

Ideation Phase

Brainstorm & Idea Prioritization

Date	19 September 2022
Team ID	PNT2022TMID06610
Project Name	Project – Real-Time Communication System Powered by AI for Specially Abled
Maximum Marks	4 Marks

Step-1: Team Gathering, Collaboration and Select the Problem Statement:

1

Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

🕒 5 minutes







Problem Statement

A deaf-mute person is trying to communicate with other normal people, but he/she finds it difficult to do so because the rest of them cannot understand their sign language with the exception of a few, which makes him/her feel left alone, depressed, sad, inferior, insecure and incompetent.



Key rules of brainstorming

To run a smooth and productive session

-  Stay in topic.
-  Encourage wild ideas.
-  Defer judgment.
-  Listen to others.
-  Go for volume.
-  If possible, be visual.

Step-2: Brainstorm, Idea Listing and Grouping:

2

Brainstorm

Write down any ideas that come to mind that address your problem statement.

🕒 10 minutes

SURYA NARAYANAN

It should use deep-learning to translate deaf-mute sign language

Our product should help the deaf-mute to communicate with normal people

Use neural networks to translate the sign language

Input: Sign language
Output: Translated normal language

GOUTHAM RAJ

It should have a easy to use GUI

Solution should be made universally accessible

Single Application

The cost should be less

SANTHOSH

Translation error should be as low as possible

Help the deaf-mute people mentally and emotionally

Bridge the gap between deaf-mute and normal people

It should convert sign language in a way that should be easy to grasp for normal people

BALAPATHY

Should work with existing hardware

Our product should be user-friendly

The deaf-mute should be able to use our product confidently

Improve the confidence of deaf-mute people

3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

🕒 20 minutes

SOLUTION SPECIFIC

It should use deep-learning to translate deaf-mute sign language

Single Application

Translation error should be as low as possible

Use neural networks to translate the sign language

Input: Sign language
Output: Translated normal language

It should have a easy to use GUI

USABILITY

Our product should be user-friendly

The deaf-mute should be able to use our product confidently

It should convert sign language in a way that should be easy to grasp for normal people

IT SHOULD SOLVE

Help the deaf-mute people mentally and emotionally

Bridge the gap between deaf-mute and normal people

Our product should help the deaf-mute to communicate with normal people

Improve the confidence of deaf-mute people

CONSIDERATIONS

Should work with existing hardware

The cost should be less

Solution should be made universally accessible

Step-3: Idea Prioritization:

4

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

🕒 20 minutes

