

**Project Design Phase-I**  
**Proposed Solution**

Date	19 September 2022
Team ID	PNT2022TMID25781
Project Name	Plasma Donor Application
Maximum Marks	2 Marks

**Proposed Solution:**

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul style="list-style-type: none"> <li>Difficulty in finding the genuine contact details of both patients and the plasma donors.</li> </ul>
2.	Idea / Solution description	<ul style="list-style-type: none"> <li>The user interacts with the application. Registers by giving the details as donor. The database will have all the details and if a user posts a request then the concerned blood group donors will get notified about it.</li> </ul>
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> <li>Donors can access the application only after proper registration with contact details.</li> <li>Donors would be notified by an E-mail alert if there is a need for plasma in their blood group.</li> <li>Patients can contact the donors directly if their request has been accepted by them.</li> </ul>
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> <li>The high demand of plasma will be met and help those who are in need.</li> <li>It is a user-friendly application.</li> <li>The donors are authorized and genuine.</li> </ul>
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> <li>The application can be used by any hospital and can have proper connectivity between its branches in a particular geographic region.</li> </ul>
6.	Scalability of the Solution	<ul style="list-style-type: none"> <li>Application uses <b>IBM DB2 and IBM object storage</b>, a relational database management system, that is built to store and retrieve the data of plasma donors efficiently and can handle a large amount of data.</li> <li><b>Kubernetes</b> is used which is cost effective and has the ability to run on any kind of infrastructure.</li> </ul>