# Navigation Shopping Cart

Kuan Li (kl3744)
Jui Yu Tseng (jyt258)
Yuhang Lin (yl7094)

# Introduction

**Navigation Shopping Cart is a brand new tool that brings customers a better shopping experience.**

- The smart cart can detect human voice and QR code, and lead the customer to the item's place.
- Through Raspberry pi, we can use many useful Python library, such as OpenCV and Deepspeech.
- Navigation is a process of monitoring and controlling the movement of a vehicle from one place to another.

# Method

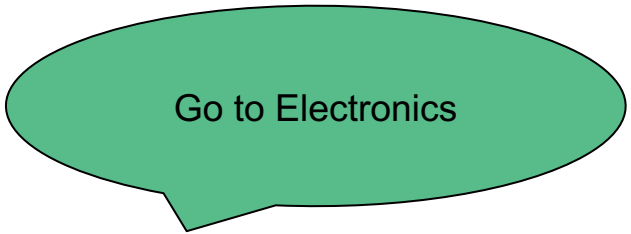
# OpenCV

- OpenCV - Camera, QR code detection and decode
- Ex: Water

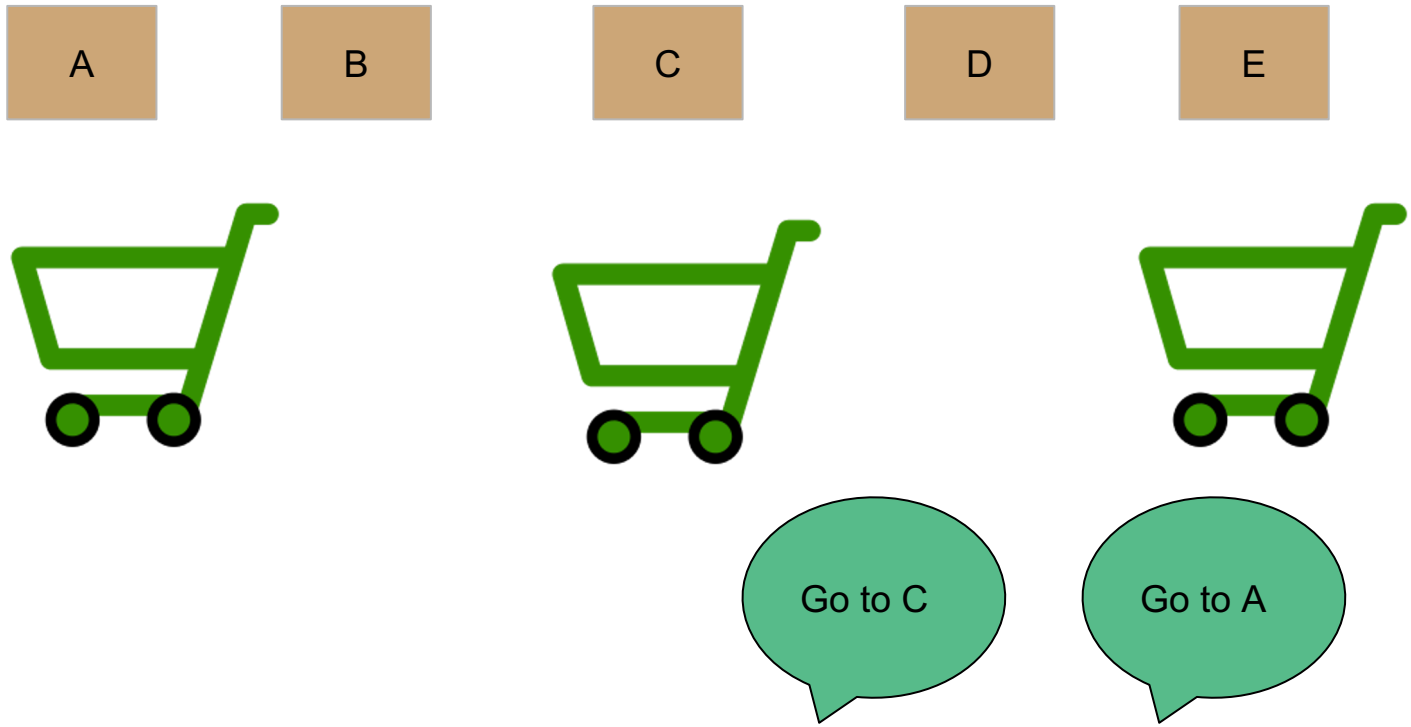
# Deepspeech

- Voice Recognition
- Tensorflow
- Resource Constrained Environment

moz://a

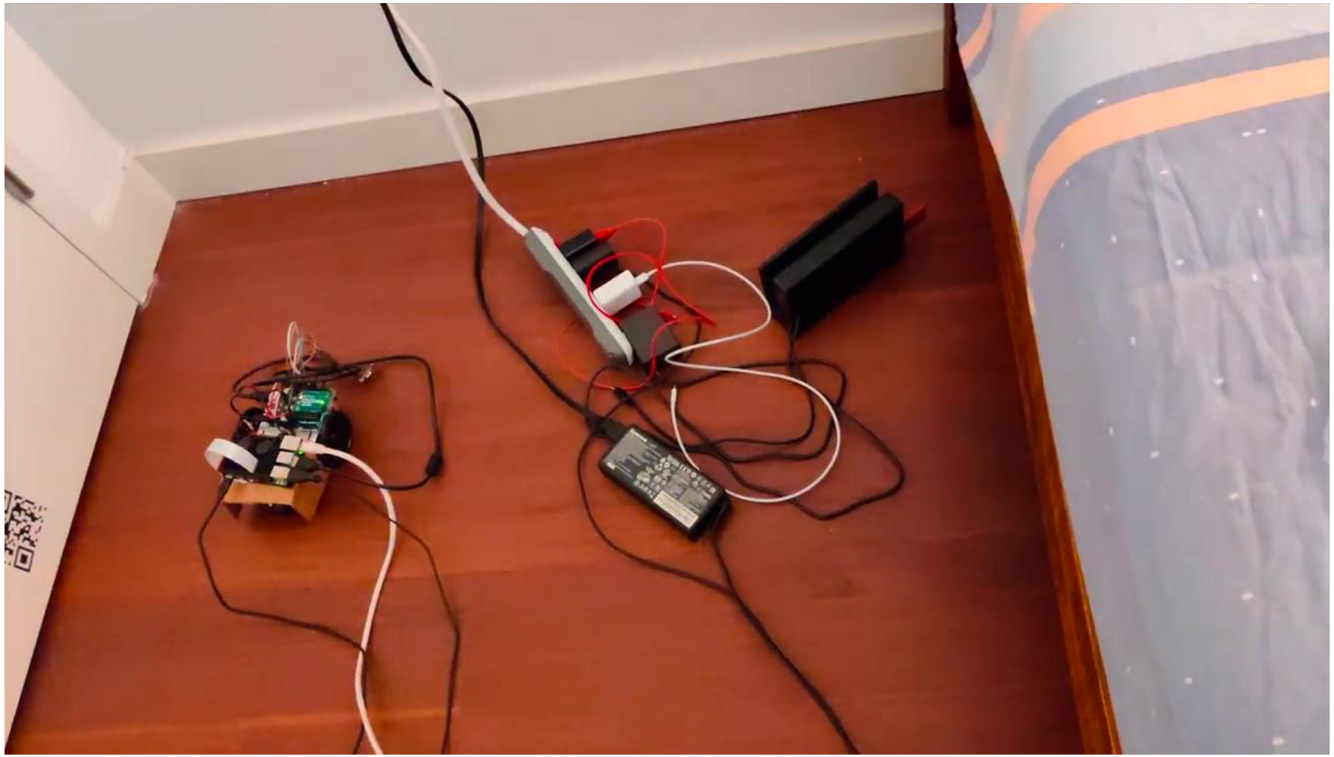


["Go", "to", "Electronics"]


A
B
C
D
E
Go to C
Go to A

# Demo

# Demo



# Possible Future Step

- Using the better microphone
- Line tracking method
- Online voice recognition