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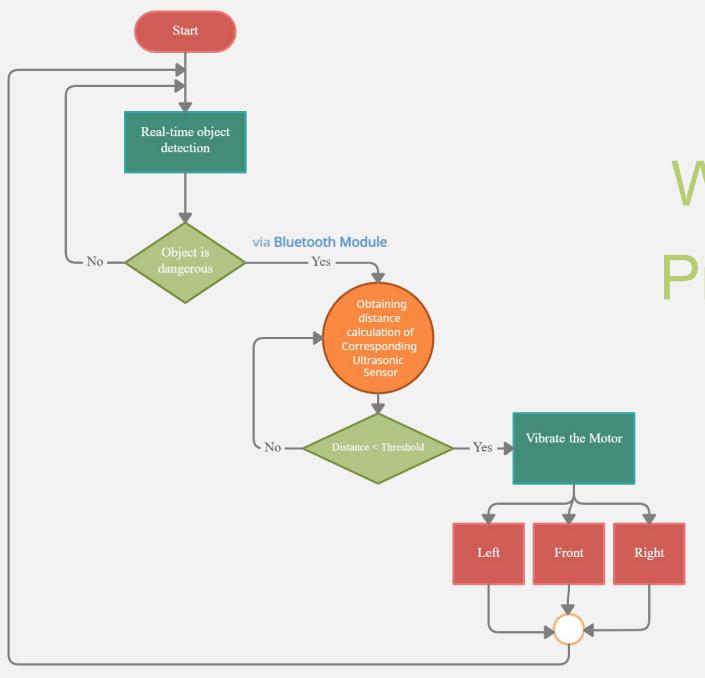
Supervisor: Assoc. Prof. Kamala Pashayeva



