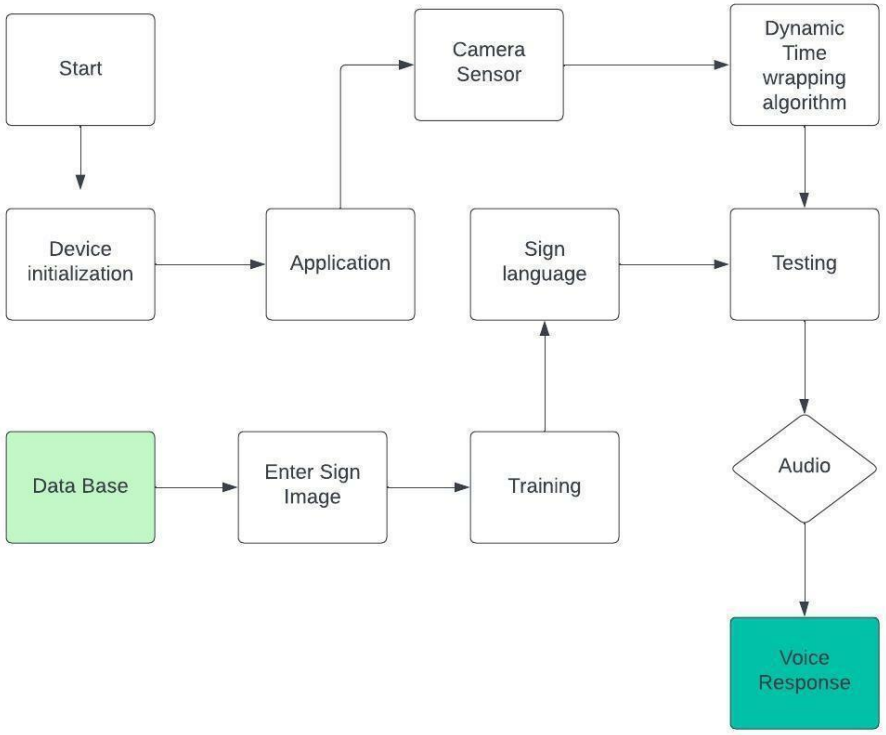
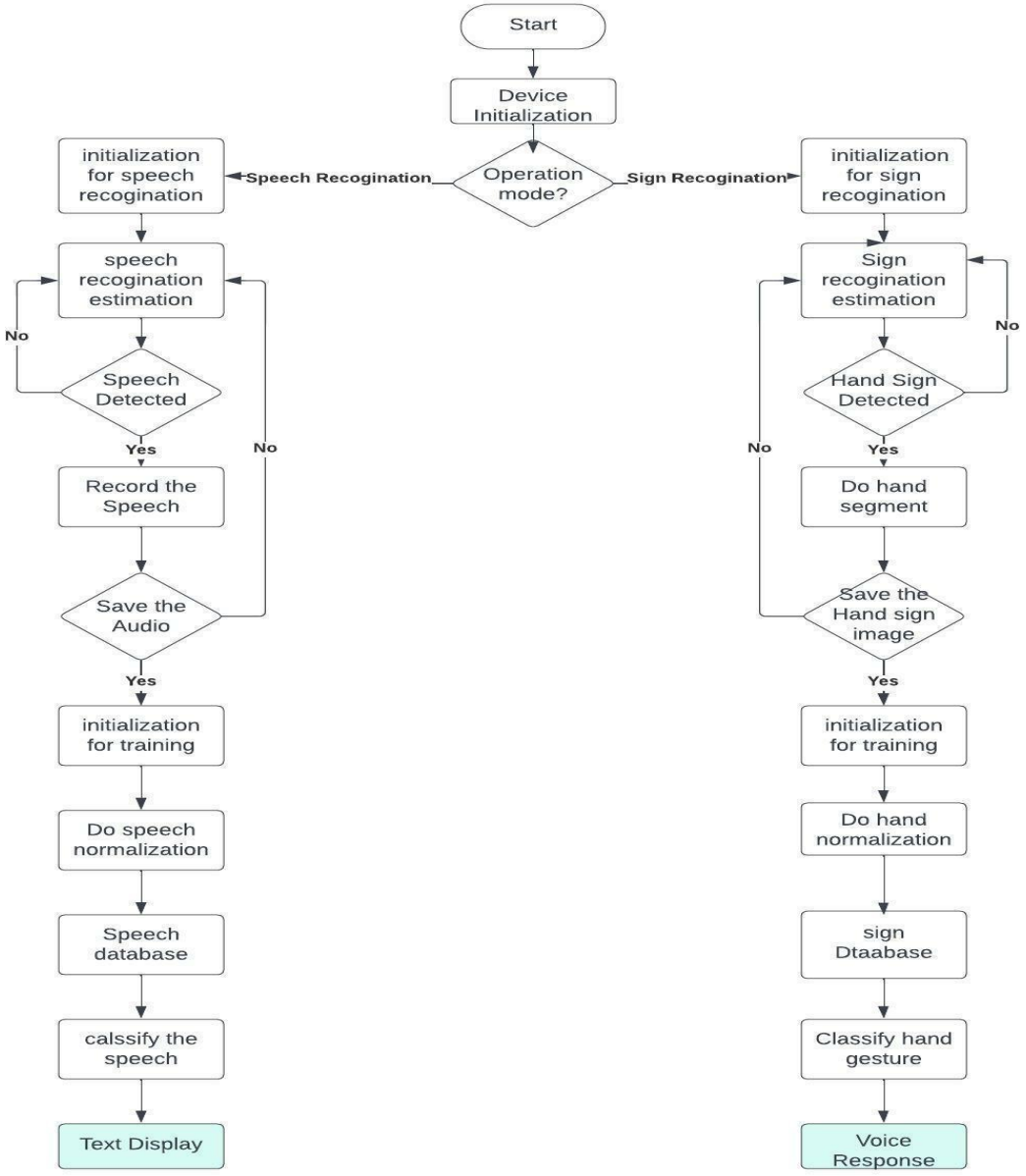
Project Design Phase-II
Data Flow Diagram & User Stories

