

Sign Textify

App which transforms Romanian sign language gestures into text, making communication effortless and accessible for everyone

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Description

(1) One paragraph about **why** this app

In a world where communication barriers still exist, the need for effective interaction between the deaf and hearing communities has never been more critical. This app aims to bridge the gap by translating Romanian sign language into text in real-time, allowing users to communicate effortlessly. By providing a solution for translating gestures, it promotes inclusivity, enhances accessibility, and fosters understanding among diverse groups.

(2) One paragraph about **how** this app will achieve the why

Using the capabilities of the Kinect 360 and Microsoft SDK v1.8, the app captures hand and finger movements with precision. By incorporating computer vision technologies like EmguCV, it will recognize specific signs and gestures in Romanian sign language, converting them into corresponding text instantly.

(3) **What is different** compared to other solutions

Unlike existing sign language translation apps that often rely on text or voice input, this app harnesses real-time gesture recognition technology from visual input. Its integration with Kinect allows for dynamic interaction, enabling users to communicate naturally without predefined inputs. Additionally, its focus on Romanian sign language sets it apart in a market primarily dominated by solutions for more widely used sign languages, ensuring that Romanian speakers receive tailored support and resources.

Similar products & Relevant Links(>=3)

Sign Translate (alpha version)

[Sign Translate](#)

Relevant Features

- has an avatar which shows the signs for the given input (text/voice)
- provides translations from and to many languages
- includes multiple suggestive emojis for each sign movement separately

Hand Talk

[Hand Talk App](#)

Relevant Features

- two avatars which does the sign language movement from a given input (text/voice)
- provides translation for English and Brazilian
- allows customization of avatars
- save previous translations

Dicționar PeSemne

[Dicționar - PeSemne](#)

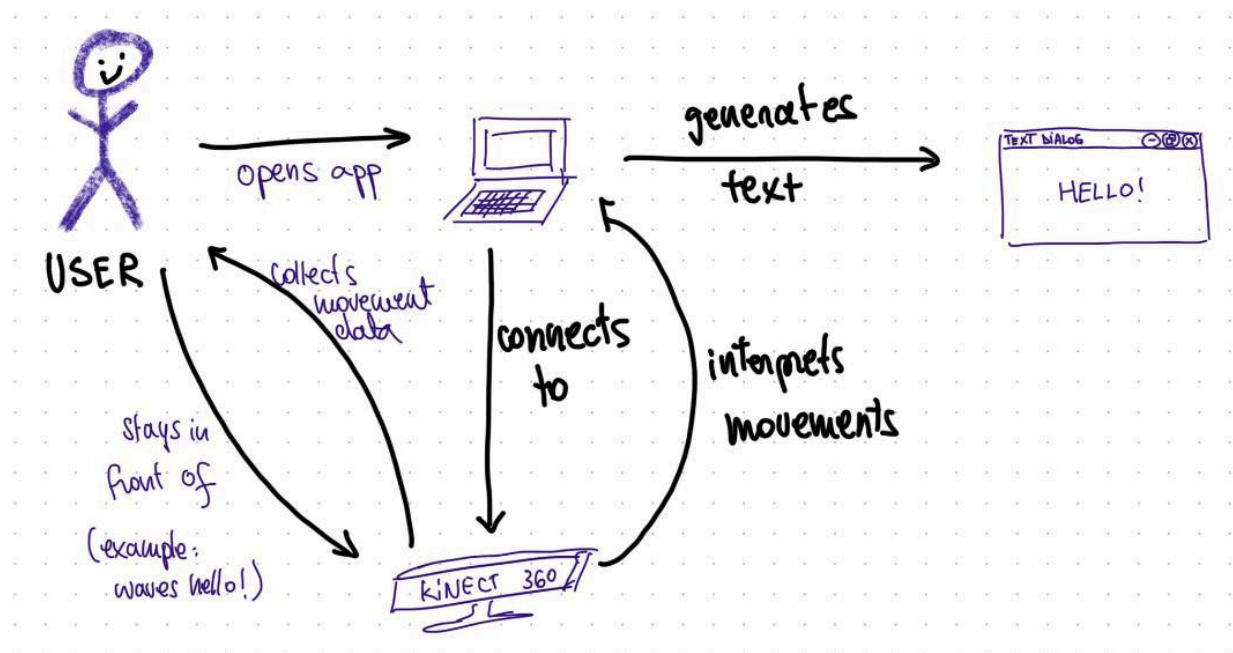
Relevant Features

- provides a visual dictionary of signs in Romanian sign language using videos.
- allows composing a sentence using words and expressions from the dictionary
- includes a small test for evaluation

