PROJECT DESIGN PHASE - 1

SOLUTION REQUIREMENTS (FUNCTIONAL & NON-FUNCTIONAL)

Project Title   :   Plasma Donor Application

Category   :   Cloud Application Development

Team ID   :   PNT2022TMID17803

Team Members :   Abhirami S S   (713319CS003)
                        Charu Nethra S   (713319CS025)
                        Kishore Kumar K (713319CS067)
                        Dinesh Kumar C   (713319CS508)

Faculty Mentor :   Vijayalakshmi N

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 in Web Application Registration through Gmail Registration through Google Account Registration through Mobile Number
FR-2	User Confirmation	Confirmation via Registered Email ID Confirmation via OTP
FR-3	User Check-in	In-App Registration for Donors (Interested individuals) In-App Registration for Receivers
FR-4	Donor Eligibility Check	Donor information will be collected and eligible donors will be put front for plasma donation
FR-5	Receiver - Donor Search	Receiver will search the compatible donor with their custom priority
FR-6	Confirmation	Donor information will be shared with receiver for further process
FR-7	Information Sharing	Information about blood plasma donation process, blood plasma camps, and health centers will be uploaded

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Every eligible individual can feel free to check on and register themselves for plasma donation
NFR-2	**Security**	Donor and receiver information is protected and only released upon acceptance
NFR-3	**Reliability**	Application can provide true and timely information about donors and reach receivers immediately
NFR-4	**Performance**	Application would be interactive and engaging for both donors and receivers
NFR-5	**Availability**	Available donors will be given priority based on the receivers request
NFR-6	**Scalability**	Major amount of donor or receiver information can be gathered and stored with a simple database structure.