

**Project Design Phase-I**  
**Proposed Solution Template**

Team ID	PNT2022TMID44336
Project Name	Project – Real Time Communication System Powered by AI For Specially Abled

**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"><li>• Everyone is not convenient with language used in the application</li><li>• Some people cannot understand English we can convert into their convenient language</li><li>• They are facing difficulties in understanding the language used in the system</li></ul>
2.	Idea / Solution description	<ul style="list-style-type: none"><li>• Even sign language can also be translated to text message in our application using CNN.</li><li>• Text to sign language convertor uses Stanford Parser text processing and JASigning for the signing avatar</li><li>• Can change the language using google language translator tool so that people can use the application based on their specialised language</li><li>• Producing a model which can recognize Finger-spelling based hand gestures in order to form a complete word by combining each gesture</li><li>• By using this application both specially abled and normal people can translate their messages to others easily</li></ul>

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