REAL TIME COMMUNICATION SYSTEM POWERED BY AI FOR SPECIALLY ABLED

Communication plays a significant role in making the world a better place. Communication creates bonding and relations among the people, whether persona, social, or political views. Most people communicate efficiently without any issues, but many cannot due to disability. They cannot hear or speak, which makes Earth a problematic place to live for them. Being deaf and dumb pushes the subject to oblivion,

highly introverted. Harnessing technology to improve their welfare is necessary. In a tech era, no one should be limited due to his or her inability. The application of technology should create a platform or a world of equality despite the natural state of humans.
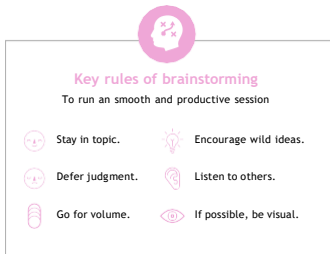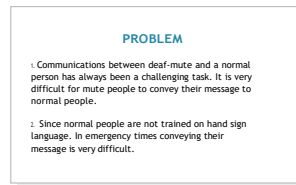
🕐 **10 minutes** to prepare
🖥 **1 hour** to collaborate
👤 **2-8 people** recommended

🏳 Share template feedback

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① Define your problem statement

Communications between deaf-mute and a normal person has always been a challenging task. It is very difficult for mute people to convey their message to normal people. Since normal people are not trained on hand sign language. In emergency times conveying their message is very difficult.

🕐 5 minutes

PROBLEM

: Communications between deaf-mute and a normal person has always been a challenging task. It is very difficult for mute people to convey their message to normal people.

: Since normal people are not trained on hand sign language. In emergency times conveying their message is very difficult.
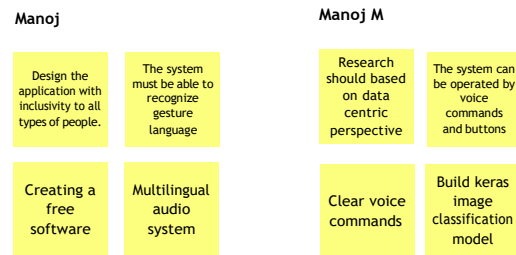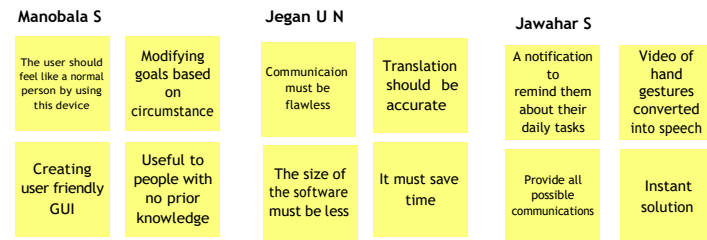
Key rules of brainstorming
To run an smooth and productive session

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

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② Brainstorm

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

🕐 10 minutes

Manobala S
- The user should feel like a normal person by using this device
- Modifying goals based on circumstance
- Creating user friendly GUI
- Useful to people with no prior knowledge

Jegan U N
- Communicaion must be flawless
- Translation should be accurate
- The size of the software must be less
- It must save time

Jawahar S
- A notification to remind them about their daily tasks
- Video of hand gestures converted into speech
- Provide all possible communications
- Instant solution

Manoj
- Design the application with inclusivity to all types of people.
- The system must be able to recognize gesture language
- Creating a free software
- Multilingual audio system

Manoj M
- Research should based on data centric perspective
- The system can be operated by voice commands and buttons
- Clear voice commands
- Build keras image classification model

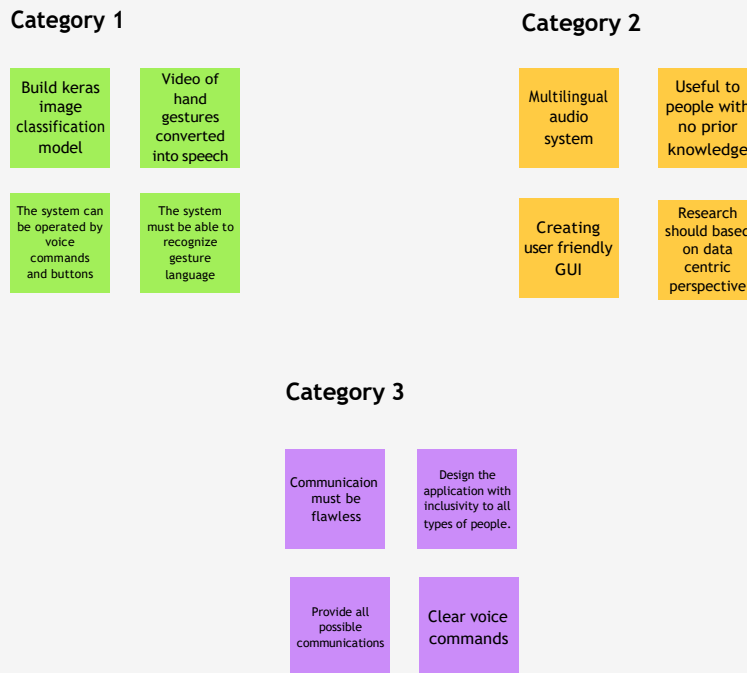
③ Group ideas

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

Category 1
- Build keras image classification model
- Video of hand gestures converted into speech
- The system can be operated by voice commands and buttons
- The system must be able to recognize gesture language

Category 2
- Multilingual audio system
- Useful to people with no prior knowledge
- Creating user friendly GUI
- Research should based on data centric perspective

Category 3
- Communicaion must be flawless
- Design the application with inclusivity to all types of people.
- Provide all possible communications
- Clear voice commands

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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?

- Clear voice commands
- Creating user friendly GUI
- Video of hand gestures converted into speech
- Multilingual audio system
- Useful to people with no prior knowledge
- Build keras image classification model
- Communicaion must be flawless
- Design the application with inclusivity to all types of people.
- The system must be able to recognize gesture language
- The system can be operated by voice commands and buttons
- Research should based on data centric perspective
- Provide all possible communications

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

➡ 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
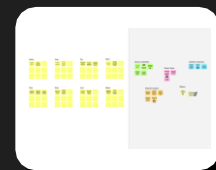
Strategy blueprint
Define the components of a new idea or strategy.
Open the template →

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 →

📝 Share template feedback

Need some inspiration?
See a finished version of this template to kickstart your work.
Open example →