

Ideation Phase
Brainstorm & Idea Prioritization Template

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|---------------|---------------------------------|
| Date | 01 November 2023 |
| Team ID | Team-591587 |
| 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.

Reference:

<https://app.mural.co/t/hariharapidikitigmailcom6929/m/hariharapidikitigmailcom6929/1700153072242/5a229717c4b0a3c056e3494de646d80407f100bc?sender=u4714fdcf99c4c196b582404>

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

2

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

Team gathering

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

Set the goal

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

Learn how to use the facilitation tools

Use the Facilitation Accelerators to run a happy and productive session.

Open article

3

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

Develop a deep learning model to accurately recognize ASL, alphabetic gestures from images, addressing challenges such as gesture complexity, variable lighting, and limited datasets. Optimize the model for real-time processing and explore user interface integration, aiming for seamless communication for individuals with hearing impairments. Success will be measured by high accuracy, real-time efficiency, and practical application viability.

Challenges

Gesture Complexity

Variable Lighting and Backgrounds

Limited Dataset

Real-time Processing

User Interface Integration

Step-2: Brainstorm, Idea Listing and Grouping

4

Brainstorm

Write down any ideas that come to mind that address your problem statement.

10 minutes

Tip

You can extend a sticky note and add more ideas as you brainstorm. Simply drag the bottom edge.

Person 1

Collaboration with ASL Experts: Partner with experts in American Sign Language (ASL) to gain insights into the nuances of gestures, ensuring the model aligns closely with authentic signing practices.

Gamification for Training: Develop a gamified application to make learning and practicing ASL, alphabetic gestures enjoyable, fostering user engagement and contributing to improved model performance.

Cross-cultural Considerations: Account for variations in ASL gestures across different regions and communities, promoting inclusivity and accommodating diverse signing styles within the model's training data.

Person 2

Mobile Application Development: Create a mobile application that integrates the ASL, alphabetic gesture recognition model, providing a user-friendly interface for on-the-go communication and learning.

Accessibility Features: Ensure the model and application include accessibility features, such as voice feedback for recognized gestures, to enhance usability for individuals with varying levels of hearing impairment.

Open Source Collaboration: Foster an open-source community around the project, encouraging collaboration, contributions, and the development of complementary tools for ASL communication.

5

Group Ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all story notes have been grouped, give each cluster a sentence-to-the state. If a cluster is bigger than six story notes, try and see if you can break it up into smaller sub-groups.

20 minutes

Tip

Add captions to your sticky notes to make them easier to find. You can also group and categorize your sticky notes as they come out of your brain.

Investigate the potential of transfer learning with pre-trained models to enhance recognition accuracy.

Engage the ASL community in crowdsourcing for dataset expansion, addressing the challenge of limited data.

Develop a gamified mobile application with accessibility features, creating an enjoyable learning and practice experience.

Implement edge computing for real-time processing, reducing latency in ASL gesture recognition.

Foster an open-source community for collaborative development and knowledge sharing.

Collaborate with educational institutions to integrate ASL recognition technology into curricula, promoting awareness and accessibility.

Step-3: Idea Prioritization

1 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 cameras to point at items & write notes about go on the grid. The facilitator can confirm the text by using the app pointer tooling the display on the screen.

2 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

- Show the mural**
 Show a new link to the mural with annotations 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 →](#)