27459
Project Name	Project – Plasma Donor Application
Maximum Marks	2 Marks

Proposed Solution :

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<p>Plasma is used for the treatment of many serious health problems. During the COVID 19 crisis, the requirement of plasma became high and the donor count being low. Saving the donor information and helping the need by notifying the current donors would be a helping hand. It is very difficult to find the respective blood group donors when anyone is in need. People who need blood are increasing day by day. In regard to the problem faced, an application is to be built which would take the donor details, store it and inform them upon a request.</p>
2.	Idea / Solution description	<p>This proposed system aims at connecting the donors & the patients by an online application. By using this application, the users can raise a request for plasma donation or can give plasma donation and know the location of the user.</p> <p>The basic solution is to create a centralized system to keep a track on the donors and receivers. The recommended solution is as follows: Application contains two roles:</p> <ul style="list-style-type: none">▪ Admin▪ User▪ Hospital

		<p>User:</p> <ul style="list-style-type: none"> • The user can register or login into the app using their email or mobile number. • A successful registration email is send to the user for registered. • The user can either raise a request or donate for the requests received. • The user can check for the required plasma and they could sign up for the donation by clicking the donate button. • The receiver will get the list of donors and they can confirm the donor. <p>Hospital:</p> <ul style="list-style-type: none"> ▪ The Hospitals can register themselves and announce donation events. ▪ The Hospital can place the request on priority and can create bulk requests. ▪ It gives the details about the available plasmas. <p>Admin:</p> <ul style="list-style-type: none"> • Admin can login using their credentials. • Admin can review the request. • Admin should verify the user. • Admin can add donation events. • Admin can lace the request on priority.
3.	Novelty / Uniqueness	<p>A User Interface is simple for users to understand and interface with. We can use the application anywhere anytime. The user can use this application to raise request and directly contact the donor, request them to donate the plasma. Hospitals can also raise request donors for donation. Somebody wants to donate blood and plasma but they don't know the way to donate then they use this application which will simple to use and it will save lives of many people. Today many of them have mobile phones they can install this application and use it to save the lives of people.</p>

4.	Social Impact / Customer Satisfaction	<p>We are living in a modern and technologically advanced world where everything can be accessed online. Even though there are many applications there is no proper application for plasma donation. This application provides opportunity to those who want to donate plasma. Donation of plasma are happening in many places many of them come forward to donate but it is not available at right time for use. Sometimes there is a shortage of plasma of particular type. Additional facilities that we need is to access the patient's information quickly before plasma transfusion. To solve this issue software application are employed with Cloud computing which enable features such as information retrieval and continuous data tracking with analytics. This application only allows circulating of correct information. A single platform for maintaining genuine information and increase the trust of participants involved in this activity. It increases the number of donors.</p>
5.	Business Model (Revenue Model)	<p>This application is accessible by everyone. It is free of cost. Because of the trouble in finding givers who match a specific blood bunch, this application empowers clients to enlist individuals who wish to give plasma and keep their data in a data set. Nowadays the need for plasma increases. Anyone with basic knowledge can access this app. This can be used anywhere anytime. working with the government we can utilize an application to help those needing plasma.</p>
6.	Scalability of the Solution	<p>This application helps users to find plasma donors by sitting in home itself instead of searching donors everywhere such as in blood banks etc. When there is an emergency then plasma request can be send to everyone. Once the donor is ready to donate receiver is notified about donation. Receiver can contact the donor. With this app donor can know the eligibility to donate and making it easier to locate suitable donor at right time.</p>