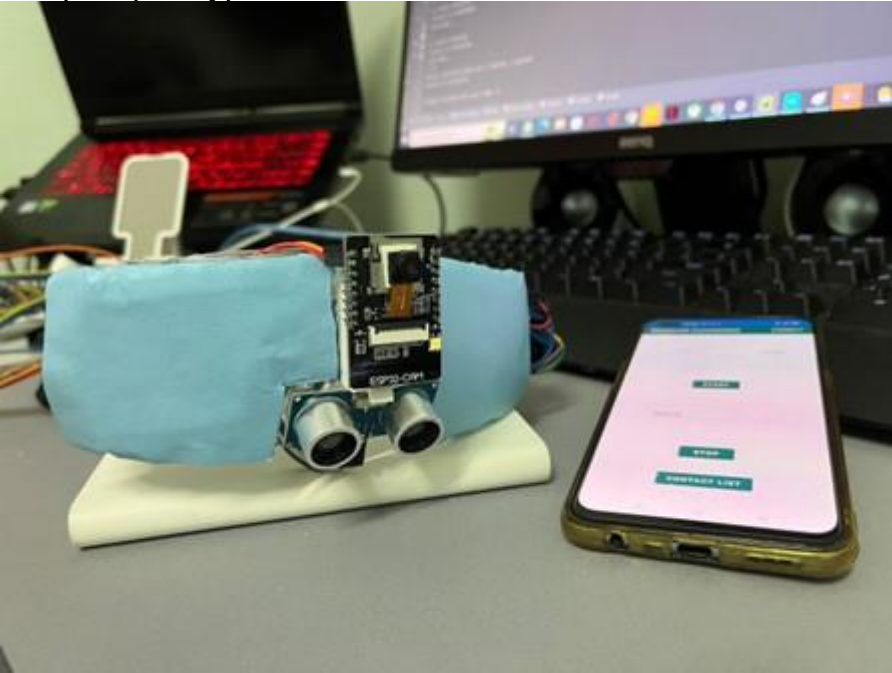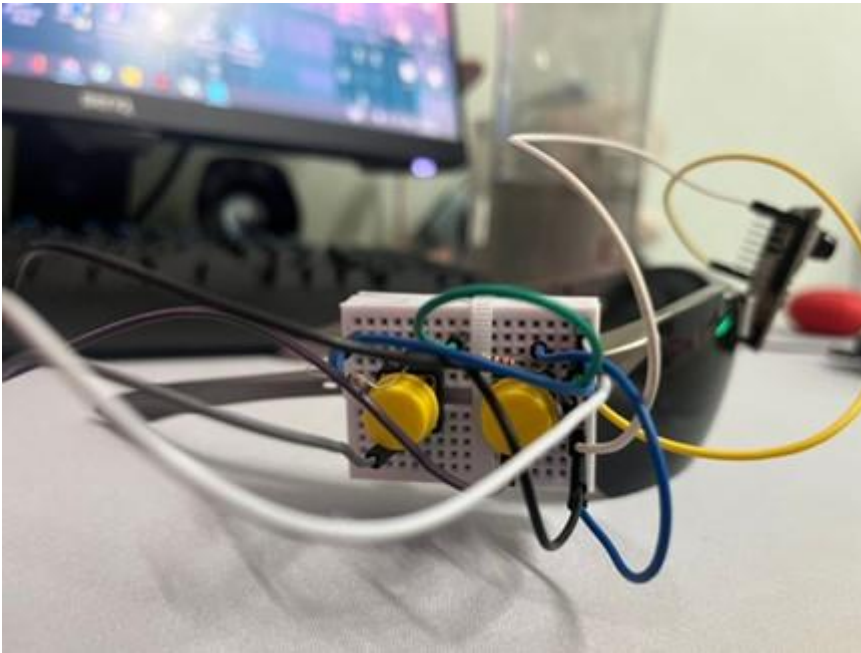# VisionGuard: Empowering Sight with Smart Spectacles
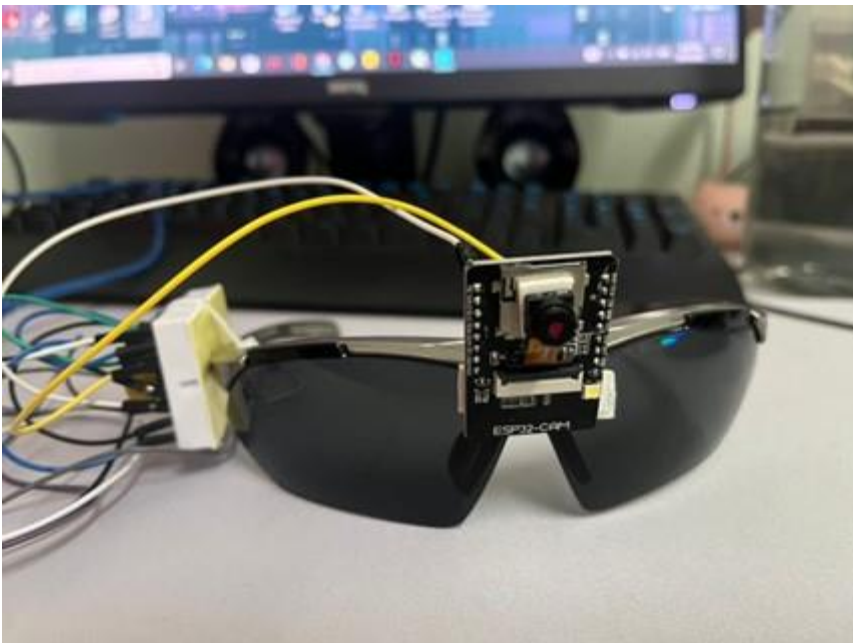

