**Project Design Phase-I**

**Proposed Solution Template**

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| 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:**

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| **S.No.** | **Parameter** | **Description** |
|  | 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 |
|  | 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 |
|  | 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 |
|  | Social Impact / Customer Satisfaction | * It saves time * It increases the accuracy of classification |
|  | Business Model (Revenue Model) |  |
|  | Scalability of the Solution | * It can handle any amount of data and classify various types of arrhythmia in fully automated manner |