

**Project Design Phase-I**  
**Proposed Solution Template**

Date	30 October 2022
Team ID	PNT2022TMID20976
Project Name	Project - A Gesture-based Tool for Sterile Browsing of Radiology
Maximum Marks	2 Marks

**Proposed Solution:**

S.No.	Parameter	Description
1.	Problem Statement	To design an ML model to identify and classify the hand gestures of human being.
2.	Idea / Solution description	To develop a CNN based classifier model, which would be trained on our training data. And implemented on IBM cloud
3.	Novelty	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 Website with HTML, CSS for our model.
4.	Social Impact	This project would help the doctors in operation theatres where physical contact between persons should be avoided to be sterilized and prevent from any infections. And Time management.
5.	Business Model	It can be sold as an open-source service to all the hospitals as a non-profitable work. It will lead to big change in Tele-medicine
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, Alzheimer's disease etc..