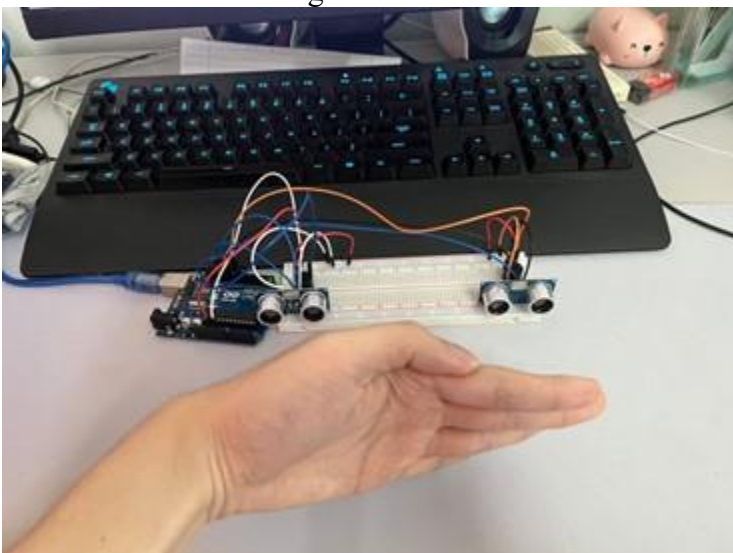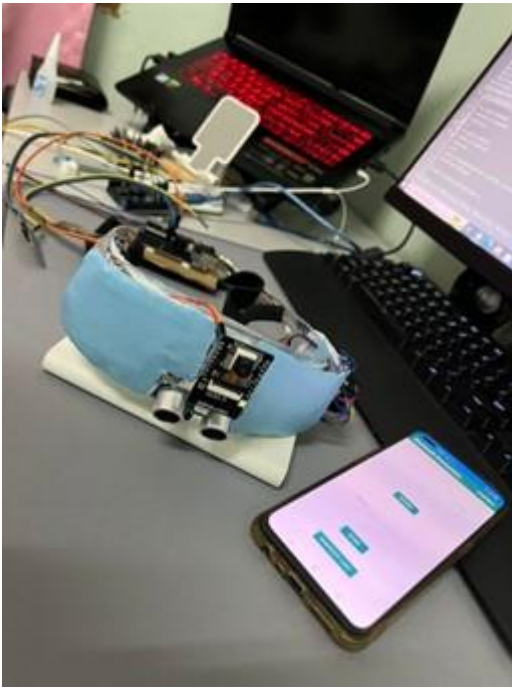Complete prototype

