- ***Software component used :***

Software	Name	Purpose / Notes
OS	Raspberry Pi OS (Lite/Desktop)	Main operating system
Python	Python 3.x	Programming language for main logic
Libraries	opencv-python	Image capture and processing
	numpy	Array operations
	pytesseract	OCR (removed if not used)
	tflite-runtime	Running TensorFlow Lite models
	RPi.GPIO	GPIO pin control
	espeak or gTTS + mpg321	Text-to-speech output
Bluetooth	bluez, pulseaudio	Bluetooth audio (optional)
Editor	Thonny IDE	Python development environment on Pi
Model Files	ssd_mobilenet.tflite	TFLite model for object detection
Labels	coco_labels.txt	Class labels for detected objects

- ***Hardware component used:***

#	Tool Name	Purpose
1	**Soldering Iron**	For soldering sensor pins, GPIO headers, and component joints
2	**Multimeter**	For checking voltage, continuity, and testing connections
3	**Wire Cutter**	To cut jumper wires and other wiring materials cleanly
4	**Plier / Nose Plier**	For bending wires and holding components securely during assembly
5	**Screwdriver**	Used to tighten or loosen case and module screws
6	**Card Reader**	To flash the Raspberry Pi OS onto the microSD card from PC