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

Date	13 November 2022		
Team I D	PNT2022TM D31200		
Project Name	Real time communication system powered by AI for specially disabled		
Maximum Marks	4 Marks		

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as perthe table 1 & table 2

Example: Real time communication system powered by AI for specially disabled

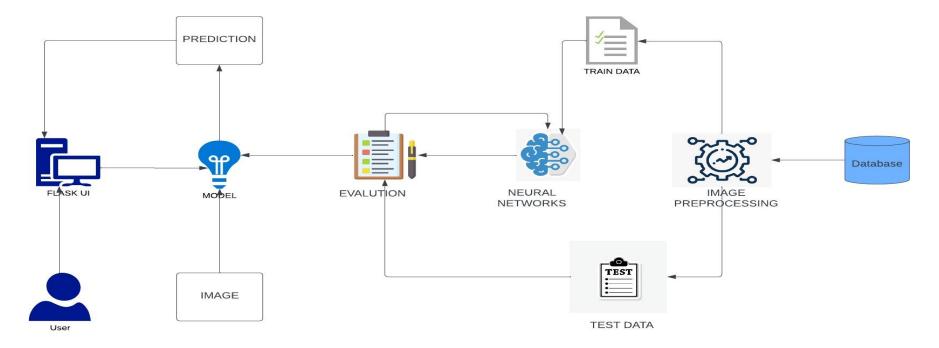


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User I nterface	The user interface is the point of human composite interaction and communication in device	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Converting speech into sign language	Java /Python
3.	Application Logic-2	Converting to signlanguage to speech	I BMWatson STT service
4.	Application Logic-3	Converting to speechto readable content	I BMWatson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, Rational database etc.
6.	Cloud Database	Database Service on Cloud	I BMDB2, I BMCloudant etc.
7.	File Storage	Methodology used to organize and store data or computer hard drive	I BM Block Storage or Other Storage Service or Local Filesystem
8.	External API	Defines communication between normal people and deafpeople	I BMW eather API ,etc.
9.	Machine Learning Model	Training	Object Recognition Model, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource framework
2.	Security I mplementations	List all the security / access controls implemented, useof firewalls etc.	e.g. SHA256, Encryptions, I AM Controls, OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture –(3 tier, Mcro -services)	Devops
4.	Availability	Justify the availability ofapplication (e.g. use of load balancers, distributed serve etc.)	Conferencing technology
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	NLP