As we all know, there is a bunch of people who can’t communicate with others like normal people. They are deaf-dumb or blind.

# Scenario

## Scenario 1

Chat with friends including normal or deaf-mutes.

1. Before:

I’m deaf-mute. In order to make my life colorful and meaningful, sometimes I really want to share my stories or communicate with normal people. At this time, I will grab my smartphone and start the app.

1. During:

I search in my friends list and find good friends to have a communication with using sign language. This way, I am not lonely.

1. After:

I feel happy that I share the story with my friends. My life is more like normal.

## Scenario 2

Ask for help when outside

1. Before:

I am new to a city, and now I am in a restaurant with several deaf-mute friends. When ordering meal, I express my idea using sign language, but the waiter can’t understand what I mean. In this case, I use this app to translate the sign language into text.

1. During:

I use sign language, and the app helps me translate it into text to make the waiter understand me.

1. After:

We order what we want and enjoy a tasty meal. Also, the restaurant installs this app especially for deaf-mute people.

## Scenario 3

Sharing when some special things happened

1. Before:

I take part in a show and after that, I can’t wait to tell all the friends that I am so excited in the show.

1. During:

I use the app with sign language to express my feeling.

1. After:

My friends know what happened to me and feel happy for me.

# Use cases

## 2.1. Use case 1-Registration for deaf-mute or normal

**Precondition**-none

**Description**-The user chooses text input or sign language. For voice input, the user just needs to speak out the name, email, password and deaf-mute, blind or normal. During registration, the app will provide voice interaction with user.

**Postcondition**-Return the result of registration. Redirect to the login page.

**Exception**-The user misses some info, the info is repeated or the translation from sign language to text has some error. The app reminds the cause of false registration.

## 2.2 Use case 2-Registration for the blind

**Precondition**-none

**Description**-The user chooses voice input. For voice input, the user just needs to speak out the name, email, password and deaf-mute, blind or normal. During registration, the app will provide voice interaction with user.

**Postcondition**-Return the result of registration. Turn to the login page.

**Exception**-The user misses some info or the info is repeated. The translation from sign language to text has some error. The app reminds the cause of false registration.

## 2.3 Use case 3-Login for deaf-mute

**Precondition**-the user has registered.

**Description**-The user inputs the name and password. The user inputs text and clicks the Login button to login or uses sign language in the whole process. If the user is blind, he can input the name and password by voice.

**Postcondition**-The user logs in and turns to the main page. The info stores in local database to make it easy for next login.

**Exception**-The info input is wrong. There is a reminder displaying that the info is wrong.

## 2.4 Use case 4-Login for the blind

**Precondition**-the user has registered.

**Description**-The user inputs the name and password by voice.

**Postcondition**-The user logs in and turns to the main page. The info stores in local database to make it easy for next login.

**Exception-** The info input is wrong or the translation works not so well. There is a reminder displaying that the info is wrong.

## 2.5 Use case 5-Adding new friend for deaf-mute

**Precondition**-The user has logged in.

**Description**-The two users turn to “adding friend” page and shake their phone to add friends. One of them receives the add request, and he clicks “Accept” to add the friend.

**Postcondition**-The new friend is added to the friends list.

**Exception-** The slow network results in failing to add friend or refuses the add request.

## 2.6 Use case 6-chatting or express your idea

**Precondition**-The user has logged in (The restaurant installed the app)

**Description**-Turn to the friend list, click one on the list, a chatting room is created, then the user can express his idea by sign language and the app translates it to text.

**Postcondition**-The user’s friend receives the message and feedback to the user.

**Exception-** The translation works not so well or the bad network results in failing.

## 2.7 Use case 7-the deaf-mute share daily life with friends

**Precondition**-The user has logged in.

**Description**-Turn to “share” page, expressing what the user wants to share by sign language. Mainly dependent on sign language translation.

**Postcondition**-The app helps to translate it into text, and show it on the “share” page. Each friend has access to this piece of share.

**Exception-** The translation works not so well or the bad network results in failing.

## 2.8 Use case 8-The blind share daily life

**Precondition**-The user has logged in.

**Description**-Turn to “share” page, the app navigates the user to share his special things by voice interaction. The user inputs the info by voice input.

**Postcondition**-The app helps to translate it into text, and show it on the “share” page. Each friend has access to this piece of share.

**Exception-** The translation works not so well or the bad network results in failing.