Project Design Phase-1 Solution Fit Template

## Project Title: Team ID: PNT2022TMID54147

Real-Time Communication System Powered by AI for Specially Abled

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| **1. CUSTOMER SEGMENT(S) CS** | **5. CUSTOMER CONSTRAINTS CC**  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.  The main constraints would include,   1. The specially abled people wants to share their   Knowledge with their sign language.   1. Also the specially abled people like to know   the reply form normal people. | **6. 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   1. The recoganisation of sign language from hand geastures, face expression should be recoganised and it will be stored in the database. 2. The stored sign language can be converted into voice for the normal people. 3. The voice of normal people can stored and it should be converted as the sign geastures, |
| Who is your customer?  i.e. working parents of 0-5 y.o. kids |
| Deaf-Mute people had difficulties to communicate and express their ideas to the normal people through their sign language. |
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| **Fo** | **2. JOBS-TO-BE-DONE / PROBLEMS** | **J&P** | **9. PROBLEM ROOT CAUSE** | **RC** | **7. BEHAVIOUR** | **BE** | **Fo** |
| **cu s** | Which jobs-to-be-done (orproblems) do you address foryour customers? There could be more than one; explore different sides. |  | What is the real reason that this problem exists? |  | 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; |  | **cu**  **s** |

**on**

# **&** 1.The interaction between the

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 problem

indirectly associated: customers spend free time on volunteering work (i.e. Greenpeace) **on**

* By start collecting the key **J&**

# deaf-mute people and the normal people are difficult task.

**ta**

# between the

Deaf-mute people and normal

## points from Mediapipe

* Holistic and collect a data from

**p** 2. Solving this problem of people are identified and give keypoints.

# recoganising sign geastures and

voice

**int** of the people.

# a solution.

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## Build a LSTM model and train in our stored data it will helps us to recoganise the hand geastures action.

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1. **TRIGGERS TR**

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# The deaf-mute people cannot express their idea and knowledge in problem situation.

They have an hesitation to communicate to normal people.

1. **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.

Before: Hestiation, fear, lonely. After: Brave, Believe them to communicate with normal people.

1. **YOUR SOLUTION SL**
   * Our system aims to accurately recognize the sign geastures of the normal people and it can be stored in the database.
   * The normal people voice can be stored in the database. If the deaf- mute people display their hand geastures the database will recoganise and convert as the voice .
   * Then the voice of the normal people can be converted as the sign geastures .
   * In this way the communication between the normal people and the specially abled people will be more effective.
   * **CHANNELS of BEHAVIOUR CH**

o **ONLINE**

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

# Facing the difficulties to communicating with the normal people.

**8.1 OFFLINE**

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

and use them for customer development.