**Ideation Phase**

**Proposed Solution Template**

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| Date | 18 October2022 |
| Team ID | PNT2022TMID43796 |
| Project Name | Real-Time Communication System Powered by AI for Specially Abled |
| Maximum Marks | 2 Marks |

**Proposed Solution :**

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| **S. No** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | The main problem that this article will address is the development of an artificial intelligence voice-based smart device that can evaluate the impairment of deaf individuals to recognize and respond to their body language. An analysis of data from Smart Audio Report indicates that smart speaker have outpaced the use of smartphones and table in country. |
|  | Idea / Solution description | This paper shows how artificial intelligence is being used to help people who are unable to do what most people do in their everyday lives. Aligned with communication, D-talk is a system that people who are unable to talk and hear be fully understood and for them to learn their language easier and also for people that would interact and communicate with them. |
|  | Novelty / Uniqueness | This application can provide a helpful tool for communication between the deaf This and the external world. The sign language recognition program, which is required to understand sign language, has been studied extensively for year[25,27]. The studies are focused on various input sensors, gesture segmentation, feature extraction, and classification methods. |
|  | Social Impact / Customer Satisfaction | This project is an application for PCs is very useful because it has its signs which consider as easy and understand signs, they are not complex as regular sign language signs. It use machine learning model accuracy in figuring out which model is best at distinguishing connection and example between factors in a dataset dependent on the information, or preparing, information. |
|  | Business Model (Revenue Model) | Human resource department will almost certainly be controlled by AI and voice command. For those who utilize this technology, it has the potential to decrease marginalization and enhance independent while also providing them with educational, financial, and social possibilities. This break through will pave the ways for new technologies trends, particular in the areas of applications, integration in the medical sector, education, robotic, and other disciplines. This will be a components of the integration of AI with economic growth in general. |
|  | Scalability of the Solution | This research allows the readers to learn the system and what it can do to people who are struggling with what they are not capable of and will provider the technical terms on how the system works. In a nutshell, the development of technology is essential, and its deployment in sign language is high critical. It will sever to bring efficiency in communication, not only the deaf and dumb but those with the ability to hear and speak as well. |