

Project Design Phase-I

Project Title: Real time communication systems powered by AI for specially abled . **Problem Solution Fit Template**

Team ID: PNT2022TMID05416

Define CS, fit into CC

1. CUSTOMER SEGMENT(S)

CS

Who is your customer?

The normal people who are trying to communicate with Specially abled persons such as deaf and dumb people are the customer

6. CUSTOMER CONSTRAINTS

CC

What constraints prevent your customers from taking action or limit their choices of solutions?

The sign language is not understandable to all. The difficulty in understanding the sign language by normal people

5. AVAILABLE SOLUTIONS

AS

Which solutions are available to the customers when they face the problem

or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? i.e. pen and paper is an alternative to digital notetaking

Provide personalized learning experiences. It makes use of text editors and social media to Easy to learn and visualize access with all keywords.

Using text type writers and AI Based devices ie.Voice recognition

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

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

Create a communication link between deaf -dumb and normal people Understanding inputs from the user may take a lot of efforts..

AI instantly transcribes the conversation of a group of people. Its algorithm adds punctuation, the name of the person who is talking, and the necessary vocabulary from the user's dictionary. Voice Access was specially created for people with reduced dexterity.

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.

The communication barrier is the root cause .

During emergency the specially abled people cannot contact or express their feelings to others (normal people) .

The feeling cannot be shared with other they feel stressed.

7. BEHAVIOUR

BE

What does your customer do to address the problem and get the job done?

i.e. directly related: find the right solar panel installer, calculate usage and benefits; indirectly associated: customers spend free time on volunteering work (i.e. Greenpeace)

AI has a huge impact on people with disabilities everyday lives.

Today, facial recognition software is being used for blind children to read books aloud and as an accessible way for deaf people to communicate with others via video chat.

Focus on J&P, tap into BE, understand RC

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.

An ability of the customers to communicate efficiently at serious and necessary situations.

AI is to enable you to achieve personal fulfillment and stay adaptable in this fast-changing tech industry.

4. EMOTIONS: BEFORE / AFTER

EM

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.

Visually impaired users can set it up to work with VoiceOver.
Allows people with disabilities to fully control their environments

10. YOUR SOLUTION

SL

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.

This device helps in emergency situations to contact .
The customer can share their feelings and also helps in expressing emotions and their motives.

8. CHANNELS of BEHAVIOUR

CH

8.1 ONLINE

What kind of actions do customers take online? Extract online channels from #7

AI technologies can play an important role in breaking down the communication through online translation.

8.2 OFFLINE

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

They buy devices that helps in translating signed language to text and vice versa .