

Ideation Phase

Brainstorm & Idea Prioritization Template


Date	19 September 2022
Team ID	591865
Project Name	End-to-end Lip Reading deep learning project.
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.

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

➔

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 ➔

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Define your problem statement

In our lip reading project, we are dedicated to addressing a significant challenge faced by individuals with hearing impairments—specifically, the difficulty in comprehending spoken words across various social and professional settings. Our overarching goal is to empower these individuals by seamlessly integrating deep learning technologies into their communication experiences. By leveraging advanced deep learning techniques, our project focuses on providing a tool that not only caters to the unique needs of individuals with hearing impairments but also enhances their independence and confidence in communication. The core challenge we aim to tackle is the accurate understanding of spoken words, with the versatility of our solution extending to diverse contexts.

🕒 5 minutes

PROBLEM

Lip reading using deep learning



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

Develop a user-friendly mobile application that utilizes deep learning to provide real-time, accurate lip reading transcriptions.

Implement a visual feedback system using augmented reality to highlight and enhance lip movements for better understanding.

Integrate the lip reading AI with virtual assistants for hands-free, voice-activated control, enhancing accessibility in various environments.

Implement data privacy and compliance measures to protect user data.

Optimize revenue and profitability.

Design a discreet wearable device equipped with a camera and deep learning algorithms for on-the-go lip reading assistance.

Introduce personalized user profiles allowing individuals to tailor the lip reading AI to their specific needs and preferences.

Expand functionality to include real-time language translation, facilitating communication in multilingual settings.

Develop interactive modules within the app for users to practice and improve their lip reading skills over time.

Create an online platform where users can share experiences, tips, and challenges, fostering a supportive community.

Implement an offline mode allowing users to access basic lip reading features without the need for a constant internet connection.

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 and break it up into smaller sub-groups.

20 minutes

Implement data privacy and compliance measures to protect user data.

Optimize revenue and profitability.

Investigate data sources and tools that may enhance feasibility.

Identify unusual behavior within customer segments.

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

Implement an offline mode allowing users to access basic lip reading features without the need for a constant internet connection.

Expand functionality to include real-time language translation, facilitating communication in multilingual settings.

Implement data privacy and compliance measures to protect user data.

Investigate data sources and tools that may enhance feasibility.

Importance

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

Feasibility