

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

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| Date | 26 October 2022 |
| Team ID | PNT2022TMID49830 |
| Project Name | Visualizing and Predicting Heart Diseases with an Interactive Dashboard |
| 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 | Enables user to make registration for the application through Gmail |
| FR-2 | User Confirmation | Once after registration, the user will get confirmation via Email |
| FR-3 | Visualizing Data | User can visualize the trends on the heart disease through Dashboard created using IBM Cognos Analytics |
| FR-4 | Generating Report | User can view his/her health report and can make decisions accordingly |

Non-functional Requirements:

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

| NFR No. | Non-Functional Requirement | Description |
|---------|----------------------------|---|
| NFR-1 | Usability | The application will have a simple and userfriendly graphical interface. Users will be able to understand and use all the features of the application easily. Any action has to be performed with just a few clicks |
| NFR-2 | Security | For security of the application the technique known as database replication should be used so that all the important data should be kept safe. In case of crash, the system should be able to backup and recover the data |

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| NFR-3 | Reliability | The application has to be consistent at every scenario and has to work without failure in any environment |
| NFR-4 | Performance | Performance of the application depends on the response time and the speed of the data submission. The response time of the application is direct and faster which depends on the efficiency of implemented algorithm |
| NFR-5 | Availability | The application has to be available 24 x 7 for users without any interruption |
| NFR-6 | Scalability | The application can withstand the increase in the no. of users and has to be able to develop higher versions |