

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

Date	14 October 2022
Team ID	PNT2022TMID03593
Project Name	Project- Classification of Arrhythmia by Using Deep Learning with 2-D ECGSpectral Image Representation
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration is done through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation through OTP
FR-3	Image upload	The user can be able to upload the pictures on the web application.
FR-4	Results	The user should be able to view the results i.e the type of arrhythmia when they upload the image of ECG.
FR-5	Authentication	The website should authenticate the users once they sign in.
FR-6	Data pre-processing	The data should be pre-processed.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The web app should be easy to learn, navigate, use and it should be user-friendly and error tolerant.
NFR-2	Security	The web application should be enough to protect the images uploaded by the users and should protect the personal details provided by the users when they sign-up.
NFR-3	Reliability	The web application should be consistent thought the results over time between users and it should provide the accurate results to each and every user.

NFR-4	Performance	The web page is to load within three seconds and be able to show the results within two thirds of the second after the images are uploaded by the users.
NFR-5	Availability	The web application should be able to show output at each all times of the day. It can be accessed through the globe.
NFR-6	Scalability	The web app should be able sustain the rapid growth for the user count and also showing in time.