















## REAL-TIME COMMUNICATION SYSTEM POWERED BY AI FOR SPECIALLY ABLED

<div><b>SCENARIOS</b> Browsing, Recognizing and Translating to a communicate with people</div>	<div><b>Entice</b> How does someone initially become aware of this process?</div>	<div><b>Enter</b> What do people experience as they begin the process?</div>	<div><b>Engage</b> In the core moments in the process, what happens?</div>	<div><b>Exit</b> What do people typically experience as the process finishes?</div>	<div><b>Extend</b> What happens after the experience is over?</div>
<div><b>Steps</b> What does the person (or group) typically experience?</div>	<div><b>Communication with Normal people</b> Communication between deaf and normal people are not always easy and understanding each other is challenging task.</div> <div><b>Communication with Deaf people</b> Voice Conversion System will be useful to have a proper conversation.</div> <div><b>Communication with Dumb people</b> It is difficult to make people to convey their message to normal people.</div> <div><b>Visit Apps</b> This app enables deaf and dumb people to convey their information easily and efficiently.</div>	<div><b>Open the Application</b> App enables deaf and dumb people to convey their information easily and efficiently.</div> <div><b>Allow Camera access</b> Hand Gesture Recognition and translation will be done.</div> <div><b>Record the Sign language</b> Hand gestures are used as sign language.</div> <div><b>Text and Voice are executed</b> Converted the sign language to speech and vice versa making voice in the desired language.</div>	<div><b>Application</b> An Application enables to convey their information easily and efficiently.</div> <div><b>Recognition of Sign language and Voice</b> Voice Conversion System with Hand Gesture Recognition and translation is done for proper conversation.</div> <div><b>Experience the communication</b> A proper conversation between normal people and specially abled people is made.</div>	<div><b>Communication is all done</b> People to convey their information easily with our conversion system and understand sign language.</div> <div><b>Report</b> The customer writes a review on the app when it is suitable or for bug issue.</div>	<div><b>Easy and Efficient Communication is done</b> Through an application, it is very easy and efficiently for usage.</div> <div><b>Learned about Hand gestures and Signs</b> Normal people are trained on hand sign language and aware on it.</div>
<div><b>Interactions</b> What interactions do they have at each step along the way?  » <b>People:</b> Who do they see or talk to? » <b>Places:</b> Where are they? » <b>Things:</b> What digital touchpoints or physical objects would they use?</div>	<div>The human hand are used has a popular choice to convey information.</div> <div>Sign language into a handwritten system and it is often called the sign language.</div> <div>A proper conversation between normal people and a specially abled person is easy language.</div> <div>Access the application at anywhere &amp; anytime.</div> <div>Real-time communication on application by use of browser.</div>	<div>See different version of application.</div> <div>Will be very useful to have a proper conversation.</div> <div>Hand gestures are used for communication.</div> <div>Text to speech and speech to text.</div>	<div>Interaction with people about real-time communication.</div> <div>Now, people can look into the application and understand it.</div>	<div>Reviews are written in the profile of the application.</div> <div>Gain the knowledge based on sign language.</div>	<div>Recommend other users to interact with the people.</div> <div>Recommended to use the application to access the information of sign language.</div>
<div><b>Goals &amp; motivations</b> At each step, what is a person's primary goal or motivation? ("Help me..." or "Help me avoid...")</div>	<div>To decrease the effect of loneliness.</div> <div>To get the effective communication in an application.</div> <div>To be aware of hand signs and languages.</div>	<div>Firstly, we have enter into the application.</div> <div>To recognise and transcribe the sign language in the application.</div> <div>Signs which get converted to human-understandable language and speech.</div>	<div>To have accurate conversation on communication.</div> <div>To recognise and transcribe voice and hand gestures.</div>	<div>Leave with satisfaction after visiting the application.</div>	<div>Application can be shared with others to be aware about sign language.</div> <div>Feedback review can be able to do updates in the application.</div>
<div><b>Positive moments</b> What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?</div>	<div>Get the easy and effective communication.</div> <div>Know the condition of people of their signs for various purposes.</div>	<div>Doing the experiment to get the effective communication.</div> <div>We know the people condition and aware of signs.</div>	<div>Real-time communication rate.</div> <div>Good communication between the people and specially abled.</div>	<div>Information about sign language helps people to communicate.</div>	<div>Friendly user application easy to use and understand.</div> <div>Solves the people's problems immediately.</div>
<div><b>Negative moments</b> What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming?</div>	<div>We capture developers are confused to the system of our dumb.</div> <div>Communication between deaf &amp; dumb and a normal person has always been a challenging task.</div> <div>It is difficult for dumb people to convey their message to normal people.</div>	<div>Normal people are not trained on hand sign language.</div>	<div>In emergency times conveying message is very difficult.</div> <div>Conveying information when there is no speech cannot be used.</div>	<div>Processing may be delayed.</div>	<div>Operation and maintenance of the application is very difficult.</div>
<div><b>Areas of opportunity</b> How might we make each step better? What ideas do we have? What have others suggested?</div>	<div>The processing and updating speed is increased.</div> <div>It can be economically.</div>	<div>Get the speech or text in time with the application.</div>	<div>To recognise and transcribe the hand gestures accurately.</div>	<div>An application is built which uses this model.</div>	<div>From these normal people are aware and trained on hand sign language.</div>