Project Design Phase – I Problem –Solution Fit

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| Date | 16.10.2022 |
| Team ID | PNT2022TMID26790 |
| Project Name | Real-Time Communication System Powered by AI for Specially Abled |

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| **1.CUSTOMER SEGMENT** |  |  | **6.CUSTOMER** | **5.AVAILABLE SOLUTIONS** |
|  | **CONDTRAINTS** |  |
| **Who is your customer?**  Deaf people who eager to learn.  Dumb (Mute) people who wants to expression their thought.  Parents of deafmute kids.  Children of disabled parents. | | **What constrains prevent your customers from taking action or limit their choices of**  **solution?**  Network issues may delay to access the feature  Improper sign language will lead the people to misunderstood. | | **Which solution are available to the customer when they face the problem or need to get the job done? What pro & cons do these**  **solution have?** |
| Sign to alphabet conversation  Word conversation in multilanguage. |
| Train common word and phrases  Pros:  Convert the sign into voice with emotion Cons:  During sign to text conversation there may be an error.  There may be chance of misunderstanding word in voice to text |
| conversation. |
|  | **2. JOBS-TO- BE**  **DONE/PROBLEMS** | | **9. PROBLEM ROOT CAUSE**  **What is the real reason that this problem exists?** | | **7. BEHAVIOUR**  **What does your customer do to address** |

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|  | **hich jobs-to-bedone o you address**  **or your customers?**  No need of the translator for communication between deafmute people and normal people.  Reduce the time to express their thoughts.  Reduce cost used for translator. | **What is back story behind the need to do this job?**  Deaf-mute is a birth disorder.  Sometimes it occurs due to aging factor and accidents.  Normal people are not so patient to understand deaf-  mute people thoughts. | **the problem and get the job done?**  Taking the hand gesture image with good quality and uploading it for conversion.  Make use of text to voice conversion option while communicating with others. |
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**10. YOUR SOLUTION**

# f you are working on an xisting business write down your current

**olution first fill in the anvas and check how much it fits reality**

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|  | **3.TRIGGERS** | |  |
| **What triggers customers to act?**  Customer doesn’t need human translator to communicate with normal people.  Instant result for the conversion of sign language to human understandable language.  Interactive sessions. | | |
|  | **4. EMOTIONS:** | | |
| **BEFORE/AFTER** |  | |

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| **8. CHANNEL OF**  **BEHAVIOR** |  |
| **8.1 ONLINE** | |
| **What kind of actions do ustomers take online?**  Accessing required conversions using application.  Uploading the imag e of hand sign.  Quick access of Al based algorithm. |  |
| **8.2 OFFLINE** | |

Accurate conversio will be available Interactive and user friendly solution to

make it accessible

Elimination of human

error and fast functionality Provide common signs, including tho for letters, numbers and everyday words and phrases.

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|  | **How do customers fe they face a problem before and afterwards**  **BEFORE:**  Feeling  **DEPRESSED**  unable express though **ORE**  fee when  Feeling  **FRUST REGR**  people speec and  Parents feeling while le to  gnize disable kids.  **AFTER:**  **EARTED**  **CONFIDE** ’t teach their  as ers can  el  thoughts. **NDENT** and  **SSURIZED**  n share eir |  | **What kind of actions ustomers take offline?**  Taking the hand sign picture properly without any blur.  Parents make kids to practice in  this  application.  Children of elderly disabled people helps to teach their parents. |
|  | Parents,relatives and friends of disable people are **HAPPY** |  |  |