

**Ideation Phase**  
**Brainstorm & Idea Prioritization**

Date	16 OCTOBER 2022
Team ID	PNT2022TMID14098
Project Name	Real-Time Communication System Powered by AI for Specially Abled
Maximum Marks	4 Marks

**Step-1: Team Gathering, Collaboration and Select the Problem Statement**

**Our team were discussed about the problem statement and defined it**

**PROBLEM STATEMENT**

**Now a days  
there are many peoples living  
with the disabilities of hearing  
and vocal. Communicating with  
normal people becomes a  
challenging task to them.  
This problem statement is to help  
the deaf and dumb person to  
communicate with  
normal people using AI.**

## Step-2: Brainstorm, Idea Listing and Grouping

<b>BALAJI V M</b>  <div>Differently abled person can be very helpful by showing hand gestures</div> <div>Developing more accurated image processing of hand gestures and facial expression</div> <div>Train the dataset using convoluted neural network to get the most accurate result</div> <div>a best use of tensorflow to recognize image, audio and video</div>	<b>DHARUNKUMAR S</b>  <div>Instead of training the predefined dataset, train the real time images of hand gestures taken live by the dumb and deaf peoples</div> <div>A study on manual sign involves the face region involving eye blinking,eyebrow movement. This can be traced and interpreted to show the communicaton</div> <div>The keyboard for the deaf feature can support the sign language images and symbols in the keyboard as a different feature to convert between the normal and deaf people</div> <div>A video created to instructions to tell about the details of the some needs using sign language which help to understand something about the deaf people need</div>
<b>GOKULAVANAN P</b>  <div>Building the best flask application which will be easily used by dumb and deaf people</div> <div>A manual to make the best use of application</div> <div>CNN performs training and verification of the recognized gestures.</div> <div>High quality web cam is used to capture the hand movement and provide as input to tensorflow object detector</div>	<b>KARTHICK S</b>  <div>if the hand gestures were recognized then the text and audio is generated</div> <div>a focused web camera should be used for working with a proper distance</div> <div>providing a flash light to work camera under low light condition</div> <div>software for speech recognition should be developed</div>

### 3. IDEA PRIORITIZATION

