

# A VOICE

## Description of Product

A service which allows hearing impaired people to converse in a more natural and independent way whilst interacting with professionals e.g. retail stores, doctors, receptions etc. It recognises sign language and outputs the message in audio, assisting communication between the two parties.

## Goal

To create a more friendly and inclusive community for those who use sign language. It will minimise the difficulty of communication and interaction between those who have hearing/speaking difficulties and others who are not familiar with sign language. Providing people with hearing disabilities with an improved experience and empower them a sense of independence in everyday life.

## Target Demographic

This product is targeted towards organizations looking to improve the services they provide by supporting the hearing-impaired community by offering a more natural and independent conversing environment.

## How it works

A leap motion sensor is used to detect the hand movements gestures, and the API is used to teach hand gestures to the sensor in order to translate them into text. When a gesture is recognised the text translated from the hand gesture will be transferred to the firebase database, which is then sent to the Android app. From there the text appears on the screen of the device and is read out loud.