

**Project Design Phase-I**  
**Proposed Solution Template**

Date	08 Nov 2022
Team ID	PNT2022TMID46644
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 Statement (Problem to be solved)	Communication 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 in emergency times as well as in normal times.
2.	Idea / Solution description	<ol style="list-style-type: none"><li>1. 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.</li><li>2. To design and implement a system using artificial intelligence, image processing and data mining concepts to take input as hand gestures.</li></ol>
3.	Novelty / Uniqueness	<p>We are using a convolution neural network to create a model that is trained on different hand gestures and an app is built for the use of this mode.</p> <ol style="list-style-type: none"><li>1. Artificial Intelligence developed the app called GnoSys that uses neural networks and computer vision.</li><li>2. It recognizes the video of sign language speaker and then smart algorithms translate it into speech.</li></ol>
4.	Social Impact / Customer Satisfaction	<ol style="list-style-type: none"><li>1. The main purpose of this application is to make deaf-mute people feel independent and more confident.</li><li>2. About two thirds of people with a mobility and dexterity disability are most likely to experience a great deal of difficulty with everyday activities.</li></ol>

5.	Business Model (Revenue Model)	<p>1. AI can generate revenue through direct customers and collaborate with health care sector and generate revenue from their customers.</p> <p>2. B2B setting uses to employ deaf and mute employees can use to convey messages according to the company.</p>
6.	Scalability of the Solution	<p>1. Enhance people with disabilities to step into a world where their are facing difficulties in communication.</p> <p>2. AI technology helps disabled people to open up new opportunities for accessibility inclusion in society and independent living.</p> <p>3. It might open the door to more cutting edge and creative approaches to the most difficult problems facing disadvantaged People.</p>