

Project Design Phase-I Solution Architecture

Date	20 October 2022
Team ID	PNT2022TMID28865
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

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

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

- 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.
- In this gesture-based project, the model is first trained using pictures of various hand movements.
- 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.
- Images are blurred, scaled, rotated, etc. if the gesture predicate is 1, and so on.

