

Ideation Phase

Brainstorm & Idea Prioritization Template


Date	30 October 2023
Team ID	Team-591769
Project Name	ASL - American Sign Language 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.

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

Template



Brainstorm & idea prioritization

American Sign Language prediction using alphabet images with Deep learning

🕒 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](#) ➔

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 Statement

How might we help deaf and hard-of-hearing individuals who face significant barriers to make effective communication and access to information in a predominantly spoken language world? The gap between the ASL community and the hearing population results in limited opportunities, isolation, and unequal access to education, employment, healthcare, and social participation.

Challenges

Social Stigma

Educational Barriers

Communication in Public Spaces

Sign Language Variation

Employment Disparities

Access to Sign Language Interpreters

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 sketch) icon to start drawing!

Srivatsa

Mobile app that uses the ASL model to translate real-time sign language gestures into text or speech

Promote the inclusion of ASL in school curricula to increase awareness

Integrate ASL into emergency services to improve communication with deaf individuals in critical situations.

Use the technology to automatically generate ASL interpretations for online video content

Harish

Wearable smart gloves with embedded sensors and AI that can detect and translate ASL signs in real-time.

Awareness campaigns to educate the general public about the importance of ASL

Incorporate the ASL into gaming or interactive apps that encourage users to learn and practice ASL in a fun and engaging way.

Extend the system to recognize and interpret different sign languages used worldwide

Naeem

Platforms for the creation and sharing of ASL stories, poetry, and creative content, allowing the deaf community to express themselves.

AI-powered chatbots that understand ASL and provide information or assistance

Promote the development of a universal ASL standard that simplifies the learning process for both deaf and hearing individuals

Create a comprehensive ASL sign dictionary app that provides easy access to thousands of signs

Dheeraj

Online platforms and apps that offer comprehensive ASL learning courses for both deaf and hearing individuals

A network of trained volunteers or professionals who can offer in-person or virtual ASL interpretation services

Encourage content creators to include ASL interpretations in their videos and multimedia content

Feedback mechanisms in the ASL system to continuously improve accuracy and better adapt to the unique signing styles of individuals.

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.

Online platforms and apps that offer comprehensive ASL learning courses for both deaf and hearing individuals

Feedback mechanisms in the ASL system to continuously improve accuracy and better adapt to the unique signing styles of individuals.

Promote the inclusion of ASL in school curricula to increase awareness

Awareness campaigns to educate the general public about the importance of ASL

Extend the system to recognize and interpret different sign languages used worldwide

AI-powered chatbots that understand ASL and provide information or assistance

Promote the development of a universal ASL standard that simplifies the learning process for both deaf and hearing individuals

Step-3: Idea Prioritization

4

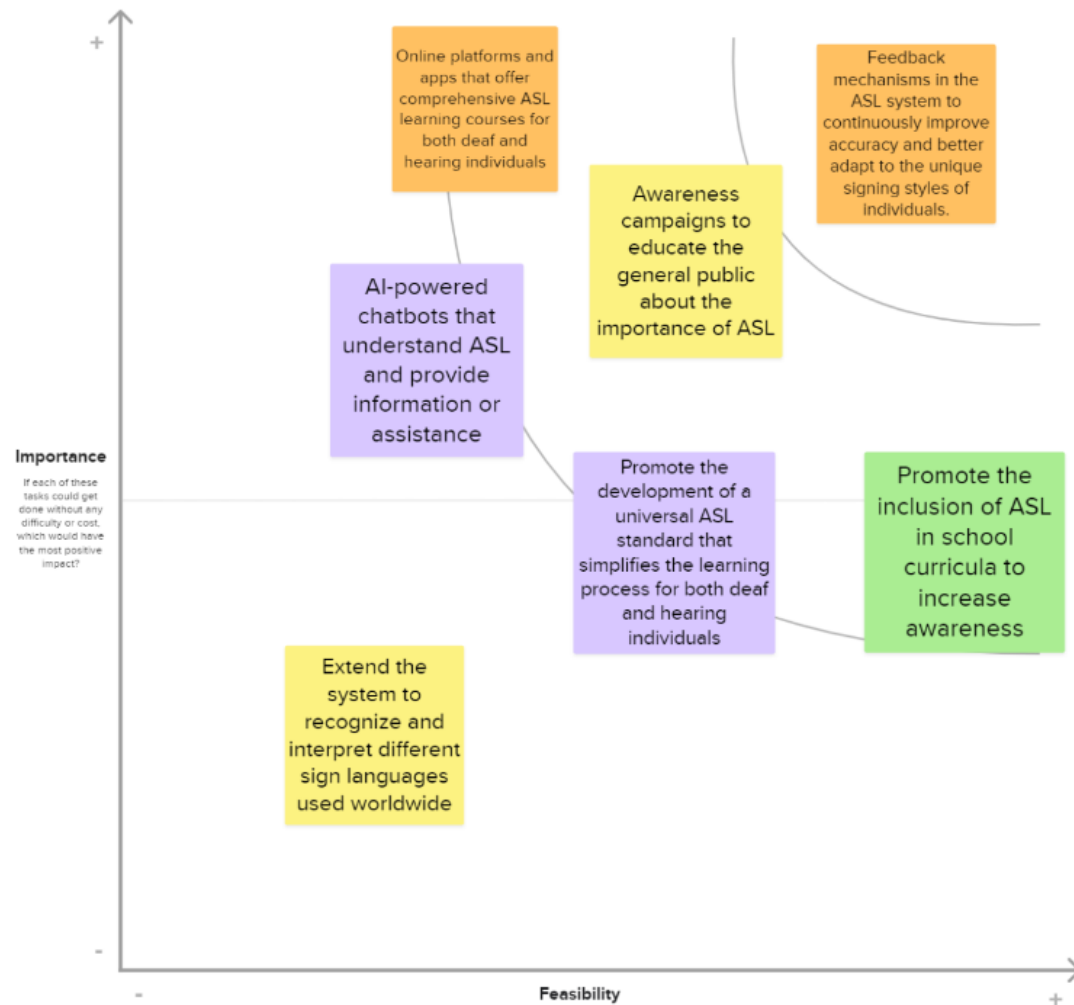
Prioritize

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

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 laser pointer holding the **H** key on the keyboard.



Reference link(Our mural)-

<https://app.mural.co/t/aslamericansignlanguagerecog2280/m/aslamericansignlanguagerecog2280/1698657838622/02a3acb2c68b344ed7290083be0242d2891b6065?sender=u003323459992c6fd5fe03076>