

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	18 October 2023
Team ID	Team-592632
Project Name	Asl- Alphabet Image Recognition
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://www.mural.co/templates/empathy-map-canvas>

Step-1: Team Gathering, Collaboration



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.

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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

PROBLEM

How might we [your problem statement]?

Key rules of brainstorming

To run a smooth and productive session

🗣️ Stay in topic.

💡 Encourage wild ideas.

⏸️ Defer judgment.

👂 Listen to others.

🗣️ Go for volume.

👁️ If possible, be visual.

Step-2: Select the Problem Statement ,Brainstorm and Idea Listing

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

Who:ASL users and their accessibility to communication technology.

When:Issue occurs during ASL sign recognition; ongoing improvement is essential.

Where:The issue arises in recognizing ASL signs in images.

What:The project's scope includes recognizing static ASL signs accurately

Why:Crucial for inclusive communication, empowering the ASL community.

PROBLEM

How can we develop real-time ASL recognition for inclusivity while empowering the deaf and hard of hearing in various settings, including education and employment

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

Investigate the potential of transfer learning to adapt pre-trained models for ASL recognition, potentially accelerating the model development process.

Implement specialized techniques to optimize the model for real-time performance on various platforms, including mobile devices and web applications

Testing phase that includes real-world scenarios and challenges, such as various lighting conditions and sign speed, to ensure robustness.

Person 2

Create an intuitive and user-friendly interface for the ASL recognition system, focusing on clear sign feedback, accessible settings, and user customization.

Prioritize accessible design, including keyboard shortcuts, screen reader compatibility, and customizable sign size and speed settings to cater to diverse user needs.

Design an integrated feedback mechanism allowing users to provide input on recognition accuracy and user experience, ensuring continuous improvements.

Person 3

Investigate and address variations in ASL signs, including regional dialects and differences, by building a robust dataset to encompass diverse signing styles

Develop a linguistic module that can recognize nuances and emotional aspects of signs, enabling more expressive communication.

Collaborate with ASL experts and the deaf community to ensure that the recognition system respects ASL's cultural nuances and ethical considerations.

Person 4

Establish partnerships with educational institutions and organizations to incorporate the ASL recognition system into the curricula and offer training resources.

Create gamified learning modules and educational tools that integrate with the recognition system, helping ASL learners improve their skills.

Explore the development of ASL certification programs that use the recognition system to assess proficiency and provide formal recognition of signing abilities.

Step-3: Grouping

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

TIP

Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.

User-Centric Approach:

Maintain a relentless focus on the user, actively involving ASL users, educators, and the deaf community to guide system development and enhancements.

Accessibility and Inclusivity: Ensuring the system is accessible to a wide range of users, including those with disabilities, and promoting inclusivity.

Data Privacy and Security:Implement rigorous data privacy and security measures to protect ASL images and user data, ensuring trust and compliance with regulations

Iterative Development:

Embrace an iterative development process, integrating user feedback and continuous testing to refine the ASL recognition system for accuracy and usability

Collaboration: Fostering collaboration among team members, ASL experts, educators, and users to collectively drive the development of the ASL recognition system.

Step-4: Idea Prioritization

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 cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the near pointer holding the **H** key on the keyboard.

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](#)

Regardless of their importance, which tools are more relevant than others? (Voice, text, effort, company, etc.)

Link to our Mural:

<https://app.mural.co/t/dheekshithkumargaliveedu6517/m/dheekshithkumargaliveedu6517/1697632451283/ac6ad6b1cabe5a0478a79d09666aa8b77b5da7af?s=ender=uf9992513daa9ff4e2d935144>