

Project Design Phase-I Proposed Solution Template

Date	01 october 2022
Team ID	PNT2022TMID02539
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)	Humans are able to recognize body and sign language easily. This is possible due to the combination of vision and synaptic interactions that were formed along brain development . In order to replicate this skill in computers, some problems need to be solved: how to separate objects of interest in images and which image capture technology and classification technique are more appropriate, among others.
2.	Idea / Solution description	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	Gesture based tool has been used in many sectors but for radiology for a medical use it is considered not efficient , 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 will create a impact in the health sector fast processing of medical images allows us to treat the diseases in more efficient way
5.	Business Model (Revenue Model)	Many hospitals can use this as an outtake for specially challenged people in emergency period.
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