Project Design Phase-II
Data Flow Diagram & User Stories
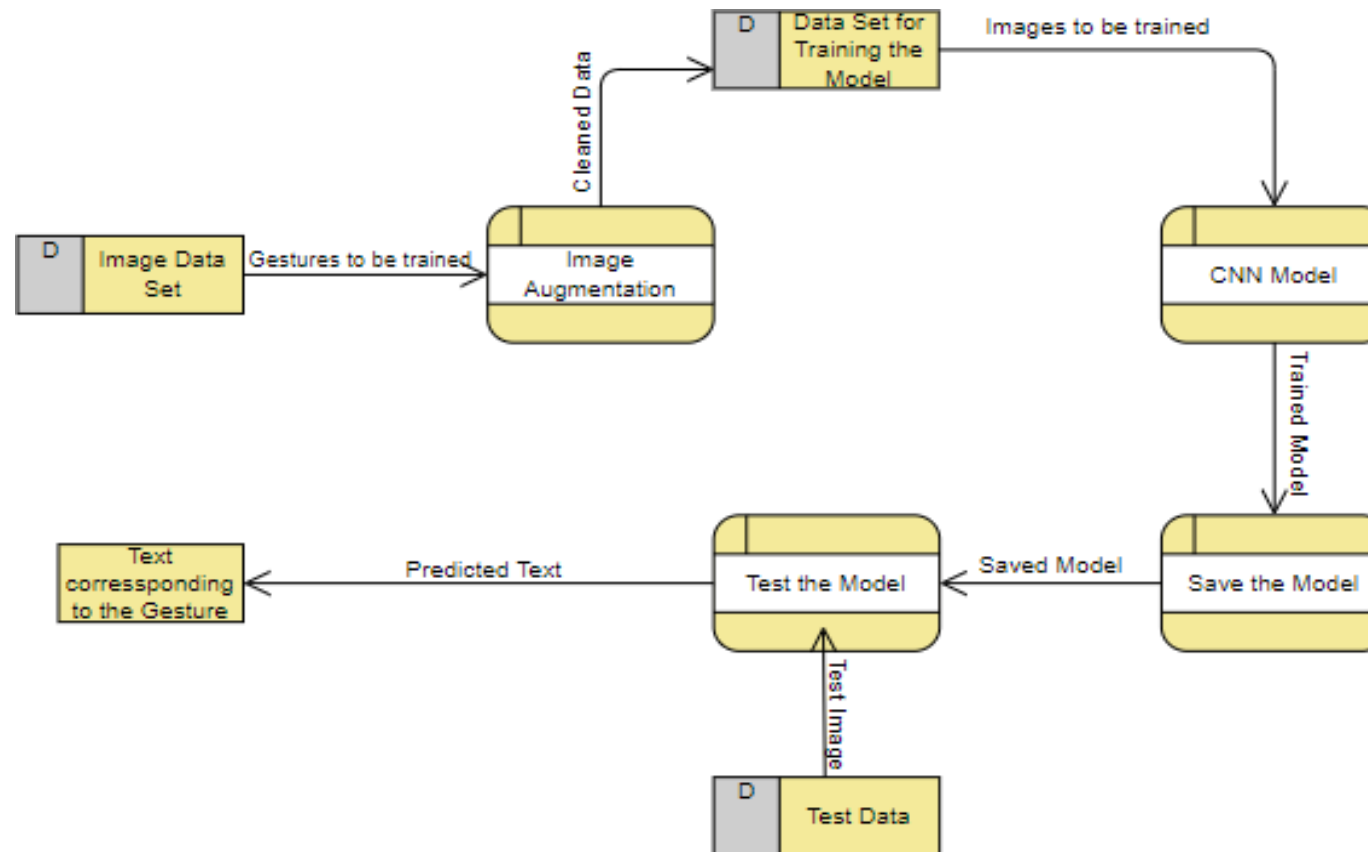
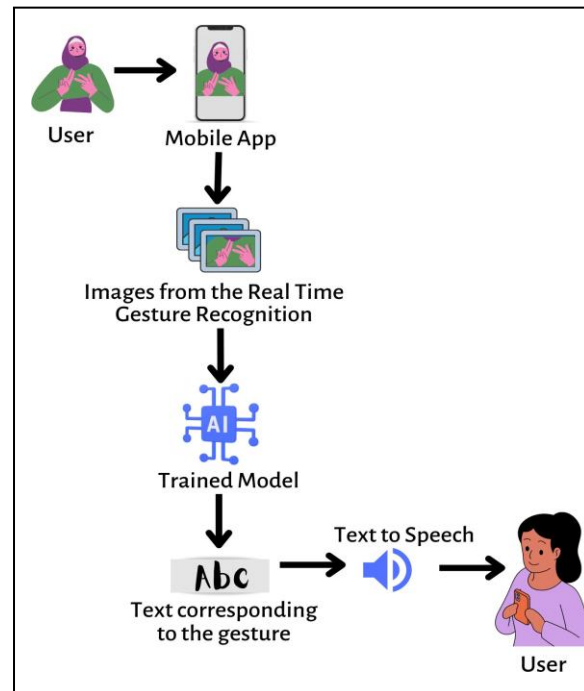| Date	17 October 2022
Team ID	PNT2022TMID22298
Project Name	Real-Time Communication System Powered by AI for Specially Abled
Maximum Marks	4 Marks

Data Flow Diagrams:

Level - 0 DFD:

Level - 1 DFD:

Simplified Flow Diagram:

1. User (specially abled) can open the App and start recording their sign language.
2. The App will take images from the real time video footage and passes it to the trained AI model
3. The model classifies the gesture and returns the corresponding text.
4. The text is then converted into speech for the normal people to hear.

User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user - People who cannot hear)	Convert sign language into text	USN-1	As a user, I can open camera in the app and record my signs to be converted into text	I can communicate with normal people effectively	High	Sprint-1
		USN-2	As a user, I can upload my previous sign gestures to communicate faster	I can have a list of frequently used signs to make for fast reference	Medium	Sprint-2
	Dashboard	USN-3	Buttons to record the signs, to convert in real-time and other buttons should be available in the right places	All features must be easily accessible	High	Sprint-1
		USN-4	Emergency calls must be available so that I can press a button in times of emergency to get the attention of others	I can feel safe because of the Emergency Button which can get me help.	High	Sprint-4
Customer (Mobile user - People who can hear and talk)	Convert sign language into text	USN-5	As a user, I can open back camera in the app and record the specially abled people's signs to be converted into text	I can understand the mode of communication of specially-abled people effectively	High	Sprint-2
	Show the message to convey in the form of text	USN-6	As a user, I can open a Text-pad that is available in the app, so that the deaf people can see the message I need to convey	I can convey my message to them effectively	Medium	Sprint-3
Administrator	Integrate application with trained model	USN-7	As an admin, I should be able to integrate the AI model into the application and maintain the application	I can give best experience the the mobile app users	High	Sprint-1