

## Ideation Phase

### Brainstorm & Idea Prioritization Template

Date	18 October 2023
Team ID	592869
Mentor:	Saumya Mohandas Mam
Project Name	Lip Reading using Deep Learning
Maximum Marks	5 Marks
Team:	Madhav Sonu Kumar Gyaneshwer Jha Jodgudri Pratik Shivamurti


#### 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://www.mural.co/templates/empathy-map-canvas>

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



### 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

**➔ 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

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**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.

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**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

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PROBLEM

How might we [your problem statement]?

**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.

## Step-2: Brainstorm, Idea Listing and Grouping

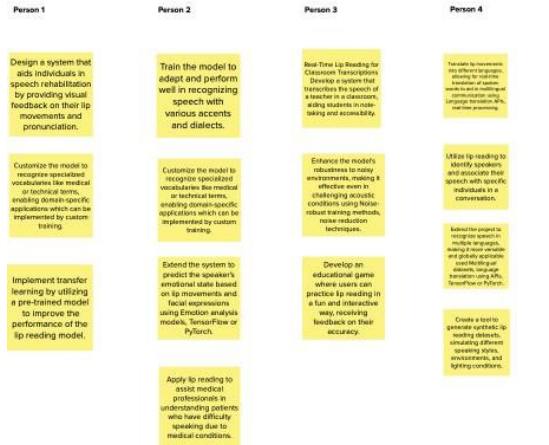
2

### 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 (edit) icon to start drawing!



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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

**TIP**  
Add color-coded tags to sticky notes to make it easier to find, organize, categorize, and categorize important ideas as themes within your mind.

### 1) Core Lip Reading Functionality:

1. Real Time Lip Reading Application
2. Lip Reading for Multiple Languages
3. Improved Performance with Transfer Learning

### 2) Enhancements and Adaptations:

1. Enhanced Privacy with Edge Computing
2. Visual Lip Reading Content Generation
3. Multi-person Lip Reading
4. Adaptive Lip Reading for Device Accuracy
5. Lip Reading for Noisy Environments
6. Lip Reading for Specialized Vocabulary

### 3) Assistance and Accessibility:

1. Adaptive Lip Reading for Speech Rehabilitation
2. Integration with Augmented Reality (AR)
3. Lip Reading for Authentication
4. Real Time Lip Reading for Classroom Transcriptions
5. Lip Reading for Medical Applications

### 4) Multi-Modal and Specialized Applications:

1. Lip Reading for Emotional Analysis
2. Cross-Modal Integration
3. Interactive Lip Reading Games
4. Lip Reading Accessibility Plugin
5. Real Time Translation of Lip Movements
6. Lip Reading for Speaker Identification

## 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

**TIP**  
Participants can use their cursor to point at where sticky notes should go on the grid. The facilitator can confirm this spot by using the laser pointer holding the M key on the keyboard.

