

Ideation Phase

Define the Problem Statements

Date : 19 September 2022
Team ID : PNT2022TMID18419
Project Name : Real Time Communication System Powered by AI for Specially Abled
Maximum Marks : 2 Marks

Problem Statement:

Communication is the medium by which we can share our thoughts or convey the messages with other person. But for specially abled people like dumb and deaf people this is challenging. Gesture shows an expressive movement of body which convey some message but not everyone is aware of sign language. Since deaf and dumb people have to depend on some sort of visual communication. In recent years, there has been so many advancement in technology. Gesture recognition is the mathematical interpretation of a human motion by a computing device. Sign language provide best communication platform for the hearing impaired and dumb person to communicate with normal person.

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|----------------------------|---|---|
| I am | <small>Describe customer with 3-4 key characteristics - who are they?</small> | Our customers are deaf and dumb people and also people who want to communicate with specially abled people at ease. |
| I'm trying to | <small>List their outcome or "job" the care about - what are they trying to achieve?</small> | Our application tries to eliminate the difficulty that deaf and dumb people facing while communicating with normal people |
| but | <small>Describe what problems or barriers stand in the way – what bothers them most?</small> | When they need to convey an urgent message or When they encounter new people and places. |
| because | <small>Enter the "root cause" of why the problem or barrier exists – what needs to be solved?</small> | There is lack of proper communication facilities to convey a wide variety of messages between a specially abled and a normal person who doesn't know sign language. |
| which makes me feel | <small>Describe the emotions from the customer's point of view – how does it impact them emotionally?</small> | They may be depressed because of the difficulties they face . |

Example:

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|------------------------|-----------------------------------|-------------------------------------|--|--------------------------|
| I am | I'm trying to | But | Because | Which makes me feel like |
| a Deaf and Dumb person | Communicate with everyone at ease | Everyone doesn't know sign language | There may be no reason for them to learn sign language | Not a normal person |