Battery

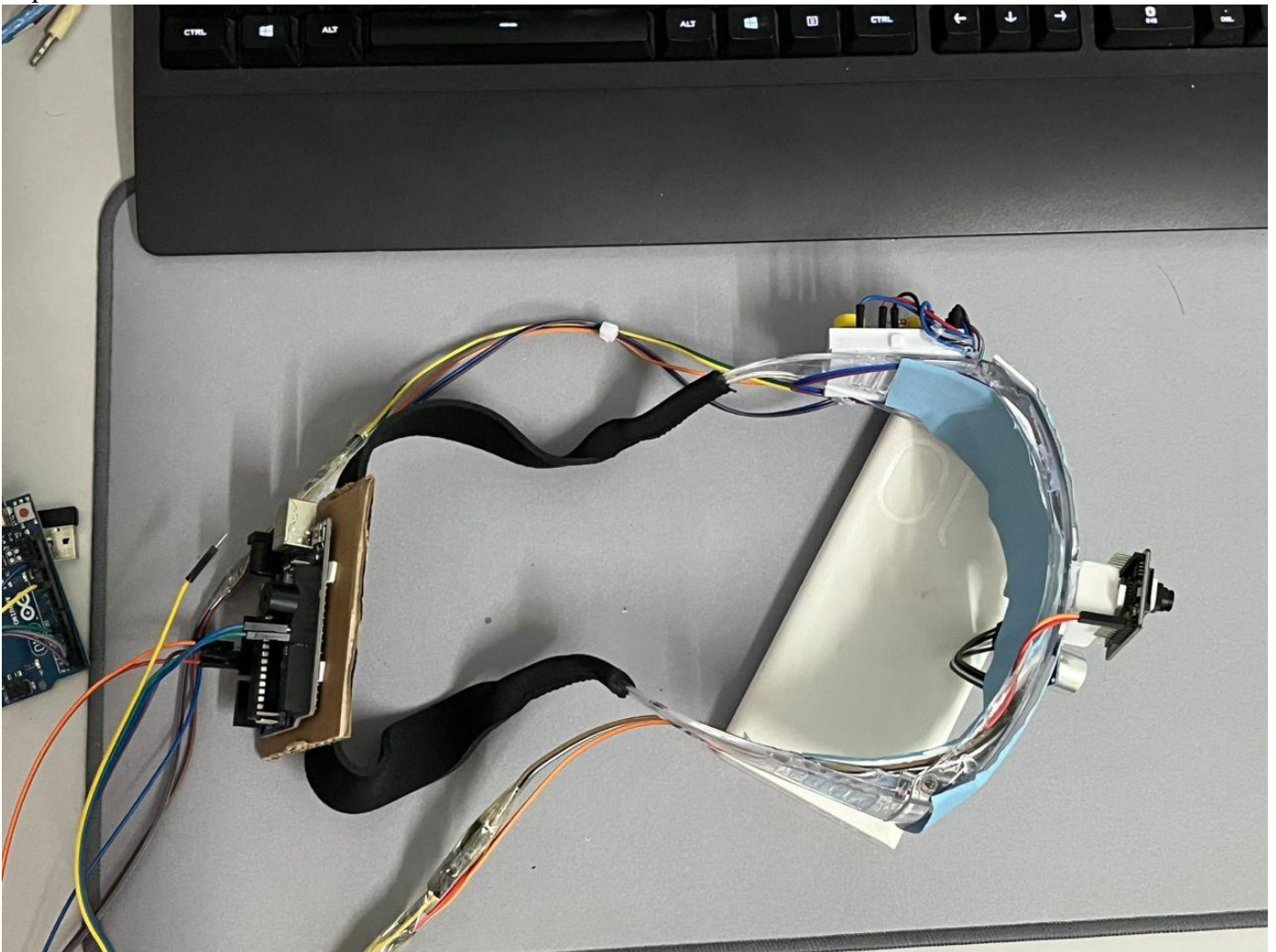ESP-32 Cam with buttons

ESP-32 Cam
