Project Title: Real-Time Communication System Powered by AI for Specially Abled   **Project Design Phase-I – Solution Fit Template**   **Team ID: PNT2022TMID24857**

1. CUSTOMER SEGMENT(S)   CS

Who is your customer?
Deaf-mute people are our customers

6. CUSTOMER CONSTRAINTS   CC

What constraints prevent your customers from acting or limit their choices
of solutions?
Network connection, customization, battery limit of phones, slow response

5. AVAILABLE SOLUTIONS   AS

Which solutions are available to the customers when they face the problem

or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? pen and paper is an alternative to digital communication.

2. JOBS-TO-BE-DONE / PROBLEMS

Which jobs-to-be-done (or problems) do you address for your customers? Real time translation and emotion detection. Customization. User friendly UI.

9. PROBLEM ROOT CAUSE   RC

What is the real reason that this problem exists? What is the back story behind the need to do this job?

The root cause of the problem is even with a good level of advancement in technology we find deaf-mute people struggling to even have a normal conversation. This is happening so because not all understands sign language.

7. BEHAVIOUR   BE

What does your customer do to address the problem and get the job done?

In order to get the job done they either use pen and paper or communicate using a person who understands sign language and translate it accordingly to the other person with whom the deaf-mute person is trying to communicate.

3. TRIGGERS   TR

What triggers customers to act?
Other deaf-mute people finding it very easy to install and use the application for communication triggers our customer

10. YOUR SOLUTION   SL

If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits reality.
The solution that we offer is a web application that is capable of detecting emotions and translating sign language to speech and vice versa simultaneously. It also offers language customization.

8. CHANNELS of BEHAVIOUR   CH

8.1 ONLINE
What kind of actions do customers take online? Customers try communicating through messages in social media application. They try to reach out to people who are similar to them. Customers try online sign language detection system for communicating.
8.2 OFFLINE
What kind of actions do customers take offline? Customers use sign language or pen and paper to communicate.

4. EMOTIONS: BEFORE / AFTER

EM

How do customers feel when they face a problem or a job and afterwards?

Before: lost, unheard, inexpressible, misunderstood

After: expressible, understandable, noted, heeded