**Project Design Phase-II**

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

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| Date | 10October 2022 |
| Team ID | PNT2022TMID20641 |
| Project Name | Visualizing and Predicting Heart Diseases with an Interactive Dash Board |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Allows users to register for the application using Gmail. |
| FR-2 | User Confirmation | After registering, the user will receive confirmation via email. |
| FR-3 | Visualizing Data | Through a dashboard designed with IBM Cognos Analytics, users can see trends about heart disease. |
| FR-4 | Generating Report | The user can read their health report and take appropriate action. |

**Non-functional Requirements:**

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

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | The application will have an easy-to-use graphical user interface. Users will find it simple to comprehend and utilise all the capabilities of the application. Any activity must be carried out with only a few clicks. |
| NFR-2 | **Security** | The technique known as database replication should be utilised for the application's security to ensure the safety of all crucial data.  The system must be capable of backing up and recovering data in the event of a crash. |
| NFR-3 | **Reliability** | The application must be consistent in all scenarios and work without fail in any environment. |
| NFR-4 | **Performance** | The application's performance is determined by the response time and the speed with which data is submitted. The application's response time is direct and faster, which is determined by the efficiency of the implemented algorithm. |
| NFR-5 | **Availability** | The application must be accessible to users 24 hours a day, seven days a week, without interruption. |
| NFR-6 | **Scalability** | The application must be able to handle a rise in the number of users and generate higher versions. |