Project Design Phase-I
Proposed Solution Template

Date	23 September 2022
Team ID	PNT2022TMID18723
Project Name	Real-Time Communication System Powered by AI for Specially Abled
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	**Statement -** Communication between deaf-mute and a normal person has always been a challenging task. **Description -** The Deaf/Dump people needs a way to communicate easily and quickly with the normal people, so that the Deaf/Dump people feel confident enough to express there thought, ideas, and can make conversation with the normal people.
2.	Idea / Solution description	**The Solution description of our project** – 1) Designing and implementing a system using artificial intelligence, Deep Learning algorithms and image processing concepts to take input as hand gestures (or) sign language and It generates recognizable outputs in the form of text and voice. 2) We can convert the sign languages into voice or text. So that the specially abled people will convey the message to normal people.

3.	Novelty / Uniqueness	**Uniqueness of Our Project -** 1) The system uses neural networks and Computer vision to recognizes the video or image of sign language then smart deep learning algorithms translate it into speech or text.
4.	Social Impact / Customer Satisfaction	**Social Impact -** 1) As the specially abled people feel very difficult to convey their message to normal people in emergency times as well as in normal times. 2) The main purpose of this application is to make deaf-mute people feel independent and more confident.
5.	Business Model (Revenue Model)	**Business Model -** The system can generate revenue through direct customers and collaborate with health care sector and generate revenue from their customers.
6.	Scalability of the Solution	**Scalability -** 1) They can participate in daily activities rather than being inactive and can get good job opportunities. 2) Adaptive learning platforms also provide personalised learning experiences tailored to the specific needs of students with disabilities. 3) This application aims to help deaf and dumb by providing them with an attractive communication.