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

Date	03 October 2022
Team ID	PNT2022TMID31851
Project Name	Project - 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	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Data Preparation	After user login they can upload a dataset and prepare the data.
FR-4	Visualizing Data	Users can visualize the conditions on the heart disease through Dashboard created using IBM Cognos Analytics.
FR-5	Generating Report	Users can view health reports and can make decisions according to their corresponding health condition.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The application will have a simple and user friendly graphical interface. Users will be able to understand and use all the features of the application easily and can know about their health condition according to their heart function visualization.
NFR-2	**Security**	For Security of application, data replication technique is used. So that all the important data are kept safe. In case of any crash in the system, it should be able to backup and recover the data.Data privacy is also a kind of security provided.
NFR-3	**Reliability**	The application must be consistent at every situation and must work without any failure in any environment.
NFR-4	**Performance**	Performance of the application depends on the response time and the speed of the data submission. The application is direct and faster which depends on the efficiency of the implemented algorithm.

| NFR-5 | **Availability** | The application will be available 24x7 for users without any interruption. |
| NFR-6 | **Scalability** | The application can withstand an increase in number of users and be able to develop higher versions in future which depends on future developments in technology. |