## **Project Design Phase-I**

## **Proposed Solution Template**

Date	24 September 2022
Team ID	PNT2022TMID44066
Project Name	Real Time Communication System Powered by AI for Specially Abled
Maximum Marks	2 Marks

## **Proposed Solution Template:**

S.No.	Parameter	Description
1.	Problem	A Real time communication system needs some
	Statement	modifications before transferring different speech signals
	(Problem to be	simultaneously on the same band/channel. The signals are
	solved)	sampled from analog audio signals with an introduction of
		quantization noise and sampling degradation.
2.	Idea / Solution	More in recent times urbanized embedded applications are
	description	altering our standard of living in an elegant way. Sign
		language is a communicative and normal way for
		communication among common and the human being with
		the specially abled. The objective of the sign language
		translation system is to decode the usual sign language into
		speech and to create trouble-free contact with the dumb
		persons. The physical gesticulation statement comprises of
		hand gestures that suggest particular meaning, the non -
		physical is head movement, facial appearance, body
		orientation and position. The most important uniqueness of
		a person hand gesticulation can be reviewed by their
		energetic features. Hand gesture conversion to voice
		involves images of live hand gestures taken lively with
		which training datasets are developed and with this dataset
		the gestures are recognized.
		In the opposite process, the normal person voice has to be
		converted into gesture for the understanding of disabled
		persons. Speech recognition involves voice recognition and
		converting it into text and gesture images.
		It can improve a good relation and communication skill
_		between the specially abled and the normal people.
3.	Novelty /	Optimizing and improving the virtual communication for
	Uniqueness	the specially abled people.

4.	Social Impact /	Improving innovations and communication skill.
	Customer Satisfaction	Comfortable and Useful to communicate during at emergency situations.
5.	Business Model (Revenue Model)	Lack access to employment opportunities and even if they are able to get employment, they face problems such as reasonable accommodation at work, accessible public transportation to get them to work and back and discrimination and ignorance about their potential at work.
6.	Scalability of the Solution	The persons with disabilities are more likely to experience adverse socio-economic outcomes such as less education poorer health outcomes, lower levels of employment, and higher poverty rates. Poverty may increase the risk of disability through malnutrition, inadequate access to education and health care.  Disability may also increase the risk of poverty, through lack of employment and education opportunities, lower wages, and increased cost of living with the disability.