

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

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|---------------|------------------------------|
| Date | 3 Nov 2022 |
| Team ID | IBM-Project-11855-1659348680 |
| 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 Authentication | Receiving the plasma request from Clinic, the blood or plasma stock in 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 the software operator should be able to register through the web application. The donor software operator must provide first name, gender, plasma group, location, contact, software operator 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. |

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| 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 whichthe 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. |

