**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 10 October 2022 |
| Team ID | PNT2022TMID16219 |
| Project Name | Project - A Gesture-based Tool for Sterile Browsing of Radiology |

**Proposed Solution:**

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| **S.No.** | **Parameter** | **Description** |
| 1. | Problem Statement | To design an ML model to identify and classify the hand gestures. |
| 2. | Idea / Solution description | To develop a CNN based classifier model, which would be trained on our training data. |
| 3. | Novelty / Uniqueness | We train a CNN based model to recognize the hand gesture. The training data include images that captures the hand gestures of 1,2,3,4,5 and 0. The image is resized without much loss of information and used for training a CNN based model. We use Python Flask to provide an interactive platform for out model. |
| 4. | Social Impact / Customer Satisfaction | This project would help the doctors in operation theatres where physical contact between persons should be avoided in order to be sterilized and also prevent from any infections. |
| 5. | Business Model (Revenue Model) | It can be sold as an open-source service to all the hospitals as a non-profitable work. |
| 6. | Scalability of the Solution | The model could also be extended to other real world classifying problems like cancer detection from X-ray, COVID detection using X-ray images, mask detection, face detection etc.. |