

Project Design Phase-I
Proposed Solution Template

Date	30 September 2022
Team ID	PNT2022TMID34132
Project Name	Project – REAL TIME COMMUNICATION POWERED BY AI FOR SPECIALLY ABLED
Maximum Marks	2 Marks

Proposed Solution Template:

The project team shall fill in the following information in the proposed solution template.

S.No	Parameter	Description
1.	Problem Statement (Problem to be solved)	How might we design and implement the system to overcome the communication barrier between normal people and speech-hearing impaired people?
2.	Idea / Solution description	The project aims to develop a system that converts 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. We are making use of a convolution neural network to create a model that is trained on different hand gestures.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> • Enables Two-Way Communication System • Accurate Hand Gesture Recognition • Retrieval of High-Quality Audio • Multilingual system • Auto Updating • Disabled People get Benefited on a Major Scale • Learning Sign Language is not Necessary
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> ✓ Specially Abled People cannot be felt Underrated ✓ Easily Accessible by Young and Adults ✓ Breaks Inferior Complexity among the Society ✓ Portable System ✓ Cost Efficient ✓ Live Communication ✓ Communication Without Delay
5.	Business Model (Revenue Model)	Based on the Popularity of the Application, the number of users gets increased so that Marketing profit can also be Increased.

6.	Scalability of the Solution	Based on several users who need the service mostly get benefited from this application. This project can be expandable to reach more people which broadens the effectiveness for the users.
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