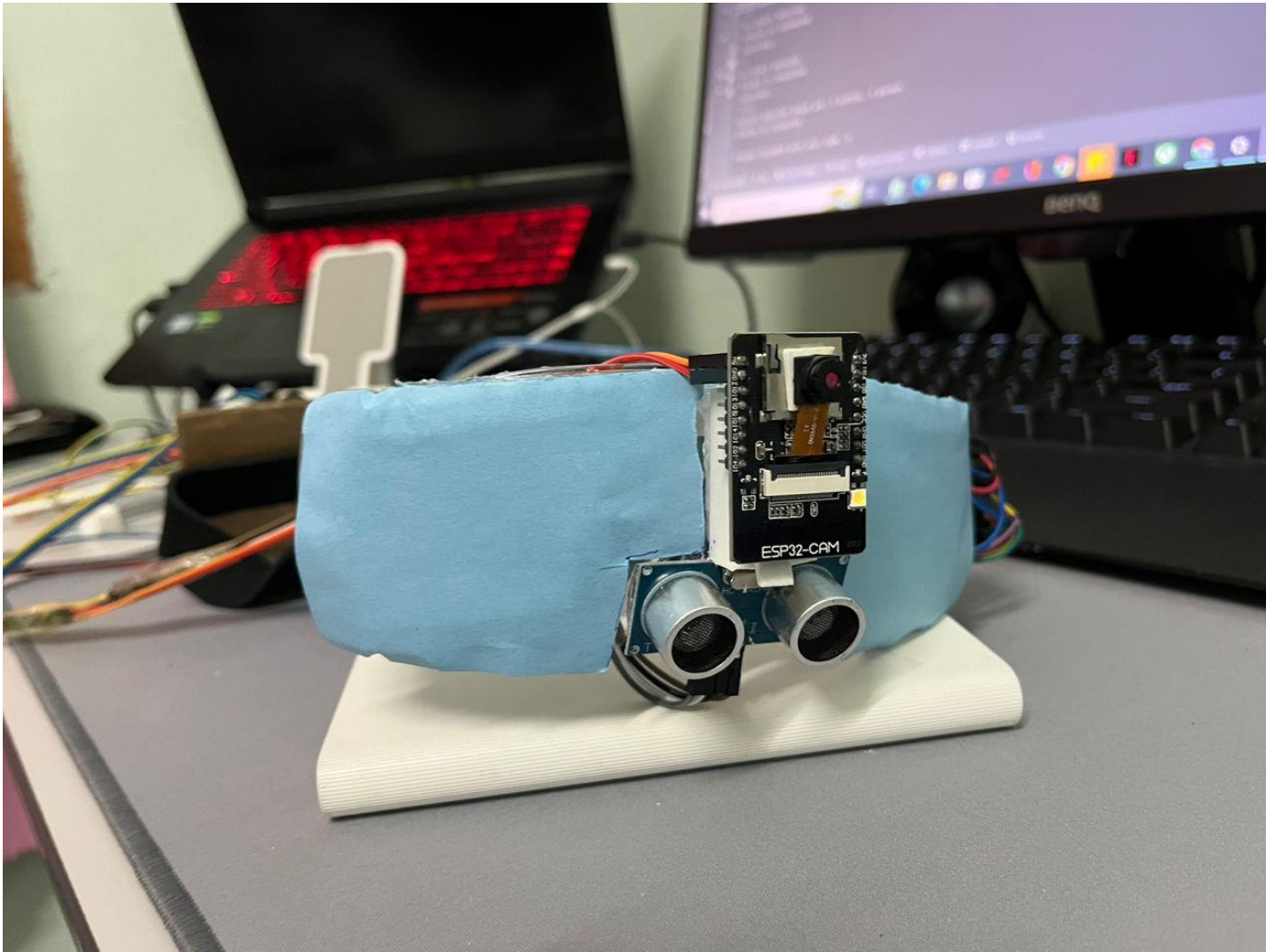
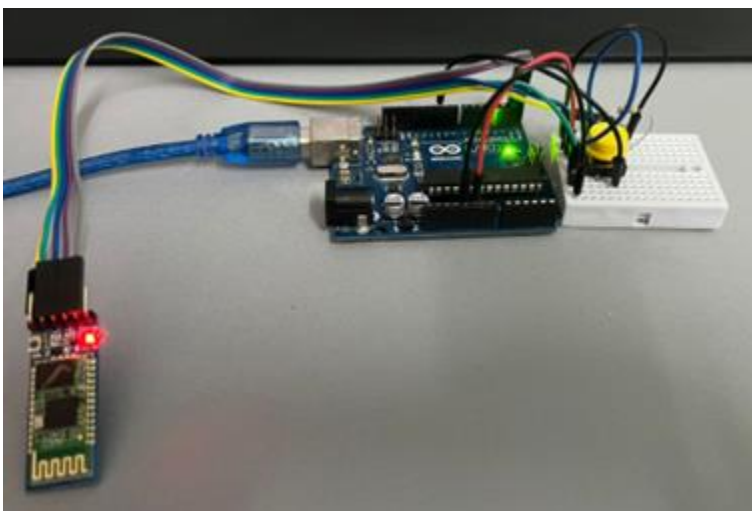

