Project Design Phase-II

Solution Requirements (Functional & Non-functional)

|  |  |
| --- | --- |
| Date | 03 October 2022 |
| Team ID | PNT2022TMID17544 |
| 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 | Registration through Form Registration through Gmail  Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 | Search for donor | Search result can be viewed in a list. Each element in  the list represents a specific donor with the donor details. |
| FR-4 | Administrator | Monitor the overall functionalities of the application  and ensure quality of service |
| FR-5 | Send Request | If plasma is required, the receiver will contact the donor |
| FR-6 | User Credentials | Operator has registered then the software operator should be able to login to the web application. The login information will be stored on the database for future  use. |

# Non-functional Requirements:

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

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | Plasma donor Application is very useful to the emergency situation patient, because that application gives the information of the nearby  plasma donors and request to donate their plasma to patient via email, SMS etc. |
| NFR-2 | **Security** | Very secured website and application that provides various security features like 2 step verification,  Email Verification, OTP password etc |
| NFR-3 | **Reliability** | The plasma donor application should work properly,  even when faults occur. |
| NFR-4 | **Performance** | The plasma donor application must perform well in different scenarios. The Load Time should be less and there needs to be quick response to the request  saying that delay is less. |

|  |  |  |
| --- | --- | --- |
| NFR-5 | **Availability** | The system should be available all times, meaning the user can access it using application. In case if a hardware failure or database corruption ,a replacement page will be shown. Also, in case of a hardware failure or database corruption, backups of the database should be retrieved from the application data folder and saved by the  administrator. Must be available in 24/7 |
| NFR-6 | **Scalability** | In the application to handle an increase in workload without performance degradation, or its ability to quickly enlarge. The solution must allow the hardware end of the deployed software services and components to be scaled horizontally as well as  vertically. |