

Project Design Phase-I Proposed Solution

Plasma Donor Application

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Proposed Solution:

S .No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To develop a web application that would allow users to donate their plasma to people who will most likely need it during an emergency. An automatic mail will also be sent to donors nearby regarding the same.
2.	Idea / Solution description	The application will allow users to register themselves on the portal for plasma donation so that recipients who require it can view their information and obtain the plasma. In addition, the hospital will automatically send a message to the closest donor to make the process easier.
3.	Novelty / Uniqueness	<p>The app contains an entire medical unit in a single tap. Apart from normal blood donation, it maintains the person's medical records and history and intimates them once they are eligible for the next blood donation.</p> <p>It also sends an automated mail to the donors in case of an emergency in a hospital nearby for blood. Incase the donor accepts, his/her details are sent to the family/person requesting the same.</p> <p>Presence of a SOS feature for emergency plasma requirement</p>
4.	Social Impact / Customer Satisfaction	Anyone with a basic understanding of mobile/computer applications may use the program. A lesson will also be available for convenience of access in addition to that. The software easily connects the plasma donor, the recipient, and the hospitals that need or want plasma.
5.	Business Model (Revenue Model)	The application is under the healthcare category and is free to use. It benefits those who desire to provide plasma to others in need. Data may be kept in the cloud using IBM DB2, which lowers the overall cost of creating the application.
6.	Scalability of the Solution	The programme will remain effective even when used by many users since its data will be stored on the cloud. The mail notification system will continue to function normally even when the number of requests for plasma rises.