

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
Maximum Marks	4 Marks

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 drawing) icon to start drawing!

Person 1

Idea of communication

Sometimes her about the defects by their own

Tower educational and job opportunities due to impaired communication

Creating a welfare organization

Always face a deaf person

is narrow and unpractical viewpoint in which deaf people are viewed as needing assistance

Person 3

creating a easy environment to communication with all people

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

to make a sound machine to communicate with machines like language, the network, the brain 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

Try to understand the importance of this, when you make the machine you have to make sure that it is not only for hearing people but for communication

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 4

Convery the exact message

Conversation consistency is the key

Two line communication

Disabled person can express their feelings

Make deaf and dumb people to feel like normal

Understanding sign language and deafness people can share knowledge

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

Conversion methods

sign to alphabet conversion

voice to text conversion

text to sign conversion

Conversion to human speech with emotion

Training methods

AI trained dataset

Use AI to train and learn dataset

Expo to face learning tutors

Training on speech words and phrases

Extra features

Video clips with subtitles

word conversion to multi language

3D avatars

knows the words like dictionary

The pictures captured from the speech device will be converted to sign and will be converted to speech and will be available in the data and will also be able to convert to the speech and will be available

TIP

Add customisable tags to sticky notes to make it easier to find, browse, categorise and categorise important ideas as degrees with in your topic

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

