 Purpose / Vision: Real-Time Communication System Powered by AI for Specially Abled

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

**AS**

**5. AVAILABLE SOLUTIONS**

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

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

of solutions? e. spending power, budget, no cash, network connection, available devices.

**CC**

**6. CUSTOMER COCONSTRAINTS**

**CS**

**1. CUSTOMER SEGMENT(S)**

Who is your customer?

i.e. working parents of 0-5 y.o. kids

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)

**BE**

**7. BEHAVIOUR**

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

**RC**

**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?

i.e. customers have to do it because of the change in regulations.

**J&P**

**2. JOBS-TO-BE-DONE / PROBLEMS**

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

**Explore AS, differentiate**

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

**Deﬁne CS, ﬁt into CC**

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

The project aims to develop a system that converts the sign language into a human hearing voice in the desired language to convey a message to normal people, as well as convert speech into understandable sign language for the deaf and dumb.

Hearing loss can make conversation difficult, some people experience feelings of isolation. Hearing loss is also associated with cognitive impairment and decline. Network connections while using the application can also restraint the people.

This application helps the deaf and dumb person to communicate with the rest of the world using sign language communication plays an important role for human beings

Being deaf and dumb pushes the subject to oblivion, highly introverted. In a world of inequality, this society needs empowerment. In a tech era, no one should be limited due to his or her inability. The application of technology should create a platform or a world of equality despite the natural state of humans.

Root cause maybe that they are deaf-mute from birth or due to any accidents or some traumatic experiences or family history of anxiety disorder, self-esteem problems etc.

Being deaf-mute makes them less interactive with normal people who don’t understand sign languages and they starts feeling lonely and they tend to become an introvert.

BEFORE: The deaf-mute would feel lonely because of not being able to communicate with people normally.

AFTER: This application makes it easy for them to easily communicate with others in their preferred languages. This helps them to come out of their loneliness and live a happy and healthy life.

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| **Identify strong TR & EM** | **TR**  .**3. TRIGGERS**  Communication barrier triggers people to learn sign language. | **SL**  **10. YOUR SOLUTION**  The project aims to develop a system that converts the sign language into a human hearing voice in the desired language to convey a message to normal people, as well as convert speech into understandable sign language for the deaf and dumb. | 1. **CHANNELS of BEHAVIOUR CH**     1. **ONLINE**   Deaf-mute people can chat with others online or they can connect through video conferencing.   * 1. **OFFLINE**   What kind of actions do customers take ofﬂine? Extract ofﬂine channels from #7 and use them for customer development.  Deaf-mute can communicate via sign languages. | **Extract online & ofﬂine CH of BE** |
| **4. EMOTIONS: BEFORE / AFTER EM** |