

Ideation Phase


Brainstorm & Idea Prioritization Template

Date	04 October 2022
Team ID	PNT2022TMID01280
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

Conducting Brainstorm



Real Time Communication system Powered by AI for Specially Abled

👤 Dymphina Mary C

👤 Jessica Judith S

👤 Pavithraa S

👤 Punitha R

1
Best "How Might We" Questions
🕒 10 minutes

QUESTION

How might we make conversations between normal and specially abled people simpler?

QUESTION

How might we help the deaf and dumb to feel included?

QUESTION

How might we make them felt heard?

QUESTION

How might we understand them ?

QUESTION

How might we help them in their disability?

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→

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm solo

Think and brainstorm your ideas in each squares

10 minutes

Jessica Judith S

- Learn Sign language as an additional language
- Use voice to text converter
- Use any means of written communication
- Use hearing aids or other amplifying devices
- Use an app that converts the gesture into text in real-time
- Build an AI model to recognize the gestures

Dymphna Mary C

- Use body language to express thoughts
- Text to voice message convertor
- Sign language to text or speech convertor
- Automation to predict the gestures
- Vibration devices to indicate emergency
- Device to transmit their message quickly

Pavithraa S

- Tailor the conversation and let them determine its pace
- we can use text to voice converter
- By converting text message into voice messages
- By using automation technology to forecast they gestures
- App which alarm when they are in contingency to avoid disaster
- After receiving message from specially abled people voice or text message should be send for their problem.

Punitha R

- By an app that take the hand gestures as input using camera
- Use of CNN model that is trained on different hand gestures
- By making the model to predict appropriate meaning for the gesture
- Making the app that displays text for the sign language
- App that gives default or predefined gestures sign in case of emergency
- By building an app that converts text to speech

3

Brainstorm as a group

15 minutes

We build an app gives predefined gestures in case of emergency

Make the model to predict the meaning of the gesture

We can build an app that converts text to speech

Use body language to express thoughts

Train the model by default gestures

We can use camera to get input of their gestures

Test the model by giving new gestures

Use Artificial Intelligence to identify the gestures



Step-3: Idea Prioritization

4

Decide your focus

🕒 5 minutes

Jessica Judith S



Dymphna Mary C



Pavithraa S



Punitha R



5

Idea Summary

🕒 5 minutes

The idea is to build an application which uses AI to detect the gestures made by the specially abled and convert them into speech for efficient communication

