

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	12 October 2022
Team ID	PNT2022TMID27182
Project Name	Real-Time Communication System Powered by AI for Specially Abled

Brainstorm & Idea Prioritization Template:

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.


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.

Reference:

<https://app.mural.co/t/student25008/m/student25008/1665161757039/0ad9cd79a9911b768cd597e03ea21a1700885b7e?sender=uf2f07d75b85eafd64aaa0004>

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

Share template feedback

➔

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

A

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

B

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

C

Learn how to use the facilitation tools
Use the Facilitation Superpowers to run a happy and productive session.

Open article ➔

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 create a system that converts sign language into human voice in desired language and vice versa ?



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

TIP

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

Person 1

Idea of communication

Sometimes her about the defects by their own

Lower educational and job opportunities due to impaired communication

Creating a welfare organization

Always face a deaf person

a custom and separate "space" in which deaf people are viewed as needing assistance

Person 2

that captures emotion

accuracy of the system is essential

make communicative assistance

avoid multiple detection

create seamless connectivity

a practice system for sign language

Person 3

creating a new environment to communicate with all people

help physically disabled people with the help of technology like neural network

to make a neural model to communicate with multiple sign language like American Sign Language etc

a system that can also be available in offline mode

model that can be used in both ways speech to sign and sign to speech

Trying to understand the requirement that every person who is deaf has to use some device which can help them to communicate with the normal people

Person 4

Convey the exact message

Communication consistency is the Key

Real time communication

Disabled person can express their feelings

Make deaf and dumb people to feel like normal

Understanding sign language and disabled people can share knowledge

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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

Conversion methods

sign to sign conversion

voice to text conversion

text to sign conversion

Convert sign language words with word list

Training methods

AI trained dataset

Use AI to train a neural network

Face to face learning dataset

Training custom words and phrases

Extra features

Video clips with subtitles

word conversion to multiple language

3D visual translation

Browser for word like dictionary

TIP

Ask a customizer to help to sticky notes to make it easier to find, browse, organize and categorize important ideas as themes within your notes.

The product interface from the screenshot above will be converted as an image of the system and will be used as the data set for the model. The data set will be used to train the model and the model will be used to convert the sign language into text.

Step-3: Idea Prioritization

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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

