

Date	23 September 2022
Team ID	PNT2022TMID41505
Project Name	Project - Real-Time CommunicationSystem Powered by AI for Specially Abled
Maximum Marks	2 Marks

Define CS, fit into CC	<b>1. CUSTOMER SEGMENT(S)</b> <span>CS</span> <ul style="list-style-type: none"> <li>- Specially-abled people</li> <li>- Teachers</li> <li>- Family</li> <li>- Colleagues</li> <li>- Friends</li> </ul>	<b>6. CUSTOMER CONSTRAINTS</b> <span>CC</span> <ul style="list-style-type: none"> <li>- Network issues.</li> <li>- Limited choice of sign language.</li> <li>- Users should be technologically sound.</li> </ul>	<b>5. AVAILABLE SOLUTIONS</b> <span>AS</span> <ul style="list-style-type: none"> <li>- Learning sign language.</li> <li>- Interpretation using Hardware components like smart gloves and finger-caps.</li> <li>- Assistive technologies (applications).</li> <li>- ASL based sign interpreters.</li> <li>- Cochlear implants</li> <li>- Teletypewriters(TTY), Telecommunications Device for the Deaf(TDD) and Text Telephones(TT).</li> </ul>	Explore AS, differentiate
	<b>2. JOBS-TO-BE-DONE / PROBLEMS</b> <span>J&amp;P</span> <ul style="list-style-type: none"> <li>- There is a need to develop a system to convert sign language to speech and vice versa.</li> <li>- There should be an application to convey the information.</li> </ul>	<b>9. PROBLEM ROOT CAUSE</b> <span>RC</span> <ul style="list-style-type: none"> <li>- Everyone does not know the sign language.</li> <li>- Inability to communicate normally and effectively.</li> <li>- Improper interpretation.</li> </ul>	<b>7. BEHAVIOUR</b> <span>BE</span> <ul style="list-style-type: none"> <li>- Text usage to convey information.</li> <li>- Use of understandable signs.</li> <li>- Lip reading.</li> </ul>	
<b>3. TRIGGERS</b> <span>TR</span> <ul style="list-style-type: none"> <li>- Seeing people being bullied and isolated.</li> <li>- Inability to convey their thoughts during emergencies.</li> <li>- Frustration upon missing opportunities.</li> <li>- Wish to lead a normal life.</li> </ul>	<b>10. YOUR SOLUTION</b> <span>SL</span> <p>The project deals with building an application which helps the specially challenged people to communicate between them and the common people. This application tries to reduce the barrier of communication by developing an assistive application for specially challenged people.</p>	<b>8. CHANNELS of BEHAVIOR</b> <span>CH</span> <p><b>8.1 ONLINE</b> Video calls for distant communication involving either sign language or lip reading.</p> <p><b>8.2 OFFLINE</b> Dependent on a person for communication assistance.</p>	Identify strong TR & EM	
<b>4. EMOTIONS: BEFORE / AFTER</b> <span>EM</span> <p><b>Before</b></p> <ul style="list-style-type: none"> <li>- Socially secluded</li> <li>- Dependent</li> <li>- Hurt</li> </ul> <p><b>After</b></p> <ul style="list-style-type: none"> <li>- Feel equal</li> <li>- Confident</li> <li>- Relieved</li> </ul>				