

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

Date	19 October 2022
Team ID	PNT2022TMID03497
Project Name	A Gesture-based Tool for Sterile Browsing of Radiology Images
Maximum Marks	2 Marks

**Proposed Solution Template:**

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

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	traditional methods of human-computer interaction fail to provide an efficient method of medical image manipulation supporting users' focus of attention. With the advent of Artificial Intelligence, a new mode of interaction, Gesture-based interaction is introduced. Gesture-Based interaction provides an efficient, intuitive, accurate and safe means of interaction without affecting the quality of work.
2.	Idea / Solution description	In this Gesture based Desktop automation ,First the model is trained pre trained on the images of different hand gestures, such as a showing numbers with fingers as 1 ,2,3,4 . This model uses the integrated webcam to capture the video frame. The image of the gesture captured in the video frame is compared with the Pre-trained model and the gesture is identified. If the gesture predicts is 1 then images is blurred;2, image is resized;3,image is rotated etc
3.	Novelty / Uniqueness	This is the first time gesture based sterile browsing of radiology image is used for medical purposes that uses AI and Machine learning
4.	Social Impact / Customer Satisfaction	This solution can help society by decreasing the amount of touch surfaces which can spread diseases in a hospital environment. It would also provide a comfortable experience for the customer by being user-friendly to operate.

5.	Business Model (Revenue Model)	We can sell this application as a whole or setup a server which customers can use and setup a subscription system for the API keys for using the server providing 2 opportunities for revenue at different levels.
6.	Scalability of the Solution	The proposed solution is highly effective in the areas actions takes a great place in diagnostic centers to multispeciality hospitals