

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

Date	14 October 2022
Team ID	PNT2022TMID06878
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	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Login	Confirmation of Gmail/username Confirmation of password
FR-4	Cyber attack	Immediate system shutdown in case of any malware attack
FR-5	Backup and storage	Patient data can be backed up into cloud server. Backup can be scheduled for regularity.
FR-6	Prediction generation	The analysis and prediction can be downloaded in various formats.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Clear user interface for easy navigation which enables easy understanding of the contents of the product.
NFR-2	<b>Security</b>	Security of the patient data will be ensured by use of various measures like firewall, security questions and account locking in case of multiple incorrect passwords.
NFR-3	<b>Reliability</b>	Product will have same efficiency even after extensive use. Percentage of probability of failure will be less. Time between critical failures will be high.
NFR-4	<b>Performance</b>	Each page of the product will load within 2 secs. Prediction will take less than 5 secs and the generation of the analysis report will be less than 3 secs.
NFR-5	<b>Availability</b>	All product modules will be highly available and can be accessed with PC and internet.
NFR-6	<b>Scalability</b>	The scalability will be to improve 10% of annual patient in the hospital