

Project Design Phase-I
Solution Architecture

Date	13 October 2022
Team ID	PNT2022TMID42383
Project Name	Project - Solution Architecture- Real-Time Communication System Powered By AI For Specially Abled
Maximum Marks	4 Marks

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Discourse and Language Handling is fundamentally worried about the transformation of Discourse to-Text and Text-to-Discourse.
- Text-to-Discourse programming blends composed normal language into a sound result, in straightforward terms it utilizes Regular Language Handling (NLP) innovation to peruse composed text.
- Then again, Discourse to-Text programming does likewise process yet the opposite way around, it combines communicated in language and cycles it into composed normal language utilizing NLP innovation.
- Such programming is many times consolidated in the plans of voice collaborators, programmed discourse acknowledgment (ASR) motors and discourse logical devices.
- Applications that utilization Discourse and Language Handling innovation should have the option to ideal believer and move messages.
- Time, message move and constant show of composed message are a portion of the significant difficulties of switching discourse over completely to message continuously .
- Moment discourse to-message change plans to integrate communicated in language into composed message almost simultaneously.
- This is vital as it would empower individuals living with hearing-impedances to partake in discussions as they would have regularly finished in the event that they were not encountering any conference issues.
- This would empower their discussions to be more captivating as they don't feel like they delayed down interest as a result of getting some margin to handle explanations.

Example - Solution Architecture Diagram:

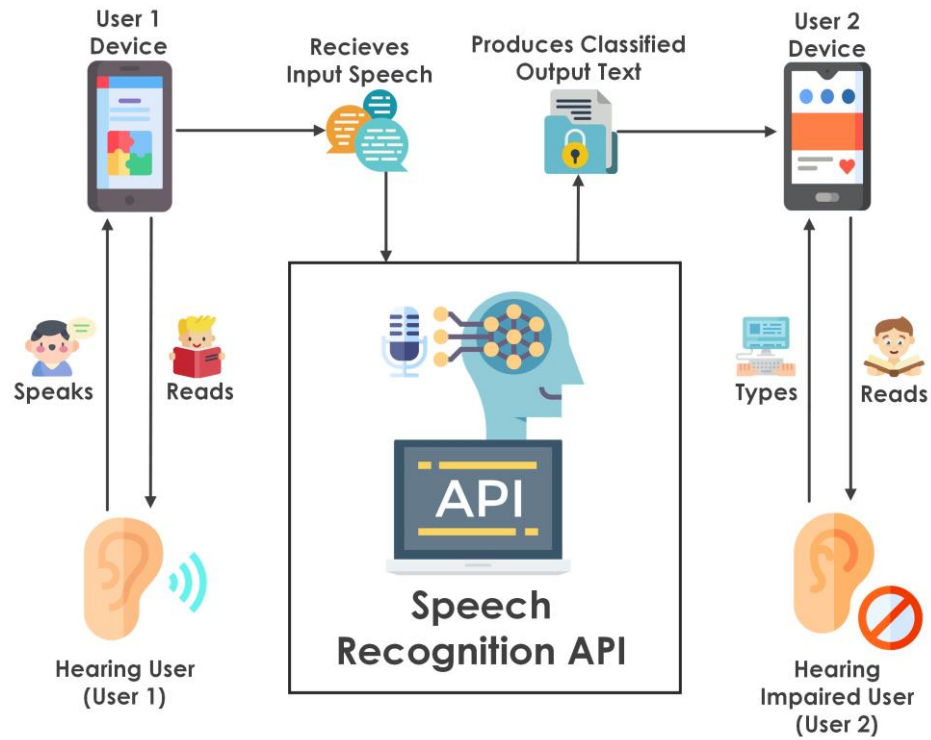


Figure 1: Architecture and data flow of the voice patient diary sample application