

Basic Details of the Team and Problem Statement

Ministry/Organization Name: Department of Empowerment of Persons with Disabilities (Divyangjan),

Ministry of Social Justice and Empowerment

PS Code : RK758

Problem Statement Title: Enabling Communication Strategies For Persons With Hearing Impairment

Team Name : We Hear You

Team Leader Name : Renuka Ramdas Magar

Institute Code : 1-15937511

Institute Name : Mahatma Gandhi Mission's College Of Engineering , Nanded

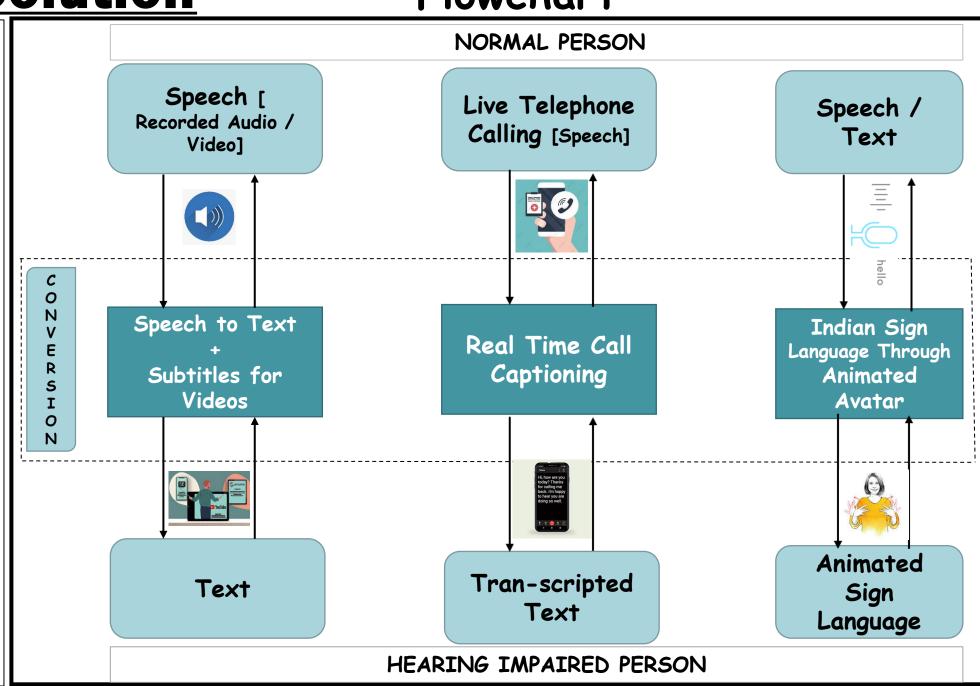
Theme Name : Smart Education

Our Solution

Flowchart

DESCRIPTION:

We are going to develop an android application which will perform open and close captioning in videos, real time call captioning over a phone line and Indian sign **Language animated** model. This application will be a solution for communication with **Persons having Hearing** Impairment ...!



Further Details

Technology Stack:

Front End:



Software (IDE):





Back End:











Dependencies:

- ➤ Our mobile app depends on the support provided by the government to spread awareness about this application and advantages.
- Microphone, Media / Storage, Manage Calls permissions needs to be accessed throughout the devices.

Use Cases:

Independence in communication:

It will help to remove the barriers in communication between normal humans and a deaf persons.

- ✓ Our application's end user can be Deaf and Dumb people as well as a normal person.
- ✓ If a normal person is speaking to a deaf person who is talking in sign language so he can use our application's feature of sign language to text convertor.

Features:

- ✓ Convert speech to text .
- ✓ Provides real-time call to text.
- Provides Subtitles for videos .
- In live video call, Convert text / audio to animated sign language Vice versa.
- ✓ Provides facility to send text messages on telephone

Link Of work done till now:

https://github.com/WeHearYou

Team Member Details

Team Leader Name : Renuka Ramdas Magar

Branch: BTech Stream: ETC Year: III

Team Member 1 Name: Sambodhi Sunil Dhanajkar

Branch: BTech Stream: ETC Year: III

Team Member 2 Name: Prerna Baban Lokade

Branch: BTech Stream: ETC Year: III

Team Member 3 Name: Pornima Digambar Bamne

Branch: BTech Stream: ETC Year: III

Team Member 4 Name: Martand Maheshrao Pangrekar

Branch: BTech Stream: ETC Year: III

Team Member 5 Name: Purushottamsingh Rajpalsingh Jakrewale

Branch: BTech Stream: ETC Year: III

Team Mentor 1 Name: Mr. D. J. Tuptewar

Category: Academic Expertise: Image Processing Domain Experience (in years): 10

VLSI Embedded System

Team Mentor 2 Name: Mrs. S. S. Joshi

Category: Industry Expertise: Python Development Domain Experience (years): 6