**PROJECT DESIGN PHASE-1**

**PROPOSED SOLUTION TEMPLATE**

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| **DATE** | 27 September 2022 |
| **TEAM ID** | PNT2022TMID07105 |
| **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** |
| **1.** | Problem Statement (Problem to be solved) | The research focuses on real-time communication over non-real-time technologies that have so far been concentrated on multimedia and similar applications. However, there is also large need for research efforts in the field of industrial systems. |
| **2.** | Idea / Solution description | All digital platforms rely on accurate and timely delivery of data. Therefore the core of the Real-Time Communication System is an engine that ensures rich data sets in real-time, controllability of individual sensor settings, compression of data, error checking, message traceability and retransmission of lost data. |
| **3.** | Novelty / Uniqueness | We use a convolution neural network to build a model trained on different hand gestures. An application has been developed that uses this model. The app enables deaf and hard of hearing people to communicate their information using signs that are converted into human understandable language and given as speech output. |
| **4.** | Social Impact / Customer Satisfaction | The main purpose of this application is to make deaf-mute people feel independent and more confident.  To reduce the thought of discrimination of people in their mind. |
| **5.** | Business Model (Revenue Model) | Can generate revenue through direct customers and collaborate with health care sector and generate revenue from their customers. |
| **6.** | Scalability of the Solution | When people with disabilities face certain problems, the problems can be solved easily through real-time communication. |