

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID09339
Project Name	Project – Real-time communication system powered by AI for specially abled
Maximum Marks	2 Marks

Proposed Solution Template:

Sl.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul style="list-style-type: none"> Communications between deaf-mute and a normal person has always been a challenging task. It is very difficult for mute people to convey their message to normal people. Since normal people are not trained on hand sign language. In emergency times conveying their message is very difficult.
2.	Idea / Solution description	<ul style="list-style-type: none"> Voice Conversion System with Hand Gesture Recognition and translation will be very useful to have a proper conversation between a normal person and an impaired person in any language.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> This project aims to develop a system that converts the sign language into a human hearing voice in the desired language to convey a message to normal people, as well as convert speech into understandable sign language for the deaf and dumb.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> Experience of a user is likely to obtain a positive and significant impact with the customer satisfaction. It helps many specially abled person to communicate easily with the normal people.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> It helps in correctly predicting the sign language from the human hearing voice.

6.	Scalability of the Solution	<ul style="list-style-type: none">• Using the dataset and convolutional neural network, this proposed project is the scalable framework for converting sign language into human language and vice versa.
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