

Project Design Phase-I
Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID35818
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)	To develop a sterile hand gesture model with accurate results and low processing time.
2.	Idea / Solution description	The collection of data set must be ensured with high quality and a web application is build using Good UI. Design improvement and deployment considerations are discussed. CNN model can be used.
3.	Novelty / Uniqueness	The uniqueness of our project is determining which sensor is likely reporting the most accurate pose estimation. Specifically, we observed that even in situations with high occlusion and pose estimation error, the tracking of the palm position and orientation often remained accurate.
4.	Social Impact / Customer Satisfaction	The proposed model which is cost efficient, user friendly and also enables the surgeon's focus of attention and high success rate in surgery which gives confident to the patient.
5.	Business Model (Revenue Model)	The decreasing hardware and processing costs makes the gesture recognition model more reliable. This makes the model more practical for widespread use in hospitals for easy interaction and fast response to make the surgery easier.
6.	Scalability of the Solution	With regard to image manipulation, contactless interfaces appear to be more suitable for interventional radiology units that already have a good level of scalability which increases accuracy