

Project Design Phase-I
Proposed Solution Template

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID47801 |
| Project Name | Project – Real Time Communication System Powered by AI For Specially Abled |
| Maximum Marks | 2 Marks |

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

| S.No. | Parameter | Description |
|-------|--|--|
| 1. | Problem Statement (Problem to be solved) | <ul style="list-style-type: none">• Everyone is not convenient with language used in the application• Some people cannot understand English we can convert into their convenient language• They are facing difficulties in understanding the language used in the system |
| 2. | Idea / Solution description | <ul style="list-style-type: none">• Even sign language can also be translated to text message in our application using CNN.• Text to sign language convertor uses Stanford Parser text processing and JASigning for the signing avatar• Can change the language using google language translator tool so that people can use the application based on their specialised language• Producing a model which can recognize Finger-spelling based hand gestures in order to form a complete word by combining each gesture• By using this application both specially abled and normal people can translate their messages to others easily |

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| 3. | Novelty / Uniqueness | <ul style="list-style-type: none"> • Convenient language can be changed using the google language translator tool • Normal text can also be translated into sign language |
| 4. | Social Impact / Customer Satisfaction | <ul style="list-style-type: none"> • The Main aim of the project is to build an application that helps the specially abled people to communicate with others easily • The deaf and dum people can easily translate their sign language into a human hearing voice • The normal people can also easily translate their voice into a sign language using this application |
| 5. | Business Model (Revenue Model) | <ul style="list-style-type: none"> • We can generate revenue by offering subscription-based applications to the people • Users who have got subscription can change the language accordingly |
| 6. | Scalability of the Solution | <ul style="list-style-type: none"> • Even if the number of users increase the system will perform well • Need to pay attention to the application and to be responsive to the changes as fast as possible |