

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

Date	03 October 2022
Team ID	PNT2022TMID26984
Project Name	Project - Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral Image Representation
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
FR-2	User Confirmation	Confirmation via OTP
FR-3	user login	login with registration id
FR-4	upload ecg	read data and predict arithmetic type
FR-5	Challenges and notifications	Giving health challenges and healthy tips Remembering to take medicines Remembering to take regular checkup and doctor consultations.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Improves ease of use. Improves interest toward their own health.
NFR-2	<b>Security</b>	Uses cloud technology. The data of the user are well secured and there would be no interference into the system.
NFR-3	<b>Reliability</b>	It is a conventional referral system.
NFR-4	<b>Performance</b>	detection is faster and accurate. No fee application and could benefit users through prevention .
NFR-5	<b>Availability</b>	easily available in any areas at any time .
NFR-6	<b>Scalability</b>	scalable through tie ups with government hospitals , agri technologies or corporates.