REAL-TIME COMMUNICATION SYSTEM POWERED BY AI FOR SPECIALLY ABLED

TIP
As you add steps to the experience, move each these "Five Es" the left or right depending on the scenario you are documenting.

SCENARIO
Browsing, Recognizing and Translating to a communicate with people

Entice
How does someone initially become aware of this process?

Enter
What do people experience as they begin the process?

Engage
In the core moments in the process, what happens?

Exit
What do people typically experience as the process finishes?

Extend
What happens after the experience is over?

Steps
What does the person (or group) typically experience?

- **Communication with Normal people** — Communications between deaf-mute and a normal person has always been a challenging task
- **Communication with Deaf people** — Voice Conversion System will be useful to have a proper conversation
- **Communication with Dumb people** — It is difficult mute people to convey their message to normal people
- **Visit Apps** — This app enables deaf and dumb people to convey their information using signs
- **Open the Application** — App enables deaf and dumb people to convey their information easily and efficiently
- **Allow Camera access** — Hand Gesture Recognition and translation will be done
- **Record the Sign language** — Hand gestures are used as sign language
- **Text and Voice are executed** — Converted the sign language is changed into human hearing voice in the desired language
- **Application** — An Application enables to convey their information easily and efficiently
- **Recognition of Sign language and Voice** — Voice Conversion System with Hand Gesture Recognition and translation is used for proper conversation
- **Experience the communication** — A proper conversation between a normal person and specially abled person in any language
- **Communication is all done** — People to convey their information using signs which get converted to human-understandable language
- **Report** — The customer writes review on the application to update or for bug issue
- **Easy and Efficient Communication is done** — Through an application, it is very easy and efficiently for usage
- **Learned about Hand gestures and Signs** — Normal people are trained on hand sign language and aware on it

Interactions
What interactions do they have at each step along the way?

- **People:** Who do they see or talk to?
- **Places:** Where are they?
- **Things:** What digital touchpoints or physical objects would they use?

- The human hand are used has a popular choice to convey information
- Sign language into a human hearing voice, as well as convert speech into sign language
- A proper conversation between a normal person and an impaired person in any language
- Access the application at anywhere & anytime
- Real-time communication on application by use of browser
- See different version of application
- Will be very useful to have a proper conversation
- Hand gestures are used for communication
- Text to speech and speech to text
- Interaction with people about real-time communication
- Now, people can look into the application and understand it
- Reviews are written in the profile of the application
- Gain the knowledge based on sign language
- Recommend other users to interact with the people
- Recommend to use the application to access the information of sign languages

Goals & motivations
At each step, what is a person's primary goal or motivation? ("Help me..." or "Help me avoid...")

- To decrease the effect of loneliness
- To get the effective communication in an application
- To be aware of hand signs and languages
- Firstly, we have enter into the application
- To recognise and translate the sign language in the application
- Signs, which get converted to human-understandable language and speech
- To have accurate constraint on communication
- To recognise and translate voice and hand gestures
- Leave with satisfaction after existing the application
- Application can be shared with others to be aware about sign language
- Feedback review can be able to do updates in the application

Positive moments
What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?

- Get the easy and effective communication
- Know the condition of people of deaf/dumb for various purposes
- Doing the experiment to get the effective communication
- We know the people condition and aware of signs
- Real-time communication rate
- Good communication between the people and specially abled
- Information about sign language helps people to communicate
- Friendly user application easy to use and understand
- Solves the people's problems immediately

Negative moments
What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming?

- No significant developments are undertaken for the betterment of deaf/dumb
- Communication between deaf & dumb and a normal person has always been a challenging task
- It is difficult for dumb people to convey their message to normal people
- Normal people are not trained on hand sign language
- In emergency times conveying message is very difficult
- Conveying information in situations where other forms like speech cannot be used
- Processing may be delayed
- Operation and maintenance of the application by specially abled might be difficult

Areas of opportunity
How might we make each step better? What ideas do we have? What have others suggested?

- The processing and updating speed is increased
- It can be economically
- Get the speech or text in time with the application
- To recognise and translate the hand gestures accurately
- An application is built which uses this model
- From these normal people are aware and trained on hand sign language