

Project Design Phase – I
Problem –Solution Fit

Date	30 September 2022
Team ID	PNT2022TMID29664
Project Name	Real-Time Communication System Powered by AI for Specially Abled
Maximum Marks	2 Marks

1.CUSTOMER SEGMENT	6.CUSTOMER CONDRAINTS	5.AVAILABLE SOLUTIONS
<p>Who is your customer?</p> <ul style="list-style-type: none"> ✓ Deaf people who eager to learn. ✓ Dumb (Mute) people who wants to expression their thought. ✓ Parents of deaf-mute kids. ✓ Children of disabled parents. 	<p>What constrains prevent your customers from taking action or limit their choices of solution?</p> <ul style="list-style-type: none"> ✓ Network issues may delay to access the feature ✓ Improper sign language will lead the people to misunderstood. 	<p>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?</p> <ul style="list-style-type: none"> ✓ Sign to alphabet conversation ✓ Word conversation in multilanguage. ✓ Train common word and phrases <p>Pros:</p> <ul style="list-style-type: none"> ✓ Convert the sign into voice with emotion <p>Cons:</p> <ul style="list-style-type: none"> ✓ 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
<p>Which jobs-to-be-done do you address for your customers?</p> <ul style="list-style-type: none"> ✓ No need of the translator for communication between deaf-mute people and normal people. ✓ Reduce the time to express their thoughts. ✓ Reduce cost used for translator. 	<p>What is the real reason that this problem exists? What is back story behind the need to do this job?</p> <ul style="list-style-type: none"> ✓ 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. 	<p>What does your customer do to address the problem and get the job done?</p> <ul style="list-style-type: none"> ✓ 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.

<p>3. TRIGGERS</p> <p>What triggers customers to act?</p> <ul style="list-style-type: none"> ✓ 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. 	<p>10. YOUR SOLUTION</p> <p>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</p> <ul style="list-style-type: none"> ✓ 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>8. CHANNEL OF BEHAVIOR</p> <p>8.1 ONLINE</p> <p>What kind of actions do customers take online?</p> <ul style="list-style-type: none"> ✓ Accessing required conversions using application. ✓ Uploading the image of hand sign. ✓ Quick access of AI based algorithm.
<p>4. EMOTIONS: BEFORE/AFTER</p> <p>How do customers feel when they face a problem or a job before and afterwards?</p> <p>BEFORE:</p> <ul style="list-style-type: none"> ✓ Feeling MORE DEPRESSED when unable express thoughts and feelings. ✓ Feeling FRUSTRATED and REGRETFUL while unable to recognize people speech ✓ Parents feeling DOWNHEARTED when can't teach their disable kids. <p>AFTER:</p> <ul style="list-style-type: none"> ✓ Customers can feel INDEPENDENT and CONFIDENT. ✓ UNPRESSURIZED as ✓ they can share their thoughts. ✓ Parents, relatives and friends of disable people are HAPPY 		<p>8.2 OFFLINE</p> <p>What kind of actions do customers take offline?</p> <ul style="list-style-type: none"> ✓ 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.