

Project Title: Real-Time Communication System Powered by AI for Specially Abled

Project Design Phase-I - Solution Fit Template

Team ID: PNT2022TMID26243

Define CS, fit into J&P	<div>1. CUSTOMER SEGMENT(S) Who is your customer? Deaf and dumb people who want to communicate normally with others</div> <div>CS</div>	<div>6. CUSTOMER CONSTRAINTS What constraints prevent your customers from taking action or limit their choices of solutions? Budget of devices are high , network connection should be stable</div> <div>CC</div>	<div>5. AVAILABLE SOLUTIONS Which solutions are available to the customers when they face the problem There are glove-based systems for wearable communication now, including Deaf mute communication interpreters. Handicom touchscreen and keypad</div> <div>AS</div>	Explore AS, differ from CS
	<div>2. JOBS-TO-BE-DONE / PROBLEMS Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides. *) two way communication between deaf and dumb people with normal people. *) Sign language to text / audio msg *) text/audio msg to sign language</div> <div>J&P</div>	<div>9. PROBLEM ROOT CAUSE What is the real reason that this problem exists? What is the back story behind the need to do this job? Specially abled people should live their life without 3rd person support.</div> <div>RC</div>	<div>7. BEHAVIOUR What does your customer do to address the problem and get the job done? People tend to have assistant with them or human translator, otherwise use written communication</div> <div>BE</div>	
Focus on J&P, tap into BE, understand RC				Focus on J&P, tap into BE, understand RC
Identify the problem	<div>3. TRIGGERS What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news. ease of communication by normal people to specially abled people and vice versa</div> <div>TR</div>	<div>10. YOUR SOLUTION Implement the CNN model to convert hand gestures into text or audio in english, so that deaf and dumb people can convey their information in a normal way .</div> <div>SL</div>	<div>8. CHANNELS of BEHAVIOUR 8.1 ONLINE Human translator can be replaced with AI system 8.2 OFFLINE Tool to support Written Communication</div> <div>CH</div>	Identify the problem

	<div><div>4. EMOTIONS: BEFORE / AFTER</div><div>EM</div><div>How do customers feel when they face a problem or a job and afterwards? i.e. lost, insecure > confident, in control – use it in your communication strategy & design.</div><div>Without the sign language translator , difficult to communicate to public during emergency situation – feel insecure .</div><div>If the above problem can be solved , specially abled people feel confident of doing any task.</div></div>		
--	--	--	--