Navigation Shopping Cart

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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

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Demo
Possible Future Step

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