

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

|               |                          |
|---------------|--------------------------|
| Date          | 21 October 2022          |
| Team ID       | PNT2022TMID06713         |
| 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 our website                             |
| FR-2   | User Confirmation             | Confirmation via Email<br>Confirmation via OTP               |
| FR-3   | Email alert                   | Using send grid to notify users                              |
| FR-4   | Eligibility of Donor          | Proper medical information must be provided by Donor         |
| FR-5   | Validation of Patient         | Plasma request must be validated properly                    |
| FR-6   | Handle User Queries           | Using a Chatbot for FAQs                                     |
| FR-7   | Donor Profile                 | Maintain and display donor's medical and contact information |

**Non-functional Requirements:**

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

| FR No. | Non-Functional Requirement | Description  |
|--------|----------------------------|--|
| NFR-1  | <b>Usability</b>           | Anyone should be able to use the product effortlessly                        |
| NFR-2  | <b>Security</b>            | Sensitive details must be store securely (like medical information)          |
| NFR-3  | <b>Reliability</b>         | Application must be usable even with lower bandwidth                         |
| NFR-4  | <b>Performance</b>         | Application must be able to perform up to at least 10,000 request per second |
| NFR-5  | <b>Availability</b>        | Application must be available for 24/7                                       |
| NFR-6  | <b>Scalability</b>         | Application must be capable of handling huge number of users                 |