**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 23 September 2022 |
| Team ID | PNT2022TMID06858 |
| Project Name | Project – Real time communication system powered by AI for specially abled. |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | * To develop a system that converts the sign language into a human hearing voice in the desired language to convey a message to normal people, as well as convert speech into understandable sign language for the deaf and dumb. |
|  | Idea / Solution description | * The technology is developing day by day but no significant developments are undertaken for the betterment of these people. Communication between deaf-mute and a normal person has always been a challenging task. * We are making use of a convolution neural network to create a model that is trained on different hand gestures. An app is built which uses this model. * This app enables deaf and dumb people to convey their information using signs which get converted to human-understandable language and speech is given as output. |
| * x | Novelty / Uniqueness | * Cost effective. * Reduces delay between gesture recognition. * Provides a technique for dumb people using text to voice conversion. |
|  | Social Impact / Customer Satisfaction | * This project is helpful in providing a great solution for many deaf and dumb persons . * This helps the specially abled people to maintain a life balance with others. |
|  | Business Model (Revenue Model) | * Helps the companies in project scheduling. * Usable by many differently abled which increases revenue. |
|  | Scalability of the Solution | * Made available for many specially abled people. * Dataset can be updated according to future needs. |