**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 24 September 2022 |
| Team ID | PNT2022TMID42258 |
| Project Name | Project – REAL TIME COMMUNICATION POWERED BY AI FOR SPECIALLY ABLED |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

The project team shall fill in the following information in the proposed solution template.

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | **How might we design and implement the system to overcome the communication barrier between normal people and speech-hearing impaired people?** |
|  | Idea / Solution description | **The project aims to develop a system that converts 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. We are making use of a convolution neural network to create a model that is trained on different hand gestures.** |
|  | **Novelty / Uniqueness** | * **Enables Two-Way Communication System** * **Accurate Hand Gesture Recognition** * **Retrieval of High-Quality Audio** * **Multilingual system** * **Auto Updation** * **Disabled People get Benefited on a Major Scale** * **Learning Sign Language is not Necessary** |
|  | **Social Impact / Customer Satisfaction** | * **Specially Abled People cannot be felt Underrated** * **Easily Accessible by Young and Adults** * **Breaks Inferior Complexity among the Society** * **Portable System** * **Cost Efficient** * **Live Communication** * **Communication Without Delay** |
|  | **Business Model (Revenue Model)** | **Based on the Popularity of the Application, the number of users gets increased so that Marketing profit can also be Increased.** |
|  | **Scalability of the Solution** | **Based on several users who need the service mostly get benefited from this application.**  **This project can be expandable to reach more people which broadens the effectiveness for the users.** |