**Project Design Phase-I**

**Proposed Solution**

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| Date | 24 September 2022 |
| Team ID | PNT2022TMID49645 |
| Project Name | Project -Classification of Arrhythmia by using Deep Learning with 2-D ECG Spectral Image Representation |

**Proposed Solution:**

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| **S. No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | 1.Electrocardiography (ECG) is a method for monitoring the human heart’s electrical activity.  2.ECG signal is often used by clinical experts in the collected time arrangement for the evaluation of any rhythmic circumstances of a topic.  3.The research was carried to make the assignment computerized by displaying the problem with encoder-decoder methods, by using misfortune appropriation to predict standard or anomalous information. |
|  | Idea / Solution description | 1.Electrocardiogram signals have been widely used to identify arrhythmias due to their non -invasive approach.  2.A better alternative is to utilize deep learning models for early automatic identification of cardiac arrhythmia, thereby enhancing diagnosis and treatment. |
|  | Novelty / Uniqueness | 1.When the cardiac arrhythmia problem occur, we can find out the pulse wave in minutes.  2. It is easy to find out the cardiac problem. |
|  | Social Impact / Customer Satisfaction | 1.This can reduce the arrhythmia problem in the beginning stage by the pulse wave.  2.The user can also use the as a surveillance.  3.By the way monitor the patient. |
|  | Business Model (Revenue Model) | 1.This application will be available in the multi- speciality hospital.  2.Government providing this type service. |
|  | Scalability of the Solution | 1.This application can monitor different phase simultaneously and can detect cardiac arrhythmia with high accuracy. |