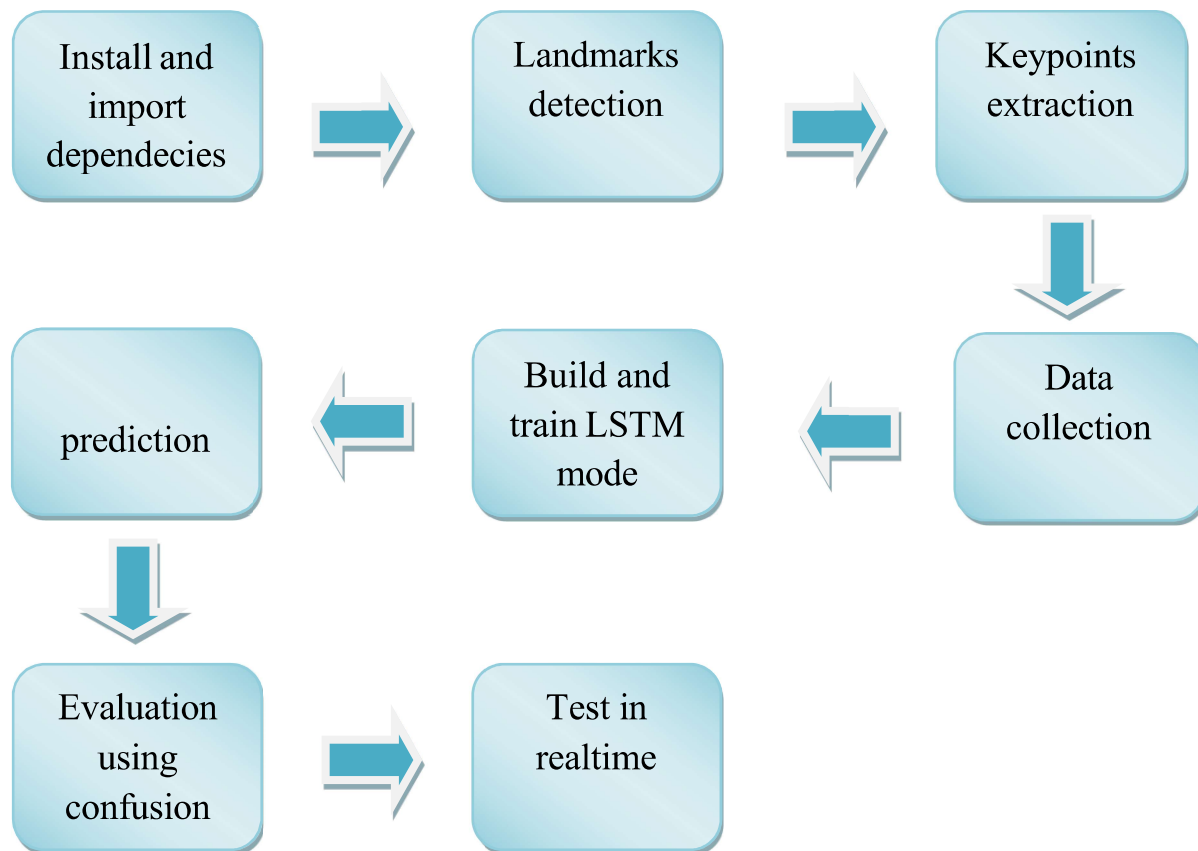


## Project Design Phase-2

### Data Flow Diagram & User Stories

Date	15 NOVEMBER 2022
Team ID	PNT2022TMID16097
Project Name	Real-Time Communication System Powered by AI for Specially Abled.
Maximum Marks	4 Marks

#### Data Flow Diagram:



#### 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

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming the password	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail	I can register via some third party's link	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	I can type manually and also can use saved login credentials	High	Sprint-1
	Dashboard	USN-6	As a customer, I can get all services and help through the dashboard	I can access my dashboard and change profile	Medium	Sprint-2
Customer (Web user)	Registration	USN-7	As a customer, I could be able to login through registered phone number by using OTP instead of Gmail	I could be able to register & login via phone number to access my account	High	Sprint-2
Customer Care Executive	Service	USN-8	Can avail the service by calling customer care or reaching through E-mail.	Can avail the service by calling customer care or reaching through E-mail.	Medium	Sprint-1
Administrator	Sign up	USN-9	Customer have to sign-up to use these things and all	Have to enter valid credentials.	High	Sprint-1
	Enrollment	USN-10	The customer can avail all services once he/she enrolled.	As customer it is quite enchanting.	Medium	Sprint-2

- The number of epochs for the model is determined by us, if we increase the number of epochs the accuracy increase but time 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 to speech using OpenCV.