Obstacle Detection using ultrasonic sensors
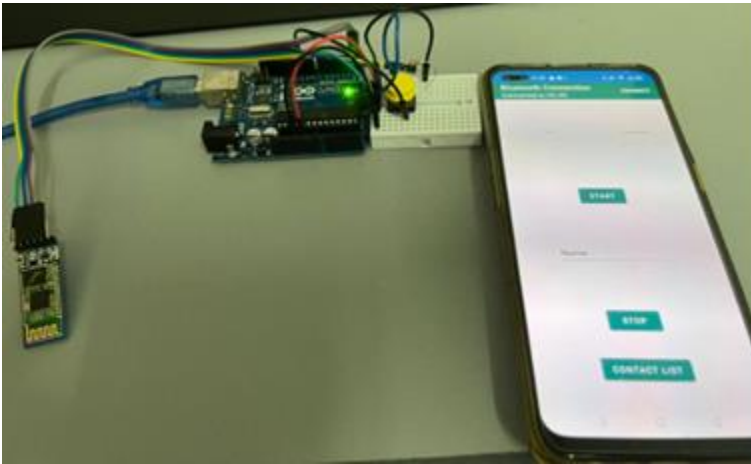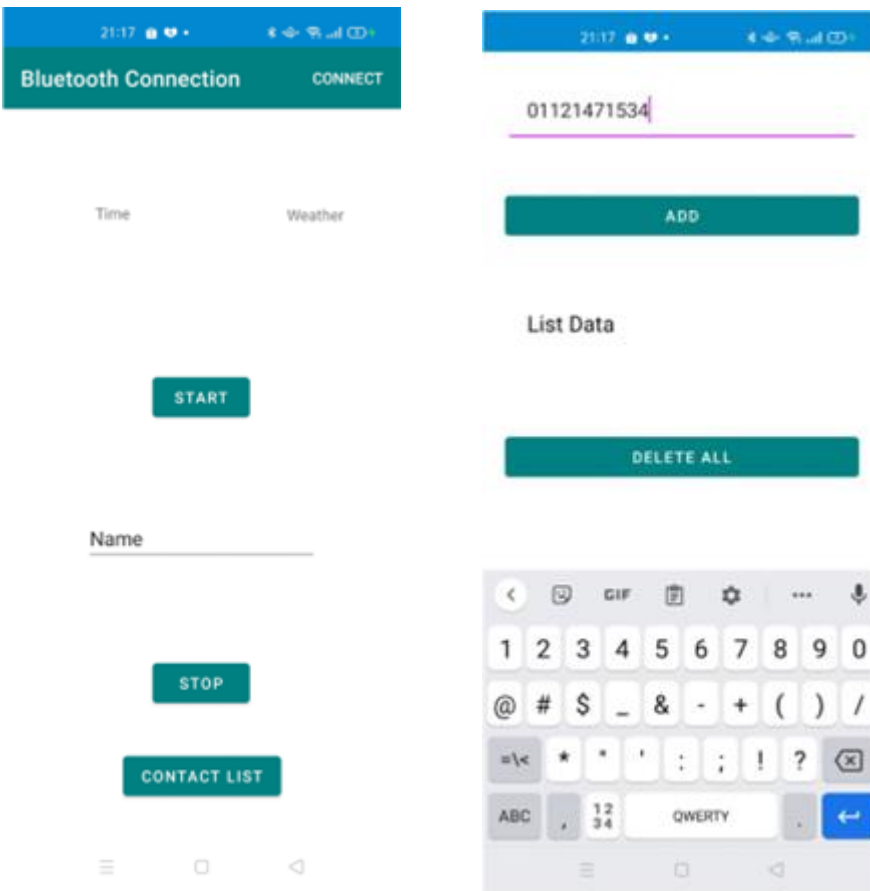
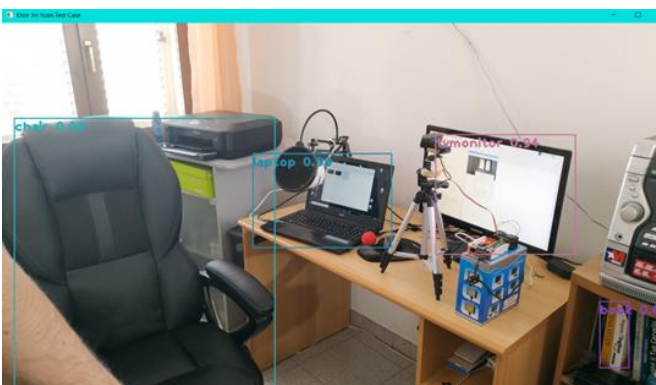VisionGuard with mobile app

