

**Project Design Phase-I**

**Proposed Solution  
Template**

Date	16 November 2022
Team ID	PNT2022TMID04184
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)	To create a technology to assist dumb and deaf persons in real-time communication.
2.	Idea / Solution description	<ol style="list-style-type: none"><li>1. The model employs a procedure known as background-subtraction, which is regarded as a significant pre-processing step.</li><li>2. To extract the foreground object from the background, there are two approaches described in the literature.</li><li>3. For the purpose of locating the hand region in the input image taken by the camera, these techniques will be used in the construction of the proposed Sign Language Converter.</li></ol>
3.	Novelty / Uniqueness	<ol style="list-style-type: none"><li>1. We'll be utilizing the most recent and popular wearable technology, which enables the disabled person to carry the device (a mobile application) easily anywhere and everywhere, enabling communication for both people with special needs and average people.</li><li>2. The most recent convolution neural network design will be used to increase the trained model's effectiveness.</li></ol>
4.	Social Impact / Customer Satisfaction	Assists in bridging communication gaps with those who are speech- and hearing-impaired.

5.	Business Model (Revenue Model)	The finished product will be promoted using a retailer model, in which it will be given a starting base price and upgraded as soon as additional features are added.
6.	Scalability of the Solution	Bootstrapping the business initially with the founder's cash, but eventually by reinvested customer service profit.