Importance of Project

Existing devices and systems

- Tactile displays
- Smart stick
- Smart shoe



Working Principle

Box Module





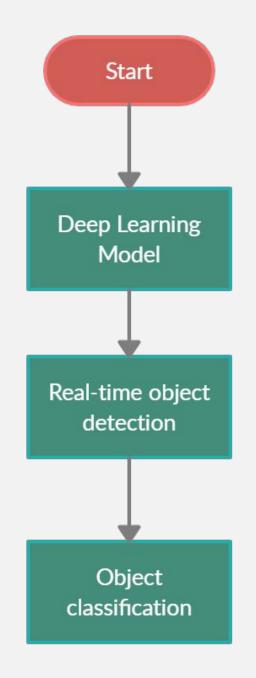
Raspberry Pi 4 model B



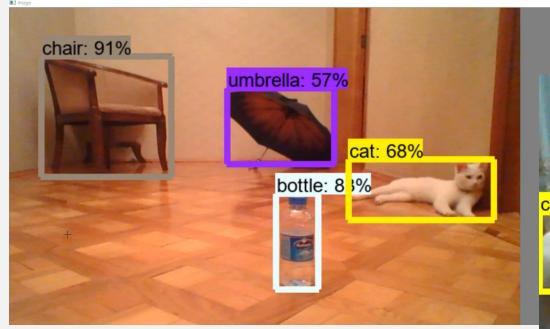
USB Bluetooth Dongle



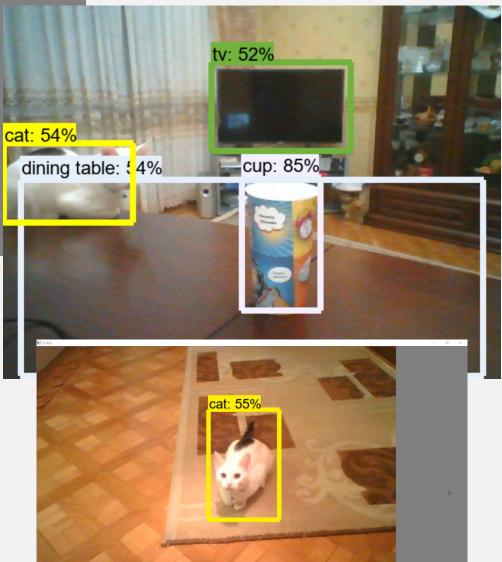
Pi camera



Testing

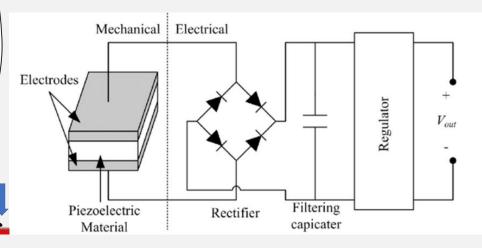






Main Power Source

Piezo Electric Transducer



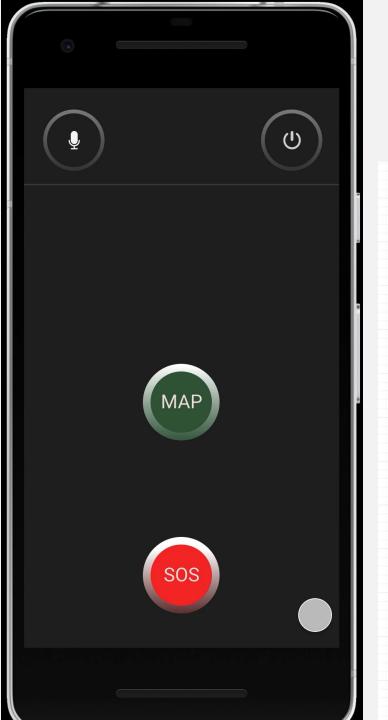
AC



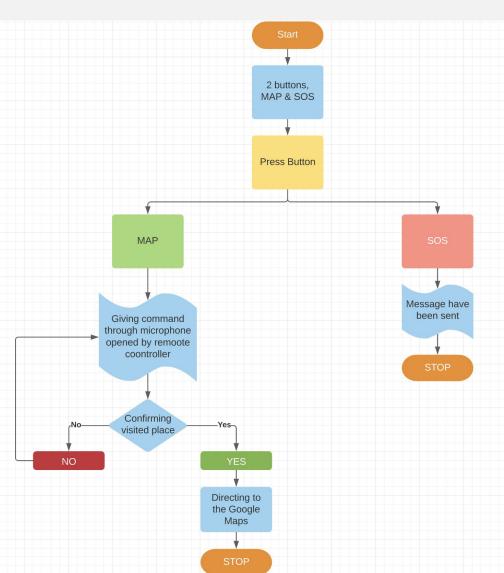


