Problem-Solution fit

Project Name: Real-Time Communication System Powered by AI for Specially Abled Team ID: PNT2022TMID33857

1. CUSTOMER SEGMENT(S)

Deaf & Dumb people (Specially Abled)

Who is your customer?

CS

6. CUSTOMER CONSTRAINTS

Sign language may vary according to every specially abled

of solutions?

Network related factors

Cross Platform availability

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

CC

RC

SL

5. AVAILABLE SOLUTIONS

AS

BE

СН

Explore AS, differentiate

Focus on J&P, tap

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?

Learning sign language

Interpretation using Hardware components like smart gloves and finger caps Assistive Technologies & Applications

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2. JOBS-TO-BE-DONE / PROBLEMS

J&P

TR

EM

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?

Everyone does not sign language Inability to communicate normally and effectively Improper interpretation

There should be a conversation engine to communicate

There is a need to develop a system to convert sign language to speech and vice-versa

Which jobs-to-be-done (or problems) do you address for your customers?

7. BEHAVIOUR

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

Text Usage to convey information Use of understandable signs Lip reading

3. TRIGGERS

What triggers customers to act?

Seeing people isolated Inability to convey their thoughts during emergencies Frustration upon missing opportunities Wish to lead a normal life

4. EMOTIONS: BEFORE / AFTER

How do customers feel when they face a problem or a job and afterwards? Before- Socially secluded, Dependent, Hurt After - Equality, Confident, Relieved

10. YOUR SOLUTION

A conversation engine for deaf and dumb (specially abled) people to enable communicate between them and normal people, thereby reducing the barrier of communication by developing an assistive application for specially-abled people

8. CHANNELS of BEHAVIOUR

8.1 ONLINE

What kind of actions do customers take online?

Video calls for distant communication involving either sign language or lip reading

8.2 OFFLINE

What kind of actions do customers take offline? Dependency on a person for communication assistance

E ŏ 7 **Identify strong** **Extract online &** offline CH of BE