

Self-Service Food Ordering Machine

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Outline

- **Idea**

- **Composition & Description**

- Chatbot
- OLED
- Ultrasonic
- Stepping Motor
- PIR Sensor

- **Demo Video**

Idea



This Stuff



Composition & Description

1. Chatbot

- Menu Copied from McDonald's
- Add / Delete items from the cart
- Order through certain pattern. (e.g. 我要X份XXX、新增X份XXX、刪除X份XXX.....、推薦、這樣就好)
- Build two lists for possible request & corresponding actions respectively. (Similar to assignment 4)
- Use TFIDF vector to find similarity => Like keyword search

2. OLED Module

- Welcome signals
- Display the items just ordered
- Show the total amount



3. Ultrasonic Distance Sensor

- Act as a confirmation in checkout procedure.
- Distance < (0.5), means confirmed.
- Then continue to payment. (No implementation here :P)



4. Stepping Motor

- Design to scroll papers for printing invoice.
- Same as the payment part

Cuz lack of fund, lack of time, lack of credits...

No implementation here !!! (¬_¬)



5. PIR Motion Sensor

- Thermal sensing applications
- IR radiation emitted from body will be detected
- Awake the circuit



And this is how it works

Demo Video