

# Project Design Phase - 1

## Proposed Solution

Date	01 October 2022
Team ID	PNT2022TMID06801
Project Name	Plasma Donor Application
Maximum marks	2 marks

### Proposed Solution:

S.No	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ol style="list-style-type: none"><li>1. Donor needs to know about plasma requests so that he can save one's life.</li><li>2. Donor needs to know about the hospitals and blood banks information that are present in his vicinity.</li><li>3. Plasma requesters need to pass the request to many people as soon as possible so there is a greater chance that his life can be saved.</li><li>4. User who gets email alerts will also get update email upon successful donation so that others don't waste time on trying to reach the clinic and sharing expired requests.</li><li>5. Only clinics/hospitals can make requests so credibility of the information is maintained.</li><li>6. Truthful information makes users donate without any hesitation.</li><li>7. Request emails are sent based on location and blood group so others won't get disturbed.</li></ol>
2.	Idea / Solution Description	<p>This <b>Plasma Donor application</b> project is aimed at developing a web application that connects plasma requesters directly to donors and make their needs fulfill as soon as possible. This web application gets basic information of donors and requesters and store it in a database. When a patient needs plasma of any blood group in any place, he/she will make a request through their admitted hospital in this application. Following the request, an alert mail will be sent to the donors with that specific blood group and are located around the hospital area. On receiving the mail, eligible and interested donor will go to the hospital and donate plasma. After successful completion of plasma donation, an update mail will also be sent to those whose</p>

		received alert mail regarding the fulfilled plasma need.
3.	Novelty / Uniqueness	Only hospitals can request plasma on this application for patients. Therefore, the information received is credible. Donor will get requests based on their blood group and location. If someone fulfilled the plasma request or if requester cancelled the request, an update mail is sent to users.
4.	Social Impact / Customer Satisfaction	People are unaware of plasma donation, its importance and eligibility of donation. This application a platform to those who want to donate plasma. This application avoids circulating of wrong information. This platform maintains genuine information and increases the trust of users. This increases the number of donors and resulting in sufficient availability of plasma.
5.	Business Model (Revenue Model)	This application shall be available for free. It has to be used by most of the people. We can request the government for funds for domain registering and hosting costs.
6.	Scalability of the Solution	This application assists users in finding the closest blood centre, knowing their eligibility to donate blood. A current donor profile will be used, containing details such as the donor's present location, blood type, and the date of their most recent donation, among other things. The right donors will be cleverly informed of the demand for blood donations, making it easier to locate a local suitable donor at the right time.