Ideation Phase
Brainstorm & Idea Prioritization Template

Date	18 October 2023
Team ID	592675
Project Name	ASL- Alphabet Image Recognition
Maximum Marks	5 Marks

Brainstorm & Idea Prioritization Template:

Introduction (5 minutes):
- Briefly explain the objective and the importance of brainstorming in the creative process.
- Encourage participants to relax, be open, and embrace all kinds of ideas.

Silent Idea Generation (10 minutes):
- Individually, jot down as many ideas as you can related to the objective.
- Do not critique or evaluate your own ideas at this stage.

Sharing Ideas (10 minutes):
- One by one, have participants share their ideas with the group.
- Each participant briefly explains their idea, without debate or discussion.
- The focus is solely on sharing and listening.

Idea Building and Combining (5 minutes):
- After all ideas have been shared, invite participants to suggest ways to build upon or combine ideas.
- Encourage open discussion and creativity in expanding on the initial concepts.

Reflection and Closing (5 minutes):
- Ask participants to reflect on the ideas generated and the process.
- Thank everyone for their participation and emphasize the value of their creativity.

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

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

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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 six sticky notes, try and see if you and break it up into smaller sub-groups.

⏱ 20 minutes

Person 1

Create a mobile application that utilizes computer vision to recognize real-time ASL signs and converts them into text or speech, facilitating effortless communication between the deaf and hearing communities.

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Establish an online platform that serves as a hub for ASL learning resources, virtual practice sessions, and real-time ASL communication support, promoting learning and fostering a community of sign language users.

Person 2

Integrate ASL recognition technology into popular video conferencing platforms, making remote communication inclusive by automatically translating signed conversations into text or spoken language for all participants.

Design and produce specialized keyboards for digital devices, tailored to ASL finger spelling, enhancing the ease and speed of text input for the deaf community.

Implement AI-powered ASL interpretation for video content, ensuring that online videos, lectures, and presentations are accessible to all through real-time sign language translation.

Person 3

Deploy ASL recognition kiosks in public spaces, such as airports, hospitals, and government offices, to provide immediate assistance and information in sign language, bridging communication gaps.

Offer ASL training modules for voice assistants like Siri and Alexa, allowing users to interact with these AI systems in sign language and receive responses in their preferred mode of communication.

Develop a comprehensive ASL recognition API, empowering developers to integrate real-time ASL recognition capabilities into various applications, ranging from mobile apps to assistive technologies, to make communication more inclusive.

Real-time ASL Recognition Technology

Create a mobile application that utilizes computer vision to recognize real-time ASL signs and convert them into text or speech, facilitating communication.

Develop wearable devices, such as smart gloves or glasses, embedded with ASL recognition technology for instant visual or auditory feedback.

Explore the use of sign language recognition for hands-free devices, allowing users to communicate more naturally.

ASL Learning and Support

Establish an online platform that serves as a central hub for ASL learning resources, virtual practice sessions, and real-time ASL communication support.

Offer ASL training modules for voice assistants like Siri and Alexa, allowing users to interact with these AI systems in sign language.

Develop a user-friendly mobile app for ASL learners, providing interactive lessons and practice exercises to enhance their sign language skills.

Accessibility and Integration

Integrate ASL recognition technology into popular video conferencing platforms, ensuring that remote communication becomes more inclusive, with signed conversations automatically translated into text or spoken language.

Design specialized ASL-friendly keyboards for digital devices, tailored to ASL finger spelling, making text input more efficient for the deaf community.

Deploy ASL recognition kiosks in public spaces, such as airports, hospitals, and government offices, to provide immediate assistance and information in sign language, bridging communication gaps for deaf individuals.

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.

⏱ 20 minutes

Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

- Develop wearable devices for immediate ASL feedback
- Establish an online platform for ASL learning and support
- Integrate ASL recognition into video conferencing platforms
- Create a mobile application for real-time ASL translation
- Offer ASL training modules for voice assistants
- Implement AI-powered ASL interpretation for video content
- Deploy ASL recognition kiosks in public spaces
- Design ASL-friendly keyboards for digital devices

Feasibility

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