Project Design Phase-I
Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID00221
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.

- The use of doctor-computer interaction devices in the operation room is avoided by a vision-based hand gesture capture and recognition system that interprets in real-time the user's gestures for navigation and manipulation of images .

Project structure:

- When uploading an image for input, the user interacts with the user interface.
- The input image is subjected to a variety of operations depending on the distinct gesture inputs.
- The image can be flipped, blurred, and scaled.
- After the model analyses the gesture prediction, the image operation is displayed on the user interface.
- Better performance of the required function and precision in hand gesture prediction.
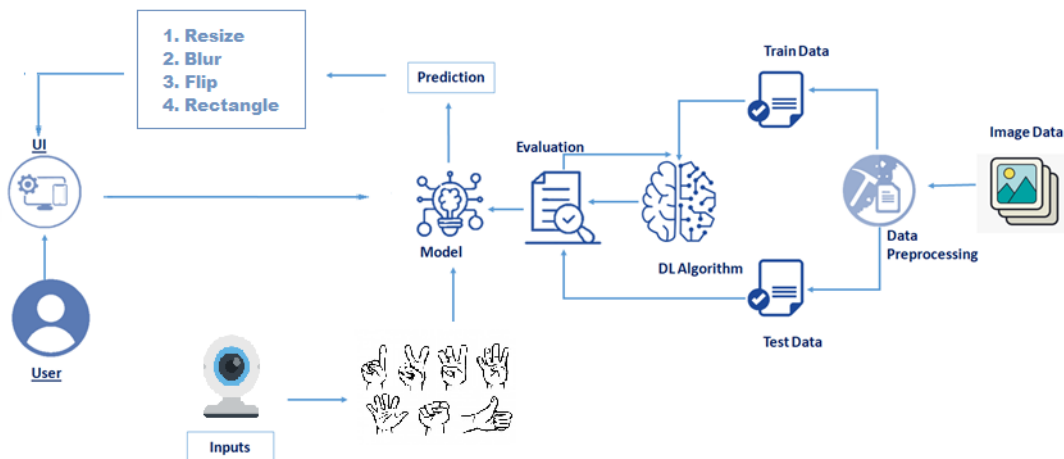
Solution Architecture Diagram:

Figure 1: Architecture and data flow of the gesture based tool