

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

Date	20 October 2022
Team ID	PNT2022TMID31636
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 Authentication	After receiving the clinic's request for plasma, the plasma bank inventory's blood or plasma stock will be checked to see if it matches the request. As a result, the Clinic will receive matched plasma units.
FR-2	Web Service Management Process	Given that the software operator has accessed the web application, registering through the web application should be possible for the software operator. The software operator for the donor must supply their first name, gender, plasma group, location, contact information, software operator name, and password.
FR-3	Data Management	Automatic creation of components from donor forms depending on the date of collection; the system also calculates the date of expiration and prevents the release of components if the unit has passed its expiration date.
FR-4	Testing	using the test data to apply the algorithms
FR-5	Confirmation	Show whether or not plasma is accessible.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Usability measures how effectively an application satisfies user and consumer needs by being user-friendly, simple to localise and globalise, accessible to people with disabilities, and producing a positive user experience overall.
NFR-2	<b>Security</b>	establishes how the system should deal with malware. How well are the system's data and its defences against intrusions? An appropriate user name and password must be used to safeguard the plasma donor application management.
NFR-3	<b>Reliability</b>	specifies the likelihood that the programme will operate flawlessly

		over a given period of time. Example: The system must function flawlessly in 95
NFR-4	<b>Performance</b>	The Plasma donor application system must perform well in different scenarios .Deals with the measure o f the system's response time under different load conditions .Example :The landing page supporting 5,000 users per hour must provide 6 seconds or less response time in a Chrome desktop browser, including the rendering of text and images. over an LTE connection
NFR-5	<b>Availability</b>	The Plasma Donor System must function without any bandwidth problems around-the-clock. stands for the user's accessibility and system reliability.
NFR-6	<b>Scalability</b>	identifies the highest workloads at which the system will still function properly. As an illustration, the system must be scalable enough to accommodate 1,000,000 simultaneous visitors while still performing at its best.