

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

Date	03 October 2022
Team ID	PNT2022TMID50323
Project Name	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	User Plasma Donor Details	Donating plasma is safe and easy We will review your health questionnaire and check the veins and iron levels and pulse
FR-4	User Notification	Patient Notification system(PNS) Donor Notification

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Plasma is commonly given to trauma, burn and shock patients, as well as people with severe liver disease or multiple clotting factor deficiencies. It helps boost the patient's blood volume,

		which can prevent shock, and helps with blood clotting.
NFR-2	Security	<p>Research shows that plasma donation is safe and the National Institutes of Health (NIH) emphasize that there is no risk of getting the wrong blood back.</p> <p>The FDA of plasma donation other health authorities regulate the equipment and procedure.</p>
NFR-3	Reliability	<p>Rational use of blood and blood products to reduce unnecessary transfusions and minimize the risks associated with transfusion, the use of alternatives to transfusion where possible, and safe and good clinical transfusion practices, including patient blood management.</p>
NFR-4	Performance	<p>After donation, your body goes to work regenerating the lost blood.</p> <p>Your plasma recovers the quickest, in about 24 hours.</p> <p>The Red Cross recommends no strenuous exercise during this period until your "fluid" or plasma normalizes.</p> <p>Platelets restore next, within a 72-hour period.</p>
NFR-5	Availability	<p>Collection of blood, plasma and other blood components from low-risk, regular, voluntary unpaid donors through the strengthening of donation systems, and effective donor management, including care and counseling.</p> <p>Rational use of blood and blood products to reduce unnecessary transfusions and minimize the risks associated with transfusion, the use of alternatives to transfusion where possible, and safe and good clinical transfusion practices, including patient blood management.</p>

NFR-6	Scalability	<p>Plasma donor receive financial compensation and the plasma industry is the thriving business that results in 70% of the supply of plasma-derived therapies.</p> <p>Millions of patients in country that do not allow payment to plasma donors rely on imports of life-saving, plasma-derived medicinal products from the us.</p>
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