Ideation Phase
Brainstorm & Idea Prioritization

Date	19 September 2022
Team ID	PNT2022TMID03716
Project Name	Real time communication system powered by AI for specially abled
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

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

How might we able to develop a real time communication system for specially abled using artificial intelligence and machine learning

Key rules of brainstorming

To run an 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

Person 1

We can use Artificial Intelligence to solve the problem	We have to make sure that the solution is feasible	It should be easier to understand and use
It should not contain any errors/defects		

Person 2

The problem should be completely addressed	The application should be simpler and more interactive	The inputs from the user should be stored properly
Hearing impaired people should have more noticable icons in the application		

Person 3

For visually impaired, we have to include a voice over to describe each and every step	The output must be prim and proper	for visually impaired, the inputs must be given in form of voices
First we have to categorize whether it is for visually impaired or hearing impaired		

Person 4

First the hand gestures should be properly recorded	The background noise must be removed	We have to allow room for upgradation of the application
We can have multiple other icons to make it ever more fun to use	Specially abled should be uncomfortable while using the app	

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 and break it up into smaller sub-groups.

🕐 20 minutes

The user should be able to easily understand how the system works, Interaction between the user and the system should be user friendly	Speech inputs can also be included to add an option for the individuals with visual impairement	Instant transcribing the conversation using a voice control similar to google assistant can be used	They should be able to easily navigate throughout the system and locate their specific needs

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**

Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

more user friendly

Simplified user interface with no errors

Enhanced lip reading

Proper detection of sign language/ voice

we can have some extra options to make it fun

Instant transcribing using voice control

TIP

Participants can use their cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the laser pointer holding the **H key** on the keyboard.

Feasibility

Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)