**Project Design Phase-I**

**Proposed Solution Template**

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| Team ID | PNT2022TMID16902 |
| Project Name | Classification of Arrhythmia by Using Deep  Learning with 2-D ECG Spectral Image Representation |

**Proposed Solution Template:**

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| **S.No** | **Parameter** | **Description** |
| 1. | Problem Statement (Problem to be solved) | Build an effective electrocardiogram (ECG) arrhythmia classification method using a convolutional neural network (CNN) |
| 2. | Idea / Solution description | Classify ECG using deep two-  dimensional(2-D) CNN with grayscale ECG images |
| 3. | Novelty / Uniqueness | When the image is fed into the model, The classified class will be displayed on the webpage |
| 4. | Social Impact / Customer Satisfaction | Using this Method, we can get accurate classification |
| 5. | Business Model (Revenue Model) | Creating a web application where the user selects the image which is to be classified |
| 6. | Scalability of the Solution | It can classify into seven categories, one being normal and the other six being different types of Arrhythmia |