Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID18207
Project Name	Project – Real time communication powered by AI for specially abled persons.
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Specially abled people cannot understand normal people's language(voice) and normal people cannot understand specially abled people's sign language. To enable real time communication between specially abled people and normal people.
2.	Idea / Solution description	By using artificial intelligence a model can be developed to enable real time communication between specially abled people and normal people. Using CNN to create a model that is trained on different hand gestures and various libraries like py audio are used to convert symbols into audio(voice).
3.	Novelty / Uniqueness	Model is trained using tensor flow and deployed in app using flask. Basic sign representation explanations in app for easy understanding for normal people.
4.	Social Impact / Customer Satisfaction	Communication gap between specially abled people and normal people can be solved as real time communication is enabled between them.
5.	Business Model (Revenue Model)	Many people are specially abled all over the world so they can use this app thus it creates a steady revenue. The model is quite costly.
6.	Scalability of the Solution	The CNN is trained for various and different sign language datasets and it is used by different people from different countries and we can make this model more scalable.