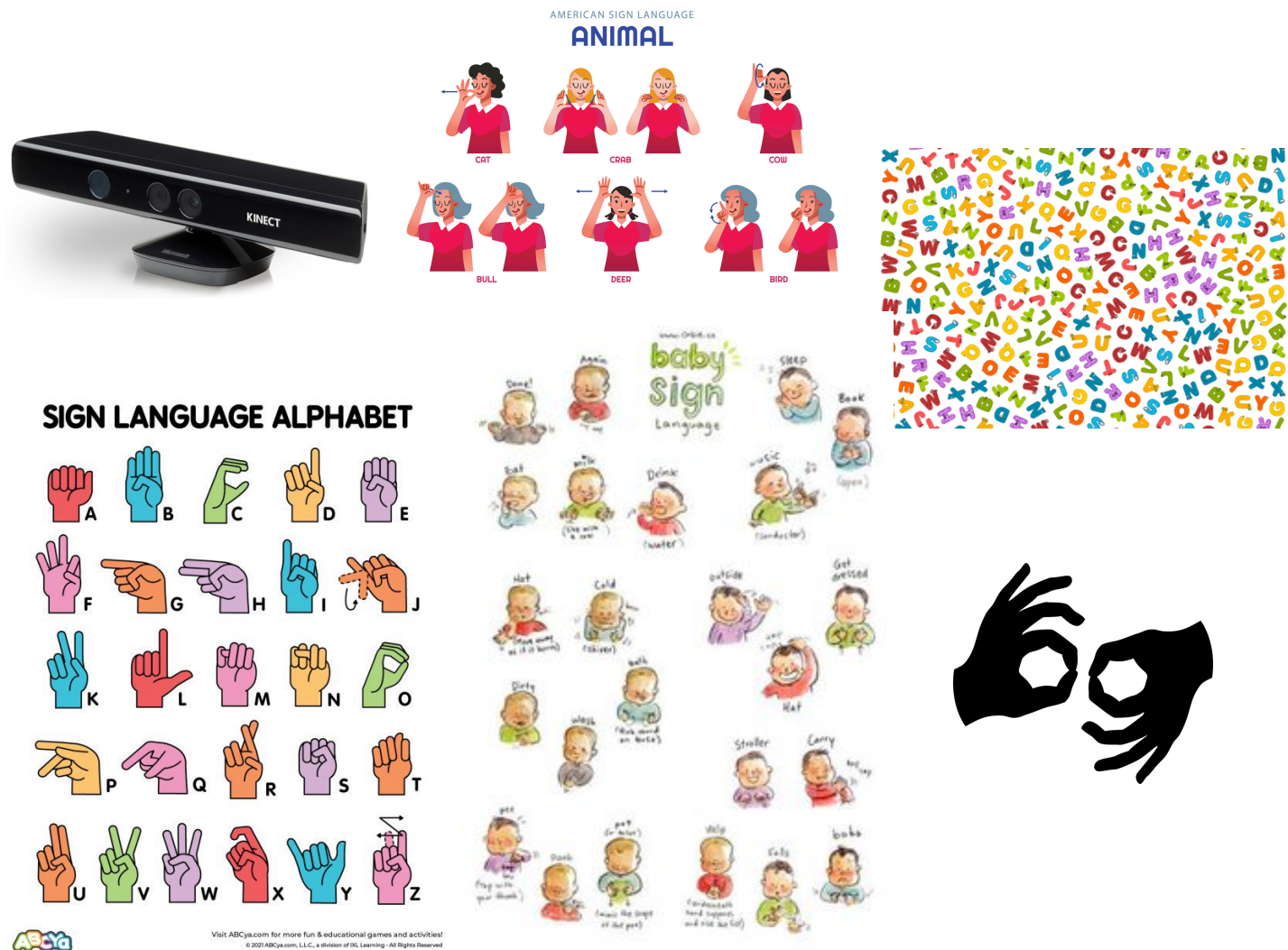
Main Features

- **PRINCIPAL MAIN VERY IMPORTANT FEATURE:**
 - Translation of Romanian sign movements into text
- **Other features:**
 - (?) the user can choose the font/colour/size text
 - (?) an avatar mirroring the signs

User Journey Diagram - Step by step flow through app



MoodBoard (10+ images)



Technologies, Libraries, Assets - Links

(>=5)

1. .Net framework 4.2.7
2. Microsoft SDK v1.8
3. EmguCV
4. Kinect 360
5. (?) Handmade asset/avatar