Project Design Phase I
Proposed Solution

Date	11 October 2022
Team ID	PNT2022TMID12996
Project Name	Project – PLASMA DONOR APPLICATION
Maximum Marks	2 Marks

Proposed Solution:

S. No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Ever since the pandemic struck the world, the requirements of blood and plasma donations have risen. But the resources pooled to enable the donations and requests have not been worked upon. Hence the existing systems and solutions have been handling an increase in demand with the same resources.
2.	Idea / Solution description	Our unified platform is aimed at all donors and requesters so they can communicate easily. Donors can be registered, verified and listed on the platform database. Patients or people in urgent need of plasma can use their location and other attributes to find a compatible plasma donor match right in time.
3.	Novelty / Uniqueness	Donors and requesters are required to be verified before they can use the application so spam and fake information can be avoided as much as possible. The app also lets people track all the logistics of the process right from their mobile phone.
4.	Social Impact / Customer Satisfaction	Although this benefits the donors by offering them a universal location to list themselves, it poses a more significant impact to the patients who can find the resources they need in a way smaller timeframe. Patients and requesters don't have to be mentally pressured and frustrated about being able to find a compatible donor before it is too late.
5.	Business Model (Revenue Model)	The app is free to install and use, for donors and patients alike. Patients however have to pay for the plasma they acquire.
6.	Scalability of the Solution	By using the cloud, scalability of this application is improved significantly. All real time data is updated to the cloud server which is being accessed concurrently. More data can be stored on the servers on demand by adding more storage, more requests can be processed by increasing computational power and network throughput.