iGest Recognito

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Overview

- iGest Recognito' stands for 'Intelligent Gesture Recognition'.
- An android application to create a communication media in sign language.
- Includes an American Sign Language Keyboard and a media player with American Sign Language (ASL) subtitle feature.
- incorporates an alphabetical gesture pattern recognition feature.

Application

- According to statistics, Approx. 1 million people of the world are said to be born deaf as well as mute
- iGestRecognito We develop an Mobile App which incorporates Sign Language as a communication tools for the people with hearing and talking disability.

Modes

LET'S GO!!

- Mode for Normal the related features American Sign Language
- Communication Mode is the chatting option for the users of this application



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Menu

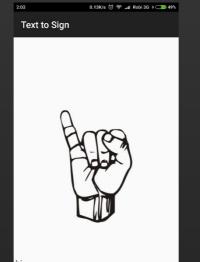
- Manifests the features
- Features create platform of processing Natural Language in Sign Language form to Alphabetic Text form.



Sign Subtitle

- Media Player with File Selector for Video File and Subtitle file
- Includes Subtitle in American Sign Language

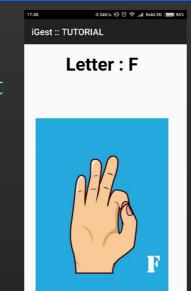




Sign Subtitle

<u>Text to Sign</u>

- Takes alphabetic text input
- Converts into American Sign Language



iGest :: VOICE RECOGNITION

Sign Tutorial

- Sign Language is a great tool for communicating with disable persons
- iGest Tutorial facilitate the user to learn American Sign Language

<u>iGest</u> **Keyboard** recognition Keyboard with American Sign definately Language layout

iVoice

- Voice Recognition using Google Voice API
- Converts voice input into corresponding alphabetic text and sign



Future Plans

- Survey the feasibility of the proposed approaches with real users.
- Make it more user friendly.
- Add a feature of real time hand gesture detection, which will help easy live communication between disabled and enabled people.

iGest :: LOG IN Log In LOG IN Click Here to Register

<u>iGesture</u>

- Takes input from the drawn pattern in the screen
- Converts it into corresponding Alphabetic Text
- Prediction done using Gesture Builder ML

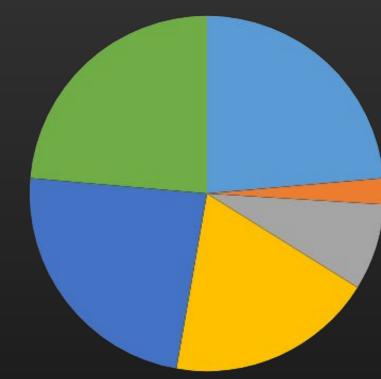
Mode • Chatting with other users of

Communication

- this Application
- Sign-Up and Log-In done using FIrebase

Motivation

- We have thought of developing a project with Natural Language Processing (NLP) feature.
- Sign Language Processing is one of the field of our interest because it reveals an opportunity to work with text to sign language conversion and vice-versa.



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