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

Date	17 October 2022
Team ID	PNT2022TMID35847
Project Name	Classification of arrhythmia using deep learning with 2-D ECE 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 uploaded folder
FR-6	Predict ECG image	User ECG images in our web application Collection of data sets Database read ECG images

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**	Availability describes how likely the system is accessible to a user at a given point in time and the periodically for a solutions.
NFR-6	**Scalability**	The ability of the user problem in arrhythmia disease to handle an increase in workload without performance degradation

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