

Project Title:
Solution Fit Template
PNT2022TMID30815

Project Design Phase-I -
Team ID:

Real-Time Communication System Powered by AI for Specially Abled

Define CS, fit into CC	<div>1. CUSTOMER SEGMENT(S)<div>Who is your customer? i.e. working parents of 0-5 y.o. kids</div></div> <div>Deaf and mute people who face difficulty to communicate with normal people through sign language.</div>	<div>6. CUSTOMER CONSTRAINTS<div>What constraints prevent your customers from taking action or limit their choices of solutions? i.e. spending power, budget, no cash, network connection, available devices.</div></div> <div>Deaf and mute people just share the information through sign language and these gestures are made using hands, fingers, arms, head, and also facial expressions.</div>	<div>5. AVAILABILITY Which solution best solves the problem?</div> <div>The solution faces challenges similar to recording real performance. A standard involves including at least one motion tracking component.</div>

2. JOBS-TO-BE-DONE / PROBLEMS

J&P

Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides.

Communication between specially-abled and ordinary people has always been a challenging task. Solving the problem of recognizing words or sentences using sign language.

9. PROBLEM ROOT CAUSE

RC

What is the real reason that this problem exists?
What is the back story behind the need to do this job?
i.e. customers have to do it because of the change in regulations.

We take a selected problem and give a solution. That solution is extremely helpful for people who face difficulty with hearing or speaking. Hearing disabilities and Speaking problems are becoming common among kids.

Identify strong TR & EM

3. TRIGGERS

TR

What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news.

The relatives of members of deaf mute people face difficulties to express their opinion and communicating with them. Being left out of activities.

10. YOUR SOLUTION

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.
If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour.

Sign language recognition task of recognizing sign language glosses from video stream. glosses are converted into text. This can bridge the communication between deaf and mute people, facilitating the social inclusion of hearing-impaired people.

CHANNELS of BEHAVIOUR

CH

- **ONLINE**
What kind of actions do customers take online? Extract online channels from #7
- **OFFLINE**
What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.

Facing difficulties communicating with normal people. Not being understood and being left out from important discussions.

Identify strong TR & EM

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