Date	14 October 2022
Team ID	PNT2022TMID33857
Project Name	Real-Time Communication System Powered by AI for Specially Abled
Maximum Marks	4 Marks

Data Flow Diagram:




Start
Device Initialization
Operation mode?
Speech Recogination
Sign Recogination
initialization for speech recogination
speech recogination estimation
Speech Detected
No
Yes
No
Record the Speech
Save the Audio
Yes
initialization for training
Do speech normalization
Speech database
calssify the speech
Text Display
initialization for sign recogination
Sign recogination estimation
Hand Sign Detected
No
Yes
No
Do hand segment
Save the Hand sign image
Yes
initialization for training
Do hand normalization
sign Dtaabase
Classify hand gesture
Voice Response

User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Desktop user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
	Login	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
	Dashboard	USN-3	As a user, I can select options in the dashboard.	I can select options in the dashboard.		
Customer (Desktop user)	Main page	USN-4	As a User, I can enter the web page once clicked, which provides be the Guidelines to use the app	I can enter the web page once clicked.	Medium	Sprint-1
Customer (Desktop user)	Guidelines	USN-5	As a User, I can give a read through the guidelines to understand the functioning of the app.	I can give a read through the guidelines.	Medium	Sprint-1
Customer (Desktop user)	Convert Sign	USN-6	As a User, I can click the button Convert sign, which directs me towards the Main screen	I can click the button Convert sign and it direct me to main screen.	Medium	Sprint-2
Customer (Desktop user)	Camera (Hand movement detection)	USN-7	As a User, I can show my hand sign towards the camera which converts them into text manner.	I can show my hand sign towards the camera accurately.	High	Sprint-2

Customer (Desktop user)	Voice mode	USN-8	Once the text is obtained, as a User I can click on the voice mode which provides the text in the form of speech.	I can click on the voice mode which provides the text in the form of speech.	High	Sprint-3
Customer Care Executive	Provide the necessary functionalities required to use the app.	USN-9	As an Executive, I can provide the Specifications of Camera required, and other factors that are required for smooth functioning of the app.	I can provide the Specifications of camera required, and other factors	Low	Sprint-1
Customer Care Executive	Check the performance of the app	USN-10	As an Executive, I can check the usage and queries obtained from the end users.	I can check the usage and queries obtained from the end users.	Medium	Sprint-1
Administrator	Receive queries based on usage	USN-11	As an Admin, I can take the queries from the customer care and perform the testing phase again, loading the other signs in the dataset, in order to make the customers use the app effectively.	I can take the queries from the customer care and perform necessary phases again.	High	Sprint-3