

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

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| Date | 12 NOV 2022 |
| Team ID | PNT2022TMID02892 |
| 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 via Google Registration via Gmail |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP or Text Message |
| FR-3 | User login | Login through browser directly by entering username and password Login through Google |
| FR-4 | User Interaction | An application form for registration is provided to the Donors. The data is entered into the form and saved in the database. If plasma is required, the donor will be contacted using the information provided. |
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Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|---------------|-----------------------------------|---|
| NFR -1 | Usability | Building a mobile responsive web application with higher user experience and the notification will be pushed directly from the web browser to the mobile and hence we provide a user friendly environment. |
| NFR -2 | Security | User data privacy will be protected against hackers. |
| NFR -3 | Reliability | As the system provides the right tools for solving the problems it is made in such a way that the system is reliable in its operations and for securing the sensitive details. |
| NFR -4 | Performance | The system is interactive and the delays involved are less. When connecting to the server the delay is based on editing the distance of the 2 systems and the configuration between them so there is a high probability that there will be or not a successful connection in less than 20 seconds for the sake of good communication. |
| NFR -5 | Availability | The system should be available at all times, meaning the user can access it using an |

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| | | <p>application. In case of 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. It means 24 x 7 availability.</p> |
| NFR-6 | Scalability | <p>The scalability of our project is to use an online application to link donors and patients. Users of this application have the option to post a request for plasma donation or a need and a user can be a giver as well as a borrower.</p> |