

A GESTURE BASED TOOL FOR STERILE BROWSING OF RADIOLOGY IMAGES

BY

BARKAVI.R

NITHI SNEHA.S

SUVETHA.B

YUVA SHREE.K

KARUNAPRIYA.S

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

Date	27 September 2022
Team ID	PNT2022TMID23290
Project Name	Project - 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 proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	How might we enable the contactless navigation of radiology images for treatment in medical field?
2.	Idea / Solution description	Use technology to assist doctors by taking hand gestures as input and perform necessary actions.
3.	Novelty / Uniqueness	Precise detection and recognition of the surgeon's hand gesture even when more than one hand detected.
4.	Social Impact / Customer Satisfaction	The proposed system should maintain a good balance between complexity, accuracy and applicability.

5.	Business Model (Revenue Model)	Gesture based system for sterile browsing of Radiology images is an early-stage project, which solves the difficulty of contactless image viewing system that rapidly and reliably detects and recognizes hand gestures by importing the Service Business Model Innovation in Healthcare and Hospital Management.
6.	Scalability of the Solution	The proposed approach allows the learning of new gestures with no need of recording real subjects, so it is fully scalable in terms of gestures.