

Project Design Phase-I
Proposed Solution Template

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| Date | 24 september 2022 |
| Team ID | PNT2022TMID07214 |
| 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) | We need to extract the hand gesture from the image first and then checkout for the movement of the hand.The problem is so simple that it can be divided onto below steps. 1)Read frame from image and extraxt region. 2)Draw pointer on the top of hand region and draw the pointer on canvas along with the pixels. |
| 2. | Idea / Solution description | We plan to design a system to solve above problem using image processing techniques and controlling the images using hand gestures. |
| 3. | Novelty / Uniqueness | These gestures help us visualize the words and also help gain the listener's attention. |
| 4. | Social Impact / Customer Satisfaction | These gestures help us visualize the words and also help in increasing meaning.while speaking making hand gestures helps you speak more quickly and efficiently. |

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| 5. | Business Model (Revenue Model) | If the hand is detected,the hand gesture model is activated to predict key points and track the position and attitude of the hand. |
| 6. | Scalability of the Solution | The goal of the project is to train a Machine learning algorithm capable of classifying images of different hand gesture,such as a fist,palm,showing the thumb and others. |