Project Design Phase – I
Problem –Solution Fit

Date	16.10.2022
Team ID	PNT2022TMID14851
Project Name	Real-Time Communication System Powered by AI for Specially Abled
Maximum Marks	2 Marks

1.CUSTOMER SEGMENT	6.CUSTOMER CONDTRAINTS	5.AVAILABLE SOLUTIONS
Who is your customer? Deaf people who eager to learn. Dumb (Mute) people who wants to expression their thought. Parents of deafmute kids. Children of disabled parents.	**What constrains prevent your customers from taking action or limit their choices of solution?** Network issues may delay to access the feature Improper sign language will lead the people to misunderstood.	**Which solution are available to the customer when they face the problem or need to get the job done? What pro & cons do these solution have?** Sign to alphabet conversation Word conversation in multilanguage. Train common word and phrases Pros: Convert the sign into voice with emotion Cons: During sign to text conversation there may be an error. There may be chance of misunderstanding word in voice to text conversation.

2. JOBS-TO-BE DONE/PROBLEMS	9. PROBLEM ROOT CAUSE	7. BEHAVIOUR
	What is the real reason that this problem exists?	**What does your customer do to address**

hich jobs-to-bedone o you address or your customers?

No need of the translator for communication between deafmute people and normal people.

Reduce the time to express their thoughts.

Reduce cost used for translator.

What is back story behind the need to do this job?

Deaf-mute is a birth disorder.

Sometimes it occurs due to aging factor and accidents.

Normal people are not so patient to understand deaf-mute people thoughts.

the problem and get the job done?

Taking the hand gesture image with good quality and uploading it for conversion.

Make use of text to voice conversion option while communicating with others.

3. TRIGGERS

What triggers customers to act?

Customer doesn't need human translator to communicate with normal people.

Instant result for the conversion of sign language to human understandable language.

Interactive sessions.

10. YOUR SOLUTION

f you are working on an xisting business write down your current olution first fill in the anvas and check how much it fits reality

Accurate conversio will be available Interactive and user friendly solution to make it accessible Elimination of human error and fast functionality Provide common signs, including tho for letters, numbers and everyday words and phrases.

8. CHANNEL OF BEHAVIOR

8.1 ONLINE

What kind of actions do

ustomers take online?

- ⬚ Accessing required conversions using application.

- ⬚ Uploading the imag e of hand sign.

- ⬚ Quick access of Al based algorithm.

8.2 OFFLINE

4. EMOTIONS: BEFORE/AFTER

How do customers fe they face a problem before and afterwards
 	
BEFORE:
  Feeling
  DEPRESSED
unable express though **ORE**
         fee   when
Feeling
     FRUST
       REGR
 	
   people speec   and
Parents feelingwhile
          le to
          gnize
   disable kids.
AFTER:
               EARTED
      CONFIDE 't teach their
 	
   as
           ers can
           el
  thoughts.   **NDENT** and
 	
         SSURIZED
 	
         n share
         eir
		What kind of actions ustomers take offline?
		
		Taking the hand sign picture properly without any blur.
		
		Parents make kids to practice in this application.
		
		Children of elderly disabled people helps to teach their parents.

Parents,relatives and friends of disable people are **HAPPY**		