## Project Design Phase-I Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID25369
Project Name	A Gesture-based Tool for Sterile Browsing of Radiology Images
Maximum Marks	4 Marks

## **Solution Architecture:**

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.

## Solution architecture for A Gesture based tool for sterile browsing of radiology images.

- 1. User (Doctor/Surgeon) is giving hand gestures as input to perform the certain actions such as zoom in, zoom out the image of the patients during the surgery.
- 2. In this project Gesture based project, First the model is trained, pre trained on the images of different hand gestures,
- 3. 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.

4. If the gesture predicate is 1 then images is blurred;2, image is resized;3, image is rotated etc.

