

Project Design Phase-II Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID10160
Project Name	Project – Real Time Communication System Powered by AI for Specially Abled
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

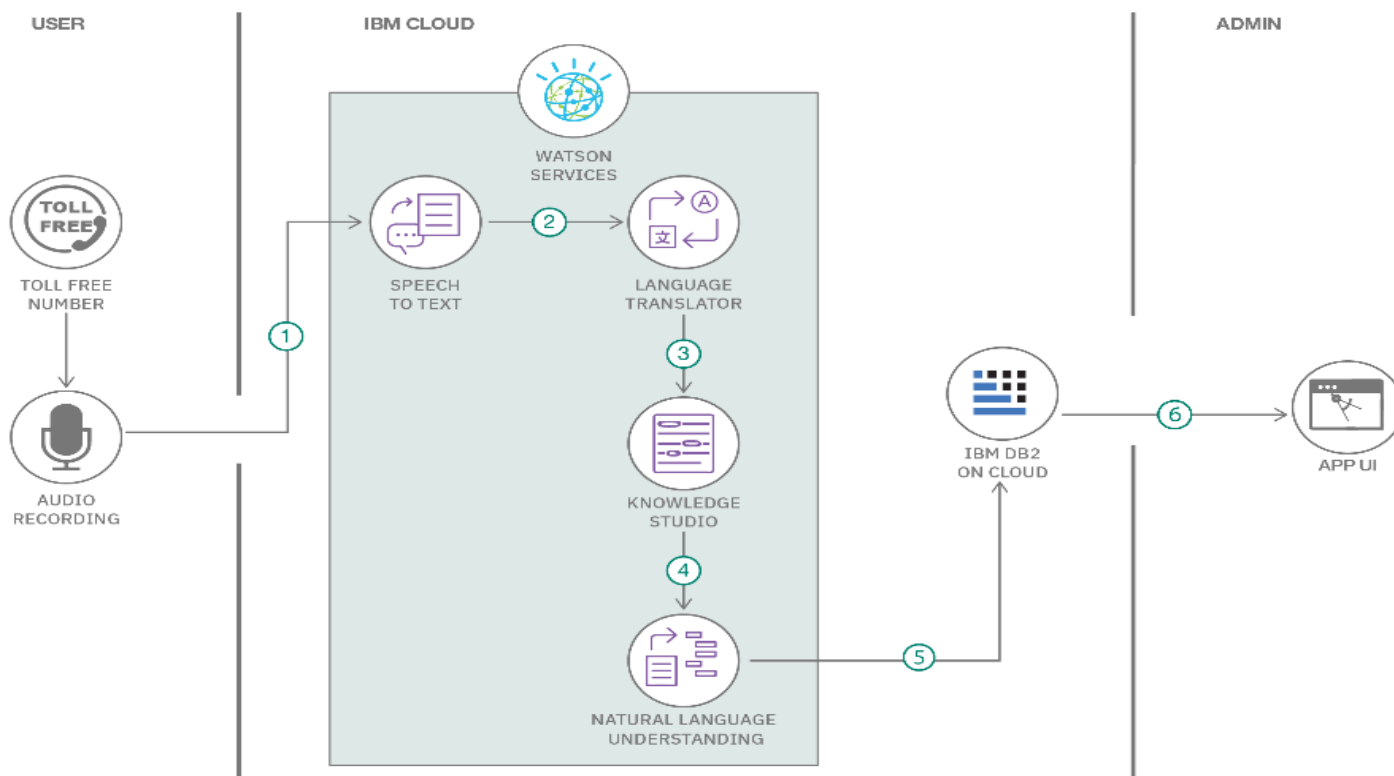


Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS and JavaScript
2.	Application Logic	Logic for a process in the application	Python
3.	File Storage	File storage requirements	Local Filesystem
4.	Machine Learning Model	Purpose of Machine Learning Model	Communication
5.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud	Local, IBM cloud

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Tensorflow, keras and CNN
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	AVS Firewall Security, SIEM
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	HTML and CSS implementation
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	

S.No	Characteristics	Description	Technology
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Cookies and cache implementation