**PROJECT DESIGN PHASE-II**

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| Date | 19 October 2022 |
| Team ID | PNT2022TMID43796 |
| Project Name | Real-Time Communication System Powered by AI for Specially Abled |
| Maximum Marks | 4 marks |

**FUNCTIONAL REQUIREMENT**

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| **REQUIREMENTS** | **FUNCTIONAL REQUIREMENTS** |
| Objective | Most people communicate efficiently without any issues, but many cannot due to disability. |
| focus | The hand gesture recognition system consists of three major parts: palm detection, hand tracking, and trajectory recognition. |
| Documentation | In Ideation phase |
| End case | This aimed at evaluating and comparing the methods used in the sign recognition systems, classification methods used and identifies the most promising approach for this project. |
| Essentially | Web camera is essential for capturing image. |
| Origin type | Artificial intelligence that was being developed can identify errors on hand gesture matches and will stop as a default. It will generate corresponding gestures that allow every user to read and be able to understand what the gesture means. |
| Testing | Feature extraction depends on the application. On D-talk, finger status, skin color, alignments of the finger, and the palm position are taken into consideration. After features extracted, they sent to training and testing classification algorithms to reach the output. |