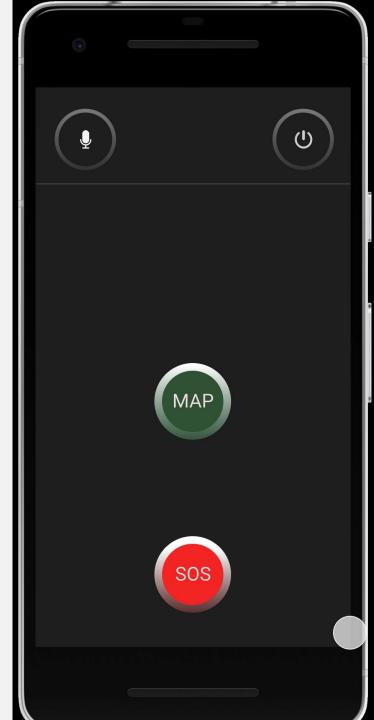
Triggers

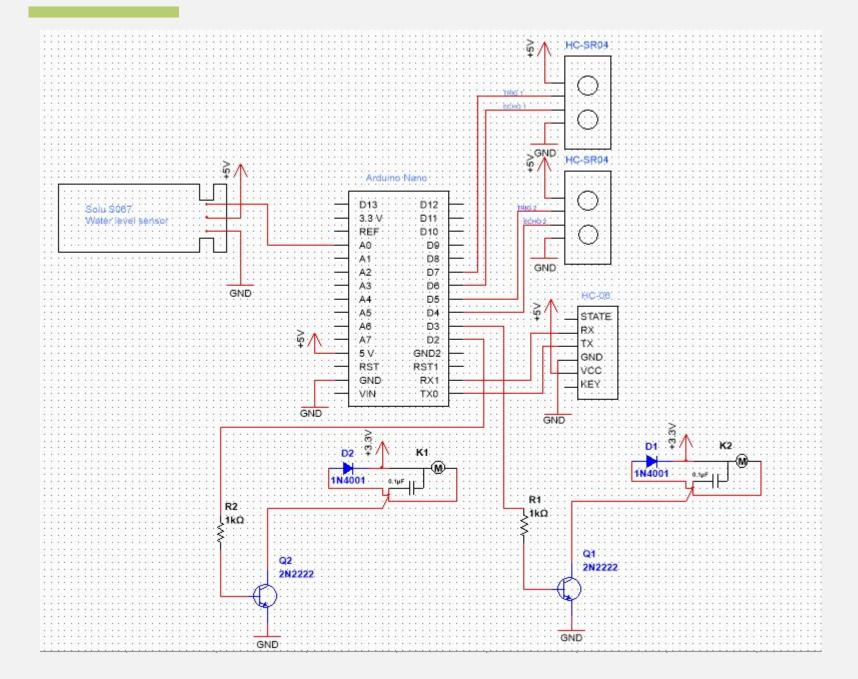
- 1 Human walking
- 2 Wind
- 3 Rain...



Flow of App





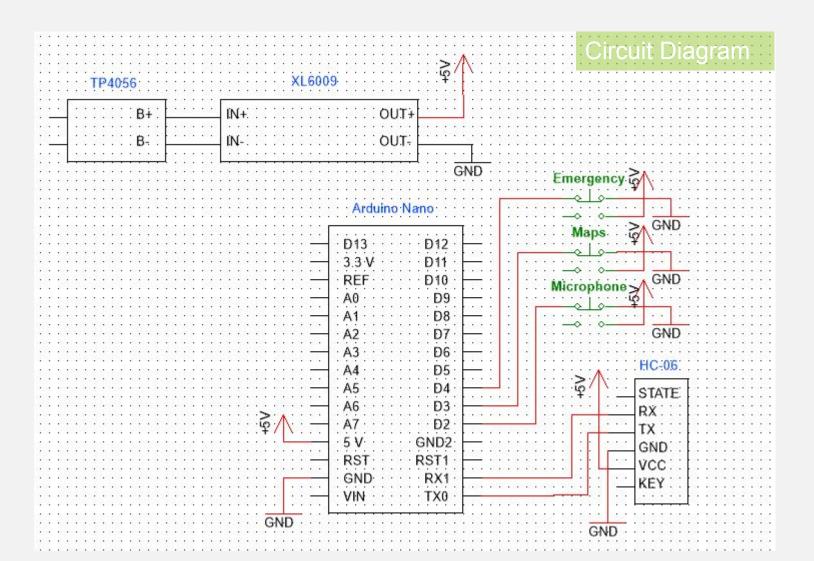


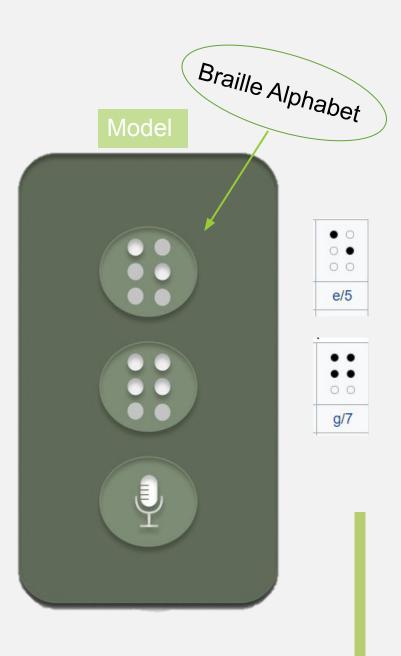
Shoe Module

Devices

- Arduino Nano
- HC-SR04 Ultrasonic sensor
- HC-06 Bluetooth module
- Solu S067 Water level sensor
- Vibrating Motor
- 2N2222 Transistor
- 1N4001 Diode
- 0.1 µF Capacitor
- 1kΩ Resistor

Hand Controller





Thank You!