

Project Design Phase-I – Problem-Solution Fit

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

Team ID: PNT2022TMID06610

Problem-Solution Fit:

Define CS, fit into CL	1. CUSTOMER SEGMENT(S) CS Our customer is deaf-mute people who can only communicate with others through sign language	6. CUSTOMER LIMITATIONS CL <small>EG. BUDGET, DEVICES</small> Their natural disability (deafness and muteness)	5. AVAILABLE SOLUTIONS AS <small>PROS & CONS</small> Available solutions to communicate include: Sign language, translator who can translate sign language	Explore AS, differentiate
	2. PROBLEMS / PAINS + ITS FREQUENCY PR The problem of deaf-mute people not being able to express themselves to others through sign language as commoner doesn't know sign language	9. PROBLEM ROOT / CAUSE RC The problem's root cause is not in our customer's control as they can't control deafness from birth	7. BEHAVIOR + ITS INTENSITY BE Their behaviour to address the problem and get the job done is to learn sign language and get used to them.	
Identify strong TR & EM	3. TRIGGERS TO ACT TR The main trigger for the customer is when they feel they couldn't communicate easily with others	10. YOUR SOLUTION SL We propose to build a system that uses deep-learning to convert sign language images to normal messages and voice output that normal people can understand	8. CHANNELS of BEHAVIOR CH ONLINE They look for others like them online and get to know them to feel that they are not alone.	Extract online & offline CH of BE
	4. EMOTIONS EM <small>BEFORE / AFTER</small> Before: Left alone, sad, depressed, inferior After: Optimistic & confident		OFFLINE They learn sign language and cope with others	



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