<https://teachablemachine.withgoogle.com/>

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TARGET1-1 : As a user, I can use the App to distinguish food in Taiwan and know the ingredients and calories and remind me whether I’m healthy or not.

AC :

1. Distinguish food in Taiwan (including local food, Japanese food, Korea food)
   1. Taiwan food 101
   2. other Asia food database recognition
   3. 台灣農會，supermarket
   4. next step would consider distinguish food in Asia
2. User can know the ingredients, including food nutrition, calories
3. Remind the user whether healthy in a week
4. Barcode and food scan
5. kg, cm, ketogenic diet, diabetes, fasting, 168, or any ingredient goal
   1. complicated situation must consult doctor
   2. only provide information not a suggestion (食品署之類的)
   3. alergic
   4. signature before sign in
   5. Check still have other diet method
   6. how to calculate ketogenic diet goal

Nice to have :

1. multiple food simultaneously distinguish
2. Know which food cannot eat in the same time
3. Food attribute - Warm, Hot, Cold food
4. Season recommended food : summer food, winter food
5. Random desert recommend - Link with Google map
6. Information website
7. Marketing - Youtuber cooperate (蒼藍鴿)

TARGET1-2: recognize multiple food within one image

segment anything model (image segmentation → image recognition)

TARGET2: NLP 食物掃條碼評分(紅燈,黃燈,綠燈--> 細節)

1. 內容與方向
2. ingredient tag recognition
3. overall rate for this ingredient label

TECHINICAL DETAIL:

* Flutter, android
* Database
* deploy to AWS

potential issue:

\* model太大, app不好用,如何解決這個問題

RESOURCE:

[image classification model resource](https://github.com/mrdbourke/tensorflow-deep-learning/blob/main/07_food_vision_milestone_project_1.ipynb)

food category sample list

<https://cdn-drbergdocument.azureedge.net/healthy-ketosis-acceptable-foods-list.pdf>