Project Design Phase-I
Solution Architecture

Date	20 October 2022
Team ID	PNT2022TMID52128
Project Name	Project – A Gesture based tool for Sterile browsing of radiology images.
Maximum Marks	4 Marks

Solution Architecture:

A complicated process with numerous sub-processes, solution architecture connects business issues with technological solutions. Its objectives are to

- a. Find the best technological solution to address current company issues.
- b. Describe to the project's stakeholders the software's structure, traits, behaviour, and other features.
- c. Define the solution's requirements, development stages, and features.

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

1. In order to accomplish specific tasks, such as zooming in and out of the image of the patient during surgery, the user (doctors/surgeons) makes hand gestures as input.

2. In this gesture-based project, the model is first trained using pictures of various hand movements.

3. The video frame is captured by this model using the built-in webcam. The gesture is recognised by comparing the image of the gesture taken in the video frame with the trained model.

4. Images are blurred, scaled, rotated, etc. if the gesture predicate is 1, and so on.