

**Project Design Phase – I**  
**Problem –Solution Fit**

Date	16.10.2022
Team ID	091e02b
Project Name	Real-Time Communication System Powered by AI for Specially Abled
Maximum Marks	2 Marks

	<b>1.CUSTOMER SEGMENT</b>	<b>6.CUSTOMER CONDTRANTS</b>	<b>5.AVAILABLE SOLUTIONS</b>
	<p><b>Who is your customer?</b></p> <p>Deaf people who eager to learn. Dumb (Mute) people who wants to expression their thought. Parents of deafmute kids. Children of disabled parents.</p>	<p><b>What constrains prevent your customers from taking action or limit their choices of solution?</b></p> <p>Network issues may delay to access the feature  Improper sign language will lead the people to misunderstood.</p>	<p><b>Which solution are available to the customer when they face the problem or need to get the job done? What pro &amp; cons do these solution have?</b></p> <p>Sign to alphabet conversation Word conversation in multilanguage. Train common word and phrases</p> <p>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.</p>
	<b>2. JOBS-TO-BE DONE/PROBLEMS</b>	<b>9. PROBLEMROOT CAUSE</b> What is the real reason that this problem exists?	<b>7.BEHAVIOUR</b> What does your customer do to address

<p><b>Which jobs-to-be-done do you address or your customers?</b></p> <p>No need of the translator for communication between deafmute people and normal people.</p> <p>Reduce the time to express their thoughts.</p> <p>Reduce cost used for translator.</p>	<p><b>What is back story behind the need to do this job?</b></p> <p>Deaf-mute is a birth disorder.</p> <p>Sometimes it occurs due to aging factor and accidents.</p> <p>Normal people are not so patient to understand deaf-mute people thoughts.</p>	<p><b>the problem and get the job done?</b></p> <p>Taking the hand gesture image with good quality and uploading it for conversion.</p> <p>Make use of text to voice conversion option while communicating with others.</p>
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<p><b>3. TRIGGERS</b></p> <p><b>What triggers customers to act?</b></p> <p>Customer doesn't need human translator to communicate with normal people.</p> <p>Instant result for the conversion of sign language to human understandable language.</p> <p>Interactive sessions.</p>	<p><b>10. YOUR SOLUTION</b></p> <p><b>If you are working on an existing business write down your current solution first fill in the blanks and check how much it fits reality</b></p> <p>Accurate conversion will be available Interactive and user friendly solution to make it accessible Elimination of human error and fast functionality Provide common signs, including those for letters, numbers and everyday words and phrases.</p>	<p><b>8. CHANNEL OF BEHAVIOR</b></p> <p><b>8.1 ONLINE</b></p> <p><b>What kind of actions do customers take online?</b></p> <ul style="list-style-type: none"> <li>☑ Accessing required conversions using application.</li> <li>☑ Uploading the image of hand sign.</li> <li>☑ Quick access of AI based algorithm.</li> </ul>
<p><b>4. EMOTIONS: BEFORE/AFTER</b></p>		<p><b>8.2 OFFLINE</b></p>

How do customers feel they face a problem before and afterwards

BEFORE:

Feeling  
**DEPRESSED**  
unable express thoughts  
feel when  
Feeling  
**FRUST**  
**REGR**  
people speech and  
Parents feeling while  
le to  
gnize  
disable kids.

AFTER:

**EARTED**  
**CONFIDE** 't teach their  
as ers can  
el  
thoughts. **NDENT** and  
**SSURIZED**  
n share  
eir

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

What kind of actions customers 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.