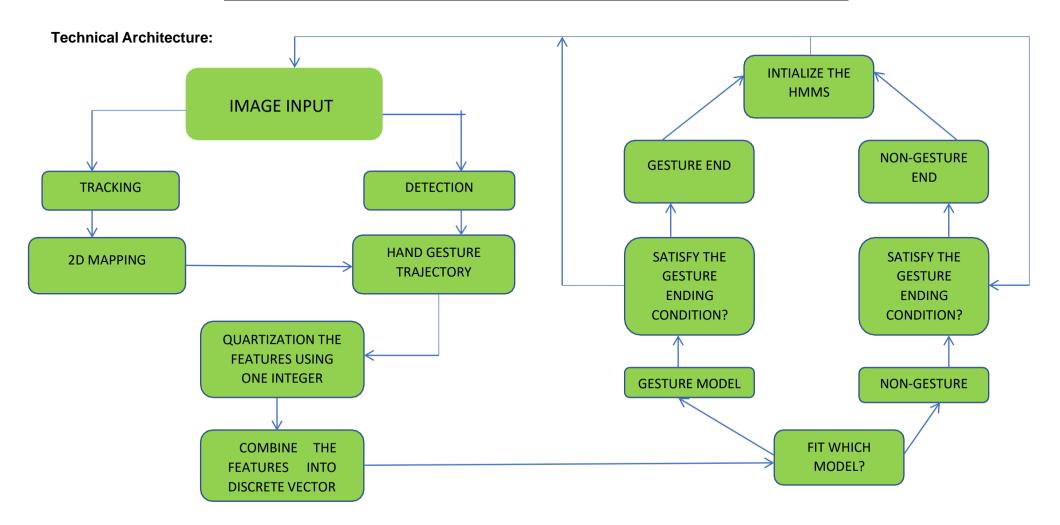
## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	14 October 2022
Team ID	PNT2022TMID47801
Project Name	Real-Time Communication System
	Powered By Al For Specially Abled
Maximum Marks	4 Marks



**Table-1 : Components & Technologies:** 

S.No	Component	Description	Technology
1.	User Interface	Interact with content or software running on a remote	HTML, CSS, JavaScript / Angular
		server through a web browser. e.g.	Js / React Js etc.
		Web UI, Mobile App, Chatbot etc.	
2.	Application Logic-1	Speech into sign language	Java / Python
3.	Application Logic-2	Speech to readable language	IBM Watson Assistant
4.	Application Logic-3	Sign language to speech	IBM Watson STT Service
5.	Database	Data Type, Configurations etc.	MySQL
6.	Cloud Database	Provides access to a database without requiring the	IBM DB2, IBM Cloudant etc.
		setup of physical hardware, the installation of software or	
		the need to configure the database.	
7.	File Storage	It stores data in a hierarchical structure.	IBM Block Storage or Other
		The data is saved in files and folders, and presented to	Storage Service or Local
		both the system storing it and the system retrieving it in	Filesystem
		the same format.	
8.	External API	An external or open API is an API designed for access	IBM Weather API, etc.
		by a larger population as well as web developers.	
9.	Machine Learning Model	A machine learning model is a file that has been trained	Object Recognition Model, etc.
		to recognize certain types of patterns.	
10.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud	Local, Cloud Foundry,

A server configuration defines a specific database as the	Kubernetes, etc.
repository for its data.	
Local Server Configuration: Serves a client within the	
local network or LAN.	
Cloud Server Configuration: Process of setting	
hardware and software details for elements of a cloud	
environment to ensure that they can interoperate and	
communicate.	

## **Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	It is a open-source which enables rapid development of secure and maintainable websites	Django
2.	Security Implementations	Technical tools and techniques that are used to implement security services.  A mechanism might operate by itself, or with	SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	others, to provide a particular service  Supports higher workloads without any fundamental changes to it.	Devops

S.No	Characteristics	Description	Technology
4.	Availability	Measure used to evaluate whether an application	Conferencing Technology
		is functioning properly and usable to meet the	
		requirements of an individual or business.	
5.	Performance	Indicates how the app is functioning and how	Natural Language Processing
		responsive the app is to the end-user.	