

# User Stories

## Hands position

**As an** user who can't talk

**I want** the program to recognize the position of my hands

**To** calibrate the subsequent motion recognition

## Identify moviments

**As an** user who can't talk

**I want** the program can identify the moviments of my hand

**So** that it can search for patterns in the motion that match the Mexican Sign Language positions.

## Transcription text

**As an** user who can't talk

**I want** the system to write a text with the transcription of the user's sign language.

**So** that a person who doesn't know sign language can understand what I'm trying to communicate.

## Feedback

**As an** user who is using the program

**I want** the program to provide feedback to indicate that the movements or gestures have been recognized correctly

**So** that the user knows that there were no complications in the transcription process.

## Visual or text indicators

**As an** user who is using the program

**I want** the system to provide visual or text indicators about the current state of the system.

**So** that I can know what process the program is performing and whether I need to interact at any point

# Acceptance criteria

## Hands position

- The hand position recognition is done through the camera
- The motion recognition system should be accurate and consistent after calibration, so that the user can effectively control the connected program or device.
- Provide clear and easy-to-understand documentation explaining how to perform calibration and how to use the motion recognition system once calibrated.
- Conduct usability tests with non-speaking users to ensure that the calibration process is intuitive and effective.

## Identify moviments

- The program should allow the user to search for specific signs in Mexican Sign Language and provide information about their meanings and usage.
- Machine Learning (Optional): If machine learning is used, the program should be capable of improving its ability to identify signs as it is provided with more examples.

## Transcription text

- There is a space where the transcribed text will appear.
- The program recognized all or enough of the movements to form a result.

## Feedback

- The program displays a visual or text notification when it correctly recognizes a movement or gesture.
- The correct recognition notification is displayed in real-time or with a brief delay so that the user is aware of recognitions while using the program.
- If a complication arises in the transcription process, the program must inform the user clearly and provide details about the issue.

## Visual or text indicators

- These indicators are easily visible and comprehensible to the user.
- The system ensures that users can easily differentiate between different states and understand their significance.
- The indicators are updated in real-time or with minimal delay to keep users informed of the system's status and any necessary actions.