

# Ideation Phase


## Brainstorm & Idea Prioritization Template

Date	21 November 2023
Team ID	Team-592184
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.

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

<div>Template</div> <div></div> <div><h2>Brainstorming &amp; Idea Prioritization</h2></div> <div><div>American Sign Language Prediction Using Alphabet Images With Deep Learning.</div></div> <div><div>⌚ 15 minutes to prepare</div><div>🕒 30-60 minutes to collaborate</div><div>👤 3-8 people recommended</div></div>	<div><div>➡</div><h3>Before you collaborate</h3><p>A little bit of preparation goes a long way with this session. Here's what you need to do to get going.</p><div>⌚ 15 minutes</div></div> <div><div>A</div><b>Team Gathering</b><p>Define who should participate in the session and send an invite . Share relevant information or pre work ahead.</p></div> <div><div>B</div><b>Set The Goal</b><p>Think about the problem you'll be focusing on solving in the brainstorming session.</p></div> <div><div>C</div><b>Learn How To Use The Facilitation Tools</b><p>Use the facilitation superpowers to run a happy and productive session.</p></div>	<div><div>1</div><h3>Define your problem statement</h3><p>What Problem are you trying to solve ? Frame your problem as a <b>"How Might We"</b> statement. This will be the focus of your brainstorming</p><div>⌚ 10 minutes</div></div> <div><div>PROBLEM STATEMENTS....!!!</div></div> <div><div>How Might We improve real-time translation of ASL gestures into written or spoken language, ensuring fast and accurate communication for users?</div></div> <div><div>How Might We ensure user privacy and data security in ASL recognition systems, allowing users to have control over their personal information?</div></div> <div><div>How Might We make communication more accessible for the deaf and hard-of-hearing through an ASL recognition system ?</div></div> <div><div>How Might We enhance ASL recognition by incorporating accurate facial expression recognition and expressive communication?</div></div>
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## Step-2: Brainstorm, Idea Listing and Grouping

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### Brainstorm

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

10 minutes

#### Sunith Kumar

Create chatbots that understand and respond in ASL, offering a communication platform for deaf individuals .

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

Develop interactive storytelling apps for children that use ASL recognition to translate written stories into sign language.

Create interactive online platforms that use ASL recognition for teaching sign language, offering learning experiences.

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

Integrate ASL recognition into gaming experiences, enabling players to use sign language for in-game commands and communication.

Implement ASL recognition in smart home devices, allowing users to control lights, appliances, and other devices using sign language.

Incorporate ASL recognition into social media platforms, allowing users to share videos in sign language.

#### Basera

Implement ASL recognition technology in educational settings to provide real-time transcription of spoken content for deaf or hard-of-hearing students.

Create a mobile app that allows users to translate spoken or written language into ASL gestures and vice versa

Develop a crowd-sourced ASL dictionary app where users can contribute and share video clips of ASL signs.

Develop video conferencing platforms with ASL recognition features, making virtual meetings more inclusive for deaf professionals.

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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 sticky notes , try and see if you can break it up into sub groups .

**TIP**  
You can use the Voting session tool above to focus on the strongest ideas.

15 minutes

Create chatbots that understand and respond in ASL, offering a communication platform for deaf individuals .

Create interactive online platforms that use ASL recognition for teaching sign language, offering learning experiences.

Create a mobile app that allows users to translate spoken or written language into ASL gestures and vice versa

Incorporate ASL recognition into social media platforms, allowing users to share videos in sign language.

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

Implement ASL recognition technology in educational settings to provide real-time transcription of spoken content for deaf or hard-of-hearing students.

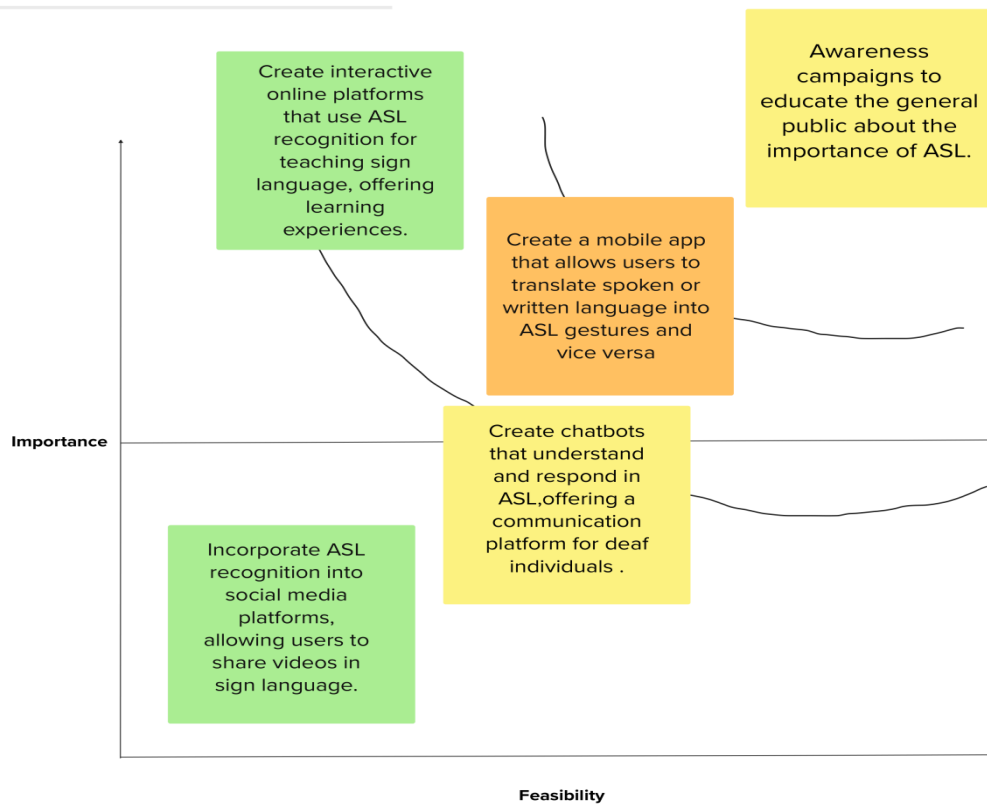
## Step-3: Idea Prioritization

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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.

🕒 15 minutes



### Reference:

<https://app.mural.co/t/vanshikajammula8578/m/vanshikajammula8578/1700550850588/248f1607610cfd93b28c9a7e2b08973b4708d1?sender=u677164f74093c82194700283>