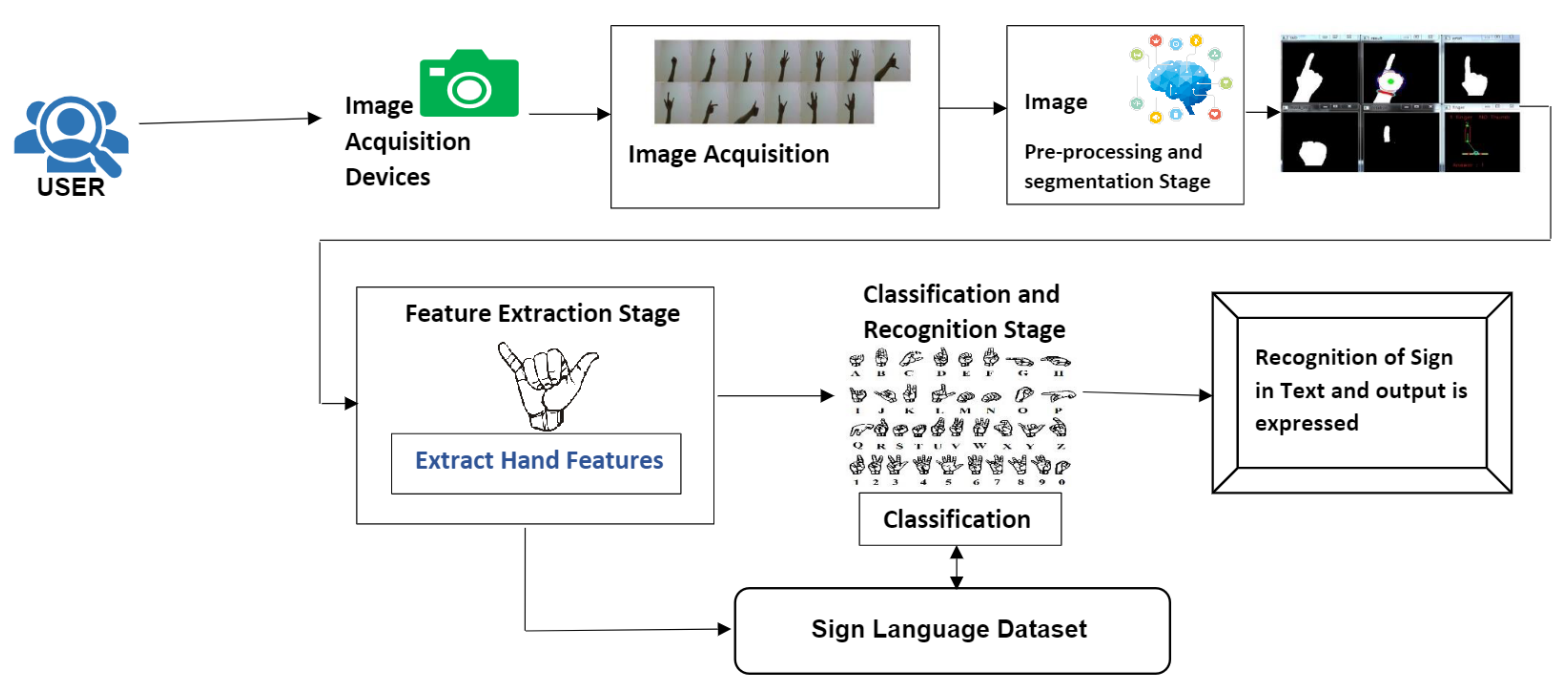


## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID07674
Project Name	Project - Real time communication for specially abled
Maximum Marks	4 Marks



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

S.No	Component	Description	Technology
1.	User Interface	The user interface is the point of human computer interaction and communication in device.	Python flask
2.	Flash UI	Flash's user interface components let you interact with the users that use your site and gather information.	Using the cloud it can be executed
3.	Models	Support Vector Machine (SVM) is subsequently applied to classify our gesture image dataset.	Machine learning
4.	Image Prediction	Gesture can be completely observable and viewing a gesture from another perspective makes the prediction.	ANN,CNN
5.	Image	Image processing is used to made the image into signs by the neural network	ANN,CNN,open CV
6.	Speach	Speech translates the voice into image and sensitive neural play.	AI and machine learning methods like deep learning and neural networks
7.	Evaluate data	AI and machine learning methods like deep learning and neural networks	NLP
8.	Unstructured data	unstructured data is a conglomeration of many varied types of data that are stored in their native formats.	Natural Language Processing (NLP)
9.	Structured data	Typically categorized as quantitative data — is highly organized and easily decipherable by machine learning algorithms	Machine language and artificial intelligence tools
10.	Machine Learning Model	Training	Object Recognition Model, etc.
11.	Data set	First prototype of this system is was used a dataset of 24 static signs from the Panamanian Manual Alphabet.	AI technology

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Robots and other tools provide home-based care and other assistance, allowing people with disabilities to live independently	Artificial Intelligence like robots and software systems
2.	Security Implementations	Set the inclusion and exclusion criteria , Report the results in the survey	Artificial Intelligence
3.	Scalable Architecture	The improvement in the specially abled persons interaction with the environments	Artificial Intelligence
4.	Availability	Justify the availability of application	Conferencing technology
5.	Performance	Enables people with disabilities to step into a world where their difficulties are understood and taken into account	NLP

#### References:

<https://c4model.com/>

<https://developer.ibm.com/patterns/online-order-processing-system-during-pandemic/>

<https://www.ibm.com/cloud/architecture>

<https://aws.amazon.com/architecture>

<https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d>