Project Design Phase-II

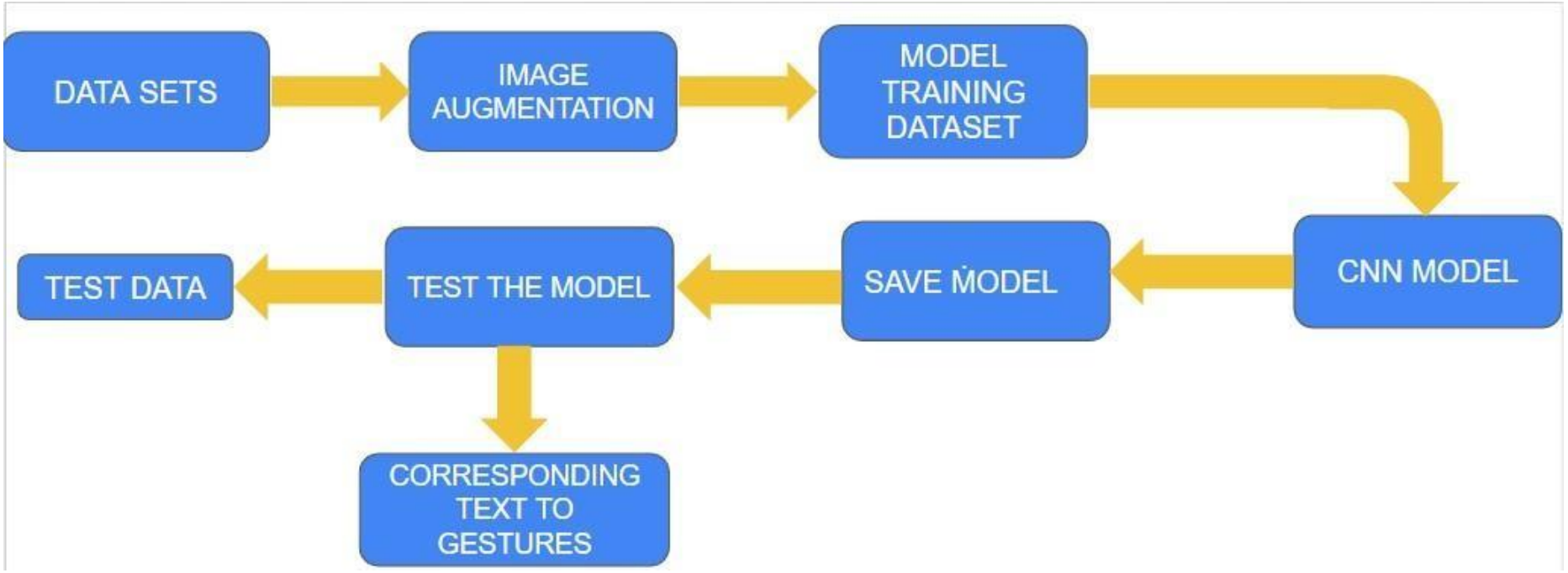
Data Flow Diagram & User Stories

	Date	12 October 2022
	Team ID	PNT2022TMID22166
	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:


DATA SETS
IMAGE AUGMENTATION
MODEL TRAINING DATASET
CNN MODEL
SAVE MODEL
TEST THE MODEL
TEST DATA
CORRESPONDING TEXT TO GESTURES

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	I can utilise the app's camera to record my handwriting and have it turn them into text as a user.	I can communicate with normal people effectively	High	Sprint-1
		USN-2	I can submit my past sign language movements as a user to communicate more quickly.	I can get a list of frequently used signs for quick access.	Medium	Sprint-2
	Dashboard	USN-3	The appropriate locations should have buttons to record the signs, convert in real-time, and other buttons.	Every feature must be readily usable.	High	Sprint-1
		USN-4	There must be emergency calls available so that I may push a button to alert others in an emergency.	The Emergency Button, which may summon assistance, makes me feel secure.	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 the app's back camera and capture the signs made by persons with disabilities so that they can be turned into text.	I am proficient at comprehending how persons with disabilities communicate.	High	Sprint-2
	Display the intended message in text form.	USN-6	I, as a user, can open the app's Text-pad so that the deaf can see the message I need to send.	I can properly communicate with them.	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