Ideation Phase

Empathize & Discover

Date	14 October 2022
Team ID	PNT2022TMID36525
Project Name	Classification of Arrhythmia by Using DeepLearning with 2-D ECG Spectral Image Representation
Maximum Marks	8 Marks

What do they THINK AND FEEL?

what really counts
major preoccupations
worries & aspirations

Find out novel ways to classify Arrhythmia

Find out the right CNN Model for classification

Find out the categories (types) of Arrhythmia for classification

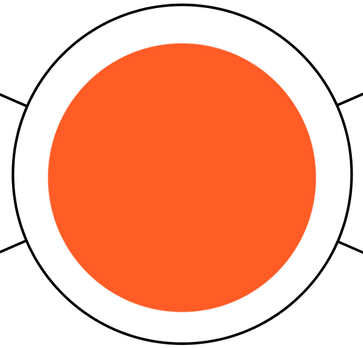
What do they HEAR?

what friends say
what boss say
what influencers say

Hands on training provided on Neural Networks

Technical Architecture to be implemented

Clear illustration of deliverables



Work environment that facilitates collaboration among teammates

Leveraging cloud technology to access resources

Integrated Development Environment provided along with support from technical staff

What do they SEE?

environment
friends
what the market offers

What do they SAY AND DO?

attitude in public
appearance
behavior towards others

Creating an application that detects Arrhythmia

Leveraging Convolutional Neural Networks

Incorporating 2-D ECG Spectral Image Representation

PAIN

fears
frustrations
obstacles

Deciding on the hyperparameters required for the CNN architecture

Final accuracy of the model

Need to focus on feature extraction of training images

GAIN

"wants" / needs
measures of success
obstacles

Thorough knowledge of Convolutional Neural Networks

Features required to be taken under consideration for 2D image classification

An efficient interface for adding input to the implemented architecture