

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

Date	03 October 2022
Team ID	PNT2022TMID00594
Project Name	Classification of Arrhythmia 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 Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Selection	Knowledge about ECG images Select the image to be classified
FR-4	User Input	Images need to be uploaded
FR-5	Save Image	Images are saved in uploads folder
FR-6	Report Generation	Make the complete report

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	An user friendly and simple UI web application. Easy drag and drop options.
NFR-2	Security	No third party web and UI is used for prediction of data. Details about user interaction with the web application are protected.
NFR-3	Reliability	Higher accuracy rate. Defect free.
NFR-4	Performance	Fast and quick classification of the required class is done.

NFR-5	Availability	Anyone who is authorized.
NFR-6	Scalability	Reduced traffic in case of multiple user interaction.