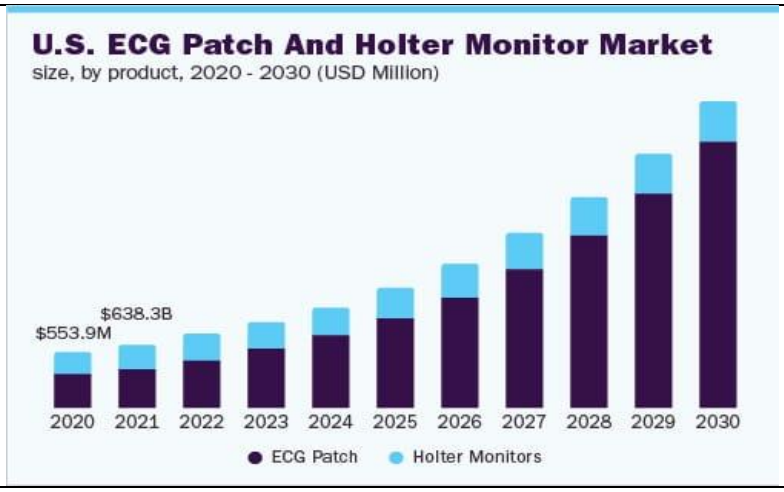
Project Design Phase-I
Proposed Solution Template

Date	1st October 2022
Team ID	PNT2022TMID44944
Project Name	Project-Classification of Arrhythmia by Using Deep Learning with 2-D ECG Spectral Image Representation
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	• To make the ECG system in fully automated manner to reduce work • Train the model using more dataset to classify the waveforms accurately
2.	Idea / Solution description	• Automated process of feature detection and extraction in providing concise and accurate results, which thusly delivered an allure in the space of heartbeat classification • Holter monitor
3.	Novelty / Uniqueness	• Using two deep neural networks in conjunction by merging them in a hierarchical layered structure to form a single robust model • Using CNN and LSTM for classification
4.	Social Impact / Customer Satisfaction	• It saves time • It increases the accuracy of classification
5.	Business Model (Revenue Model)	

6.	Scalability of the Solution	• It can handle any amount of data and classify various types of arrhythmia in fully automated manner