PROBLEM DESIGN PHASE-I
Proposed Solution

❖ **Project details:**

Project name:	Plasma donation application
Project members:	1) Amarnath 2) Mahadevan 3) Mohammed Ashik 4) Dinesh Kumar
Project mentors:	• Industry mentor(s)- Navya, Sandeep Doodigani • Faculty mentor(s)- Rajasekar M

❖ **Proposed solution:**

No.	Parameter	Description
1.	Problem statement (problem to be solved)	With the number of people affected by COVID-19 infection the demand for the plasma of recovered patients has gone up tremendously. This creates chaotic situation for everyone as this is very crucial because this may risk many lives. So, this situation needs a systematic and quick solution. Searching eligible donor would surely be strenuous job.
2.	Idea/ Solution	Smart application would be the perfect solution to manage donating and searching donors for plasma. So, this application searches perfect donor. The system works with the registration of a donor by providing the required details that gets stored in the database.
3.	Novelty/ Uniqueness	There exist applications that allow donors to register for donations.

		But out application also allow patients to register and the application searches the most eligible donor.
4.	Social impact/ Customer satisfaction	Due to Covid-19, supply to the plasma demand became a serious issue. This application aims to ease the procedure of finding the most eligible donor for the patient. Now the user will be able to donate and receive plasma donation with a lot of ease.
5.	Business model (revenue model)	• Key partners: SSN and IBM both together will work to develop the application • Key resources: Resources for development are IDEs, IBM's database, several software, etc • Activities: The main activities include development of the application using flask, interfacing with IBM db2, SendGrid and hosting it on cloud. • Value proposition: Users will get a friendly GUI and will serve all the tasks. Data will be secure and privacy will be maintained. • Cost structure: No such cost is required. IBM provides the software. Except that, some software may require payments. • Revenue streams: NA • Customer segments: students, medical professionals, patients, donors • Customer relationships: There will be confidentiality within the users. All users will be treated with fair means. • Channels: The website application will be hosted on various social media platforms.
6.	Scalability of the solution	The application will be scalable in future also. This application could be used by NGOs and govt hospitals. Further, developers need to maintain and update the website for future requirements. New features will promote the application and will further attract more users.