Data Flow Diagram:

Project Design Phase - II

Data Flow Diagram &

<p align="center">**User
Stories**</p>

Date	19 October 2022
Team ID	PNT2022TMID30815
Project Name	Real-Time Communication SystemPowered by AI for Specially Abled
Maximum Marks	4 Marks

Flow:

- We start by collecting key points from media-pipe holistic and collect a bunch of data from key-points

- Save data in the form of numpy arrays.

- We then build a LSTM model and train with our stored data

- The number of epochs for the model is determined by us, if we increase the number of epochs the accuracy increases buttime taken to run the model also increases and overfitting of model can happen, for gesture recognition.

- Once training is done, we can use this model for real time hand gesture detection and simultaneously convert the gesture tospeech using OpenCV.

User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requireme nt(Epic)	User Story Numbe	User Story / Task	Acceptanc e criteria	Priorit y	Releas e

		r				
Developer	Model Building	USN-1	Collect Dataset		High	Sprint-1
		USN-2	Collecting Key points using Media Pipe Holisitic		High	Sprint-1
		USN-3	Training a Model Using LSTM from key Points		High	Sprint-2
		USN-4	Convert text to Speech using google Api		Medium	Sprint-2
		USN-5	Model is integrated in flask app		High	Sprint-3
Customer (Web user)	Communication	USN-1	Communicating in Front of camera		High	Sprint-1