Project Design Phase-I
Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID22258
Project Name	Project - A Gesture-based Tool for Sterile Browsing of Radiology Images
Maximum Marks	2 Marks

Proposed Solution :

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To design the AI model using hand gestures and to manipulate the sterile browsing of radiology images using CNN and Open CV.
2.	Idea / Solution description	CNN (Convolutional Neural Networks) and OpenCV are the technologies that are used. To design a web application that uses a web camera taken as an input. The images are then processed using various data processing techniques. A method to represent a live video-based hand gesture capture and recognition used to manipulate radiology images using CNN.
3.	Novelty / Uniqueness	The novelty of our project is providing the solution to keep attention between surgeon and the patient as well as maintains distance between them during surgery. This model detects six different hand gesture images to perform a task as user understandable path.
4.	Social Impact / Customer Satisfaction	The Proposed model helps the doctor stay in a place during the surgery without moving from one place to another. It also helps to prevent from infection and diseases.
5.	Business Model (Revenue Model)	To make a surgery easier with low cost of hardware and cost of processing. It can also be sold as an open-source service for all hospitals.
6.	Scalability of the Solution	This model can be helpful in real world from spreading of infections like COVID detection using X-ray, Cancers, etc..