**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

|  |  |
| --- | --- |
| **Team ID** | **PNT2022TMID42455** |
| **Project Name** | **Plasma Donor Application** |

**Functional Requirements**

Following are the functional requirements of the proposed solution.

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Functional Requirement** | **Description** |
| FR-1 | Access Website | * Software operator should be capable to access web application. * There should not be any limitations to access web applications. |
| FR-2 | Software operator Registration | * The software operator should be able to register to the web application. * The operator should provide the necessary details. |
| FR-3 | Login portal | * Once after the software operator has registered then the software operator must be able to login the web application. * The login information will be stored on the database for the future use. |
| FR-4 | Requesting for plasma | * The operator should be able to request for plasma. * The plasma request will be sent to the plasma bank to check the availability. * The plasma bank should be able to view received request and can search the request. |
| FR-5 | Donors List | * Based on the nearest location and matching plasma for the needy the donors list will be viewed. |
| FR-6 | Donors details | * The donor details will be send to the operator for further reference. |
| FR-7 | Distribution status | * The plasma bank should be able to view the distribution status. * If it seems to be delayed the manager should contact the donor for the updation. |
| FR-8 | Front end | * Html,CSS,Javascript |
| FR-9 | Back end | * Python, Sql\_database |
| FR-10 | IBM Cloud | * IBM DB2,Object cloud storage,Docker,Kubernetes. |

**Non-functional Requirements**

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

|  |  |
| --- | --- |
| **NFR No.** | **Non-Functional Requirement** |
| NFR-1 | **Usability** |
| NFR-2 | **Security** |
| NFR-3 | **Reliability** |
| NFR-4 | **Performance** |
| NFR-5 | **Availability** |
| NFR-6 | **Scalability** |
| NFR-7 | **Maintainability** |