Project Design
Phase-I
Solution Architecture

Date	14 October 2022
Team ID	PNT2022TMID33317
Project Name	Real-Time Communication System Powered byAI for Specially Abled
Maximum Marks	4 Marks

Solution Architecture:

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

- The human hand has remained a popular choice to convey information in situations where other forms like speech cannot be used.

- The technology is developing day by day but no significant developments are undertaken for the betterment of these people.

- The human hand has remained a popular choice to convey information in situations where other forms like speech cannot be used.

- This app enables deaf and dumb people to convey their information using signs which get converted to human-understandable language and speech is given as output.

Solution Architecture Diagram:

Hand and Head
Segmentation

Hand and Head
Segmentation

Hands and Head
Tracking

Hands and Head
Tracking

Feature Extraction

Feature Extraction

Data Base

Neural Network

Voice Corresponding To Sign