

Project Design Phase-I
Proposed Solution Template

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID39288 |
| 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) | Using AI, create a gesture-based desktop automation and train a model that predicts hand gestures like showing numbers with fingers as 1,2,3. |
| 2. | Idea / Solution description | To develop a CNN based classifier model, which would be trained on our training data. |
| 3. | Novelty / Uniqueness | We train a CNN based model to recognize the hand gesture. The training data include images that captures the hand gestures of 1,2,3,4,5 and 0. The image is resized without much loss of information and used for training a CNN based model. We use Python Flask to provide an UI for our model. |
| 4. | Social Impact / Customer Satisfaction | This project would help the doctors in operation theatres where physical contact between persons should be avoided in order to be sterilized and also prevent from any infections. |
| 5. | Business Model (Revenue Model) | We can provide our model as a open-source or we can make this project as monthly subscription for little income. |
| 6. | Scalability of the Solution | In future, we can include face gesture detection to manipulate the image browsing. |