

Project Design Phase-I
Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID13061
Project Name	A Gesture-based Tool for Sterile Browsing of Radiology Images
Maximum Marks	2 Marks

Proposed Solution :

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Using AI, create a gesture-based desktop automation and train a model that predicts hand gesture like 0, 1, 2, 3, 4 and 5.
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 capture the hand gestures of 0, 1, 2, 3, 4 and 5. The image is resized without much loss of information and used for training a CNN based model. We use Python Flask to provide an UI for our 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)	We can provide our model as an open-source. It can also be placed in private and government medical camps for subscription.
6.	Scalability of the Solution	In future, we can include face gesture detection to manipulate the image browsing.