

Project Design Phase-I - Solution Fit Template

Project Title: Real Time Communication SystemPowered by AI for Specially Abled

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Define CS , fit into CC	<div>1.CUSTOMER SEGMENT(S)<div>CS</div></div> <div>Deaf and mute people and anyone who wants to understand sign language can communicate with others.</div>	<div>6.CUSTOMER CONSTRAINS<div>CC</div></div> <div>They need to find a translator to convey their message. Available hearing aids are very expensive and require proper maintenance and timely replacement.</div>	<div>5. AVAILABLE SOLUTION<div>AS</div></div> <div>Available Solutions: Interpreters translate sign language to voice, hearing aids, text-to-speech converters. Disadvantages: Interpreter dependent, expensive devices cannot be afforded by everyone, not user-friendly.</div>	Explore AS , differentiate
	<div>2.JOBS-TO-BE-DONE/PROBLEMS<div>J&P</div></div> <div>Limitations that deaf and hard of hearing people often face when participating in social issues are prevailing problems.</div>	<div>9.PROBLEM ROOT CAUSE<div>RC</div></div> <div>The difficulty faced by the deaf and mute people is that they cannot express their feelings to ordinary people because they do not know sign language.</div>	<div>7.BEHAVIOR<div>BE</div></div> <div>Direct: They try to find alternative ways of writing their feelings or typing to communicate to common people. Indirect: They usually try to avoid common people conveying their message and try to find an interpreter in case of emergency and avoid hanging out which will set them back all the way.</div>	
Focus on J&p,tap into BE,understand RC	<div>3.TRIGGERS<div>TR</div></div> <div>Urgent situations, raising awareness of opportunities available, friends starting to use the app, feeling included or waiting to be understood.</div>	Identify Strong TR &EM	<div>10.YOUR SOLUTION<div>SL</div></div> <div>We are making use of a convolution neural network to create a model that is trained on different hand gestures. An app is built which uses this model. This app enables deaf and dumb people to convey their information using signs which get converted to human-understandable language and speech is given as output.</div>	Focus on J&p,tap into BE,understand RC
	<div>4.EMOTIONS:BEFORE/AFTER<div>EM</div></div> <div>Before: Helpless, depressed, anxious, hopeless, depressed,loneliness. After: independent, self confident,able to express without the peer helps,chat with others very easily.</div>		<div>8.CHANNELS of BEHAVIOR<div>CH</div></div> <div>Online: Creating more awareness among people about available solution. Provision of special equipment to enhance educational services to improve them. Offline: By encouraging everyone to participate in all social and educational activities with equality and to have all the same opportunities as ordinary people.</div>	
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