

Ideation Phase

Brainstorm & Idea Prioritization


Date	19 September 2022
Team ID	PNT2022TMID08035
Project Name	Real-Time Communication System Powered by AI for Specially Abled
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization :

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

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

Template




Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

⌚ 10 minutes to prepare
🕒 1 hour to collaborate
👥 2-8 people recommended


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Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.


⌚ 10 minutes

**Team gathering**

Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.


**Set the goal**

Think about the problem you'll be focusing on solving in the brainstorming session.

**Learn how to use the facilitation tools**

Use the Facilitation Superpowers to run a happy and productive session.

[Open article](#) →




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


The main aim of the application is to enable deaf and dumb people to convey their information using signs which get converted to human-understandable language and speech in Artificial Intelligence





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

SUJITH KUMAR R

- Users to be understood by turning impaired speech patterns into fluent speech
- Smartphones are a powerful tool that helps users with communication
- Live chat interfaces for communication
- Mobile app for detection cases in offline mode
- It's used for displaying their ideas through text and voice chatbot
- Text to speech and speech to text library for the mobile platform
- Translate gestures or sign language into text and speech instantly
- Web accessibility helps improving to providing the access
- AI-voice-assisted technologies for accessibility of disabled people
- Speech-to-text and text-to-speech technologies come to aid
- Applications is used for communication medium between normal people and disabled people
- An Application which uses this model
- App utilizing the different pre-trained models
- An educational end for people with cognitive disabilities using app

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- Recognition by lip-reading for hearing ability
- Users can use text descriptions and icons
- They use google assistants for voice chat convert into Text
- They also use text bot for communication
- They use Hand Gestures for communication
- Otherwise Text and voice message for sharing there thoughts
- An instant transcription app that used to instantly transcribe the conversation of people
- Captioning in real-time for people who don't speak
- Voice-recognition technology for people with speech impairments
- They use voice (or) speech bot for communication
- Translations in speech or text for deaf people
- Dumb People
- They use google assistants for voice messages
- They use some advanced AI assistants for communicate
- Normalizes the speech to create an output of audio or text so that people with speech
- They also use hand signs for communication

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3 Group Ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, 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

COMMUNICATION

- App enables deaf and dumb people to convey their information using signs
- Sign language recognition and Gesture-based control are major applications
- Real-time captioning or translations for disabled people
- Conversion of Text to speech and Image to speech is done for the dumb people
- Users to be understood by turning impaired speech patterns into fluent speech

PREDICTION

- Inclusive design to conceive solutions meet the needs of disabilities to enhance accessibility
- It's used to predict the hand gesture for convert into speech (or) text type
- Prediction is also used to find the suitable sign language to communicate
- Preprocessing is much required task to be done in hand gesture recognition system
- Monitoring system used to detect and recognise real-time communication
- Machine learning prediction and classification models based on the real-time communication

APPLICATION

- The digital signal is transferred from the microprocessor is recorded in the android device
- Image acquisition is the process to capture the hand gesture images which represents different signs
- The resolution of various image capturing devices may results in different resolution of images
- Classification system consists of database that contains predefined patterns that compares with detected object to classify
- It is a plug and play setup which is simple to apply. This can easily make video calls

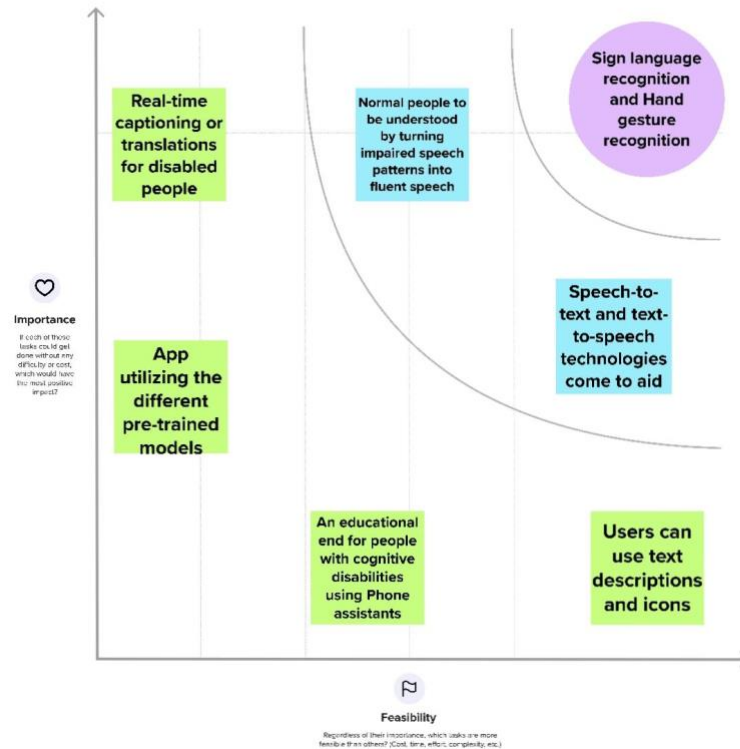
Step-3: Idea Prioritization

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



5

After you collaborate

You can export the mural as an image or pdf to share with members of your company who might find it helpful.

Quick add-ons

- Share the mural**
Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.
- Export the mural**
Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

Keep moving forward

- Strategy blueprint**
Define the components of a new idea or strategy.
[Open the template →](#)
- Customer experience journey map**
Understand customer needs, motivations, and obstacles for an experience.
[Open the template →](#)
- Strengths, weaknesses, opportunities & threats**
Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.
[Open the template →](#)

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