Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	03 October 2022
Team ID	PNT2022TMID53045
Project Name	Project – Plasma Donor Application
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Search for donor	Search result can be viewed in a list. Each element in the list represents a specific donor with the donor details.
FR-4	Administrator	Monitor the overall functionalities of the application and ensure quality of service
FR-5	Send Request	If plasma is required, the receiver will contact the donor
FR-6	User Credentials	Operator has registered then the software operator should be able to login to the web application. The login information will be stored on the database for future use.

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Plasma donor Application is very useful to the emergency situation patient, because that application gives the information of the nearby plasma donors and request to donate their plasma to patient via email, SMS etc.
NFR-2	**Security**	Very secured website and application that provides various security features like 2 step verification, Email Verification, OTP password etc
NFR-3	**Reliability**	The plasma donor application should work properly, even when faults occur.
NFR-4	**Performance**	The plasma donor application must perform well in different scenarios. The Load Time should be less and there needs to be quick response to the request saying that delay is less.

NFR-5	**Availability**	The system should be available all times, meaning the user can access it using application. In case if a hardware failure or database corruption ,a replacement page will be shown. Also, in case of a hardware failure or database corruption, backups of the database should be retrieved from the application data folder and saved by the administrator. Must be available in 24/7
NFR-6	**Scalability**	In the application to handle an increase in workload without performance degradation, or its ability to quickly enlarge. The solution must allow the hardware end of the deployed software services and components to be scaled horizontally as well as vertically.