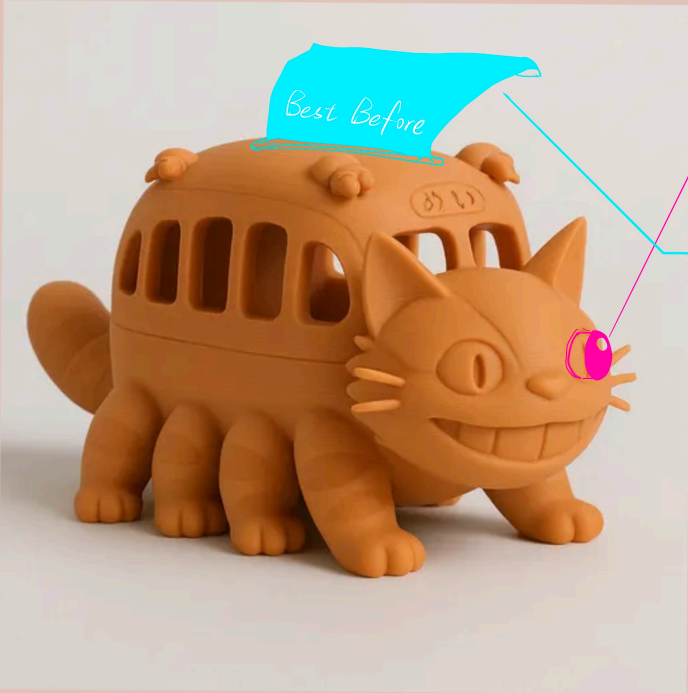


# Nov 24





ESP32

- Scan and Label mo
- ① place a food item under the (USB) camera
- ② press **Add** button
- ③ YOLO model detects the class "tomato"
- ④ Read sensor & compute "Best Before"
- ⑤ Print the label

Tomato  
Added : 2025-11-23  
Best before : 2025-11-28

user tears off the label and sticks it to the container



Add :

- ① Daily Checking & Notifications
- ② Check a Single Item

Press **Check**

the system combines the ID camera & sensor to give RISK

-NodeMCU-32S、ESP32 DevKitC

-DHT11/DHT22[Random Nerd Tutorials+1](#)

-MQ-135 [GitHub+4Instructables+4iotwebplanet.com+4](#)

--printer-- 58mm thermal receipt printer TTL

"Food name + Added + Best Before + ID"

--button--

ADD

CHECK

PRINT

CODE:

1. [https://github.com/surajmohityadav/fruit-defect-detection?utm\\_source=chatgpt.com](https://github.com/surajmohityadav/fruit-defect-detection?utm_source=chatgpt.com)

2. [https://github.com/surajmohityadav/fruit-defect-detection?utm\\_source=chatgpt.com](https://github.com/surajmohityadav/fruit-defect-detection?utm_source=chatgpt.com)

1. Apple/banana/orange--Fresh or Rotten

3. **Fruits' Classification With Orangelib:** <https://olafenwaayoola.medium.com/fruits-classification-with-orangelib-f05852659b91>

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