

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID30205
Project Name	Project - Real-Time Communication System Powered by AI for Specially Abled
Maximum Marks	2 Marks

Proposed Solution :

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	For a visually impaired to detect their surrounding and for a hearing impaired to understand what someone is saying or to hear is impossible without help. There is a need to understand their social environment for the need of safety and independence from a care taker.
2.	Idea / Solution description	Instead of depending on a guide dog or a caretaker, we introduce an application to perform the role of an eye and ear. It can detect every movement in surrounding along with sound at real time.
3.	Novelty / Uniqueness	Real-time fast image recognition and speech recognition along with text-to-speech and speech-to-text transmission. Object detection, copy or translation of text, find visually similar image and personal assistant are some other features available in our application.
4.	Social Impact / Customer Satisfaction	Independent travel is an essential part of daily life for many people who are visually impaired or hearing impaired, but they face a greater risk of bumping into obstacles when they walk on their own. This hardship can be solved by our application due to its real-time processing features.
5.	Business Model (Revenue Model)	With the need of huge data to analyse at real-time, we use cloud storage for preserving the data.
6.	Scalability of the Solution	Every visually impaired and hearing impaired person can use this application to solve their daily life crisis, without depending on another.