Top view
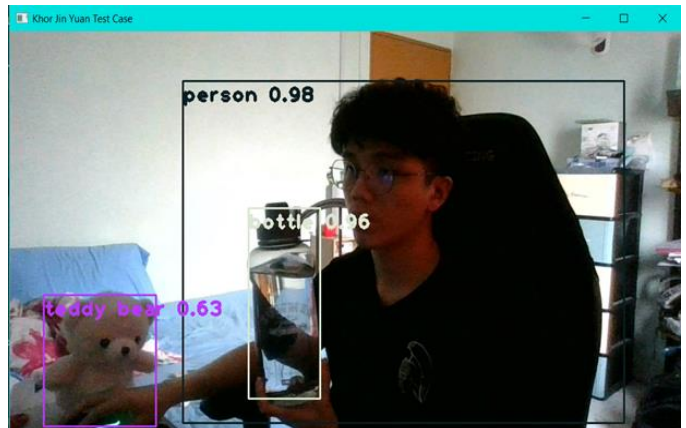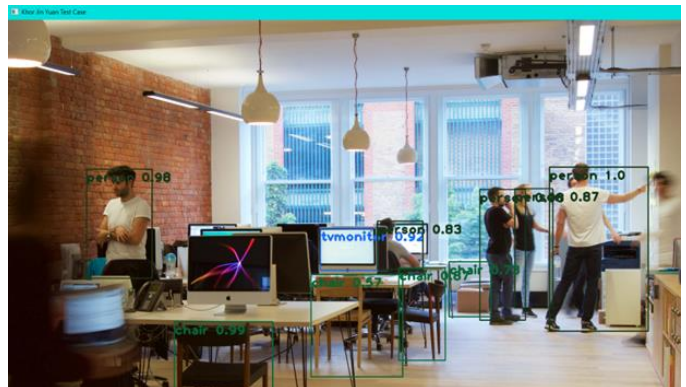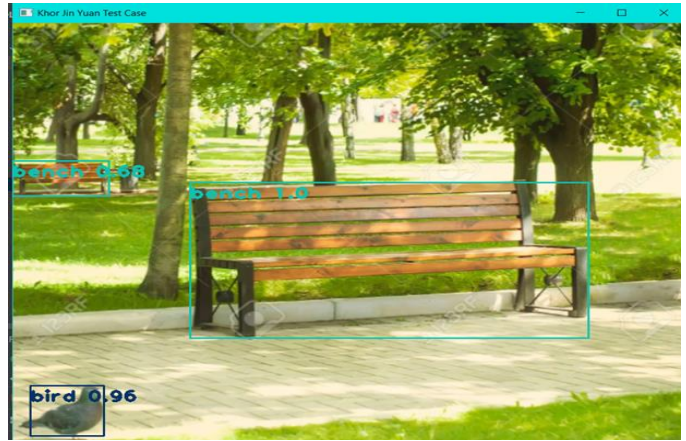
Front view

Voice Command_1

Voice Command_2

Voice Command – Mobile App

YOLOv3 Models

YOLOv3 Models

System Architecture

Ultrasonic sensor

ESP32 Camera module

Buzzer 5V Active

HC-05 Bluetooth Module For Arduino