Project Design Phase-I Proposed Solution Template

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| Date | 11 October 2022 |
| Team ID | PNT2022TMID54147 |
| Project Name | 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** |
| 1. | Problem Statement (Problem to be solved) | Conversation between deaf-mute people and normal people is a very challenging task. It is most difficult to communicate  during the emergency period. |
| 2. | Idea / Solution description | * To design and implement a system using artificial intelligence, Data mining and image processing concepts to take input as hand gestures. * Hand gestures is converted as the voice message and convert the voice system into hand gestures are the technique useful for the conversation between deaf-mute people and normal people. |
| 3. | Novelty / Uniqueness | By using a convolution neural network to create a model that is recoganise on different handgestures,voice and an app is built for the use of this mode.   * Artificial Intelligence developed the app called handtalk that uses neural networks andcomputer vision. * Hand Talk app automatically translates text and audio to American Sign Language (ASL) [Beta] and Brazilian Sign Language. * It recognizes the video of sign language and then converted into voice by the smart   algorithms . |
| 4. | Social Impact / Customer Satisfaction | * The main purpose of this application is to make the deaf-mute people to easy communicate like normal people and they avoid hesitation to talk freely. * About quater of the people with a disability are most of them experience a   great difficulty with day to day activities. |

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| 5. | Business Model (Revenue Model) | * By using the AI the specially abled people can work any job.They can revenue from their customer. * Business to Business (B2B) uses to work   deaf and muteemployees can convey the message directly according to the company. |

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| 6. | Scalability of the Solution | * Enhanceing the deaf-mute people with their disabilities to step into aworld where they facing difficulties for the communication. * The AI technology helps specially abled people to open up their knowledges and enhance the opportunities in society and independent living. * This technology gives hope to the   specially abled people to survive in the world. |