

Project Design Phase-II

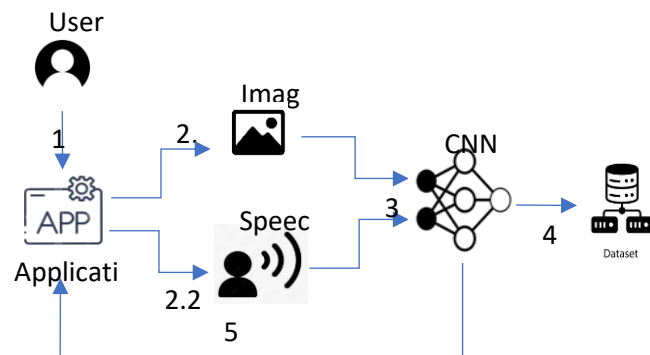
Data Flow Diagram & User Stories

Date	03 October 2022
Team ID	PNT2022TMID10881
Project Name	Real Time Communication Using AI for Specially Abled
Maximum Marks	4 Marks

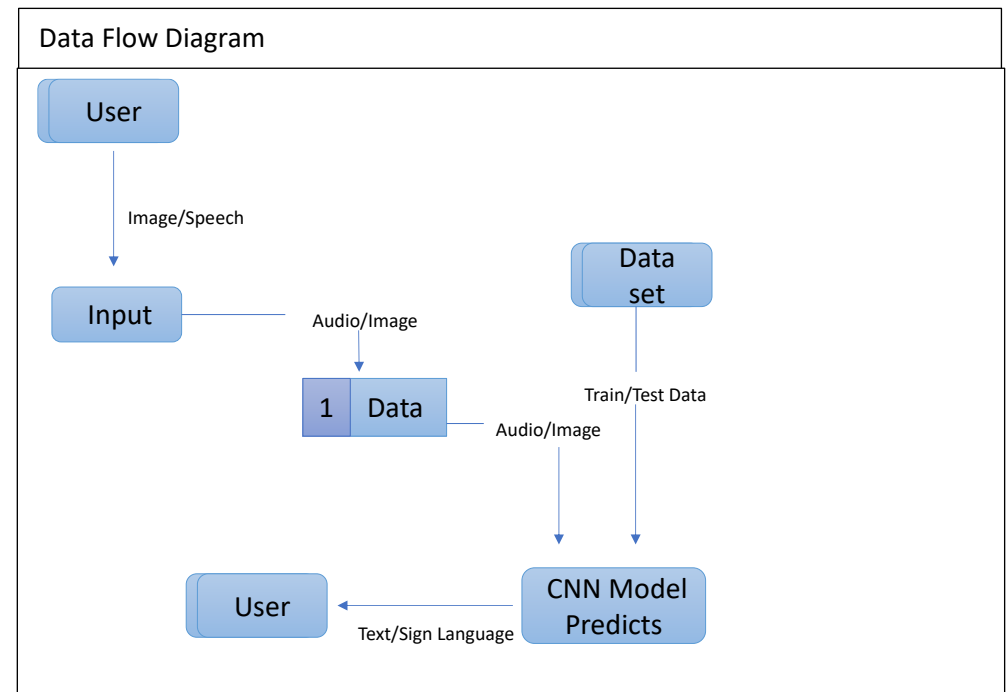
Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows in a system. A neat and clear DFD can graphically depict the required amount of system capacity. It shows how data enters and exits the system, what changes the data, and where the data is saved.

Example: [\(Simplified\)](#)



1. User runs the application.
2. The user gives sign language image or speech as input.
3. After getting the input, it is processed in the CNN model.
4. The model would evaluate or predict the language.
5. Finally the text or sign language would be given as an output to the user.



User Stories

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

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Deaf and mute person	Gesture recognition	USN-1	The user would do the gestures and the system would capture it.	User is able to operate the system easily	High	Sprint-1
		USN-2	The gestures that are done by the user, is instantly stored inside the database.	User is able to see the gestures getting recorded	High	Sprint-1
		USN-3	Then the stored gestures would be processed one by one and finally it would be converted into the desired output.	User can instantly see the gestures being converted into speech.	Low	Sprint-2
		USN-4	The gestures are converted into text which is understood by a normal person.	Anyone can easily communicate with an ordinary man	High	Sprint-1
Ordinary person	Speech recognition	USN-1	The speaker would speak the desired message that is needed to be conveyed to the specially abled.	I am able to operate the system easily	High	Sprint-1
		USN-2	The system records the speech or sign language	I am able to see the speech getting recorded	High	Sprint-1
		USN-3	The reordered voice message that are stored in the database are converted into the desired output.	I can instantly see the speech being converted into gestures.	Low	Sprint-2
		USN-4	At last, the speech that has been converted into gestures can be easily understandable by the specially abled.	I can easily communicate with a specially abled.	High	Sprint-1