

## Ideation Phase

### Brainstorm & Idea Prioritization

Date	19 September 2022
Team ID	PNT2022TMID09332
Project Name	Real-Time Communication System Powered by AI for Specially Abled
Maximum Marks	4 Marks

#### Brainstorm & Idea Prioritization:

#### 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

People with hearing and speech disabilities need a system or a device that replaces their disability through hand gesture recognition and translating sign language to speech and vice versa so that their difficulty in communication with normal people reduces even during emergencies.



#### 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.

## Brainstorm:

2

### Brainstorm

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

🕒 10 minutes

#### TIP

You can select a sticky note and hit the pencil [switch to sketch] icon to start drawing!

### Renooh S

Human computer interface with high performance that provides a simple setup have also been developed

Collar that could help deaf people hear music. The collar converts auditory input into vibrations

Personalization in smart homes for disabled people is an approach adopted to personalize a smart home to people with special needs

For Visually challenged, Reading Braille aloud for future playback and it syncs with a Bluetooth without disturbing others

### Prahlad N

Lorm glove that translates handtouched alphabet to a common form of communication

Avaz is a picture based software application for children and adult with communication challenges. It is available in seven languages

French instant transcription app is used for group conversations. It is available in 90 languages

To convert the images that are captured into Braille dots, Eye ring is used which is a Braille scanner

### Ram Sundar

Robotic helping hand, a new mechanism for helping disabled people in various circumstances

Real-Time Communication System Powered by AI for Specially Abled. This helps to understand the sign language.

Written sound for the hearing impaired broadcasts the sound and responds with a brief verse

System and method for smart public transportation that offer service to help and improve the overall travelling experience for specially abled

### Mohana Prasad P

The Dragon Dictation mobile app which is accurate and simple to use. Also time is saved by using this app

The blind reader is a device and functions like a text-to-Braille converter

Machine learning based intelligent system for safe guarding specially abled people from strangers

GPS for blind is accessible through NotNav and NowNav GPS. It is simple to use and it announces the nearest street, crosswalks, turn-by directions, etc

## Group Ideas:

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

#### Group 1

Human computer interface with high performance that provides a simple setup have also been developed

Collar that could help deaf people hear music. The collar converts auditory input into vibrations

For Visually challenged, Reading Braille aloud for future playback and it syncs with a Bluetooth without disturbing others

Personalization in smart homes for disabled people is an approach adopted to personalize a smart home to people with special needs

Robotic helping hand, a new mechanism for helping disabled people in various circumstances

#### Group 2

Lorm glove that translates handtouched alphabet to a common form of communication

Avaz is a picture based software application for children and adult with communication challenges. It is available in seven languages

To convert the images that are captured into Braille dots, Eye ring is used which is a Braille scanner

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GPS for blind is accessible through NotNav and NowNav GPS. It is simple to use and it announces the nearest street, crosswalks, turn-by directions, etc

#### TIP



Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.

## Prioritize:

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

