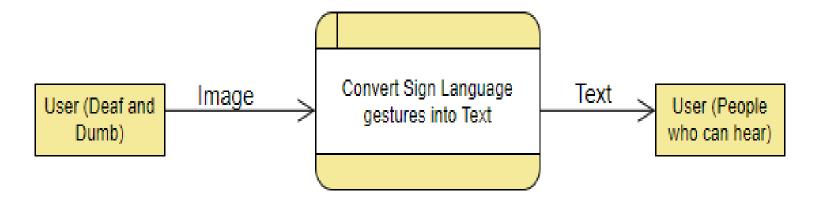
Project Design Phase-II Data Flow Diagram & User Stories

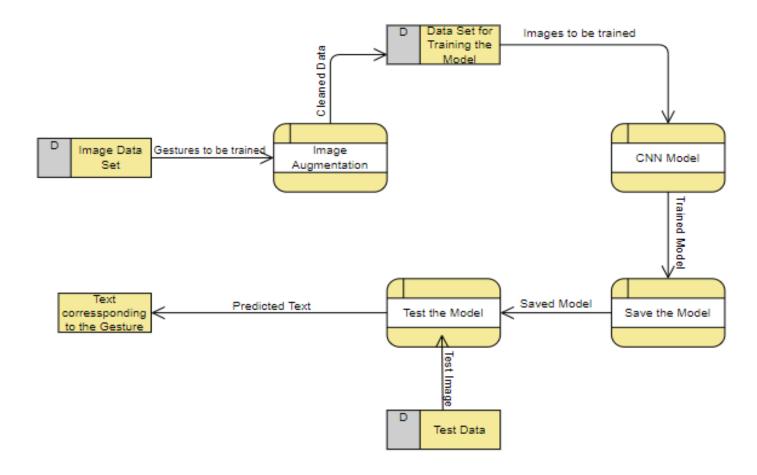
Date	10 October 2022
Team ID	PNT2022TMID01280
Project Name	Real-Time Communication System Powered by Al for Specially Abled
Maximum Marks	4 Marks

Data Flow Diagrams:

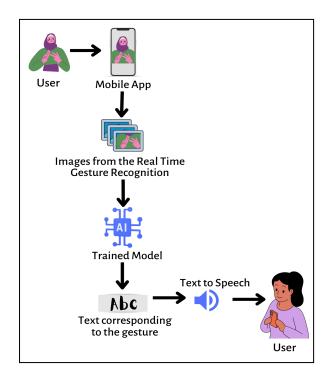
Level - 0 DFD:



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)	Model building	USN-1	As a user, I am able to interact within the model effortlessly	I can communicate with normal people effectively	High	Sprint-1
Customer (Mobile user - People who cannot hear)	Dataset collection	USN-2	As a user,i am able to upload the image	I can upload pre-defined gestures for fast access	High	Sprint-1
Customer (Mobile user - People who cannot hear)	Uploading the image	USN-3	As a user, I can assure that the images are uploaded correctly.	I can control what is being uploaded	High	Sprint-1
Customer (Mobile user - People who can hear)	Display the image	USN-4	As a user,i can view the output of the image uploaded	I can get the actual text of the gesture	High	Sprint-1
Customer	Training the model	USN-1	Model trained to produce accuracy for prediction.	I can understand the mode of communication of specially-abled people effectively	High	Sprint-2
Customer	Upload the dataset for training	USN-2	As a user, I am able to get the result without delay	I can convey my message to them effectively	High	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Developer	Layers to predict the model	USN-3	As a user,I can use the model with ease to capture my gestures	I can give best experience to the app users	High	Sprint-2
Tester	Testing the model	USN-4	As a user, I can assure that there is accuracy in the predictions of the gestures.	I can get the correct predictions all the time	High	Sprint-2
Customer	HTML page design navigation	USN-1	As a user, the website navigation is simple and user-friendly.	I can easily navigate through the websites	Low	Sprint-3
Customer	Buttons and features	USN-2	It contains options for prediction	I can use different features easily	Low	Sprint-3
Customer	Additional content design	USN-3	It displays additional information on sign languages and other useful resources.	I can get more information about the context	Low	Sprint-3
Application Developer	Building Flask application	USN-1	As a user, I am able to interact with the application easily	I can use the app effortlessly	Medium	Sprint-4

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Developer	Connecting Python in backend	USN-2	As a user, I can feel that the response time of the application is high	I can get fast response	Medium	Sprint-4
Developer	Interface with the model	USN-3	As a user, I am able to upload the image easily	I can access the predictions easily	Medium	Sprint-4
Tester	Test the flask application	USN-4	As a user, I am able to view the contents very clearly	I can get the correct results everytime	Medium	Sprint-4