

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

Date	03-october 2022
Team ID	PNT2022TMID42563
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	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 get matching plasma units.
FR-2	Web Service Management Process	Software operators should be allowed to register using the web application as they have already browsed the web application. First name, gender, plasma group, location, contact information, software operator name, and password are required from the donor software operator.
03FR-3	Data Management	Automatic creation of components from donor forms depending on the date of collection, the system determines the date of expiration automatically and prevents the release of components if the unit has expired.
FR-4	Testing	Using the data collection to apply in the algorithms.
FR-5	User Confirmation	Displays whether the plasma donor 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	The application's usability determines how well it by meeting the needs of the customer and user logical, simple to localise and globally, offering good access for people who are impaired, producing positive results overall user encounter.
NFR-2	Security	It 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	Reliability	Specifies the likelihood of the programme operating without failure for a certain period of time. Example: In 95, the system must operate without failure.
NFR-4	Performance	The Plasma donor application system must function properly in a variety of settings. Concerns the measurement of the system's reaction time under various load circumstances. For example, a landing page that supports 5,000 people per hour must have a response time of 6 seconds or fewer on a Chrome desktop browser, including text and graphic rendering. using an LTE connection
NFR-5	Availability	The Plasma Donor System must be operational 24 hours a day, seven days a week, with no interruptions in service. Stands for the system's dependability and user accessibility.
NFR-6	Scalability	Determines the maximum workloads at which the system will still fulfil performance requirements. For example, the system must be scalable enough to serve 1,000,000 concurrent visits while retaining optimal speed.