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

Team ID	PNT2022TMID26969
Project Name	Plasma Donor Application
Maximum Marks	4 Marks

Functional Requirements :

Following are the functional requirements of the proposed solution .

FR No.	Functional Requirement (E pic)	Sub Requirement (Story / Sub-Tas k)
FR- 1	User Authentication	Receiving the plasma request from Clinic, the blood or plasma stock i n the plasma Bank Inventory will be searched to match the requested plasma request. Thus matched plasma units will be sent to the Clinic.
FR-2	Web Service Management Process	Given that software operator has accessed web-application, then t he software operator should be able to register through the web a pplication. The donor software operator must provide first name,ge nder,plasma group, location, contact, software operato r name and password .
FR-3	Data Management	Automatic generation of components form donor form based on the date of collection, the system automatically derives the date of expiry and disallows issue of component if unit has expired
FR-4	Testing	Applying the algorithms on the test data
FR-5	Confirmation	Display whether Plasma is available or not

Non-functional Requirements :

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

FR No.	Non-Functional Requirement	Description
NFR- 1	**Usability**	Usability defines how well the application meets the requirements of the user and consumer by being intuitive, easy to localize and globalize, providing good access for disabled users, and resulting in good overall user experience.
NFR-2	**Security**	Defines how the system should confront the malwares. How well are the system and its data protected against attacks?The plasma donor application Management must be secured with proper user name and passwords.

NFR-3	**Reliability**	Specifies the probability of the software performing without failure for a specific number of amount of time.Example:The system must perform without failure in 95

NFR-4	**Performance**	The Plasma donor application system must perform well in different scenarios .Deals with the measure of 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	**Availability**	The Plasma donor System must be available 24 hours a day with no bandwidth issues.Stands for the system's reliability and accessibility to the user.
NFR-6	**Scalability**	Assesses the highest workloads under which the system will still meet the performance requirements.Example:The system must be scalable enough to support 1,000,000 visits at the same time white maintaining optimal performance