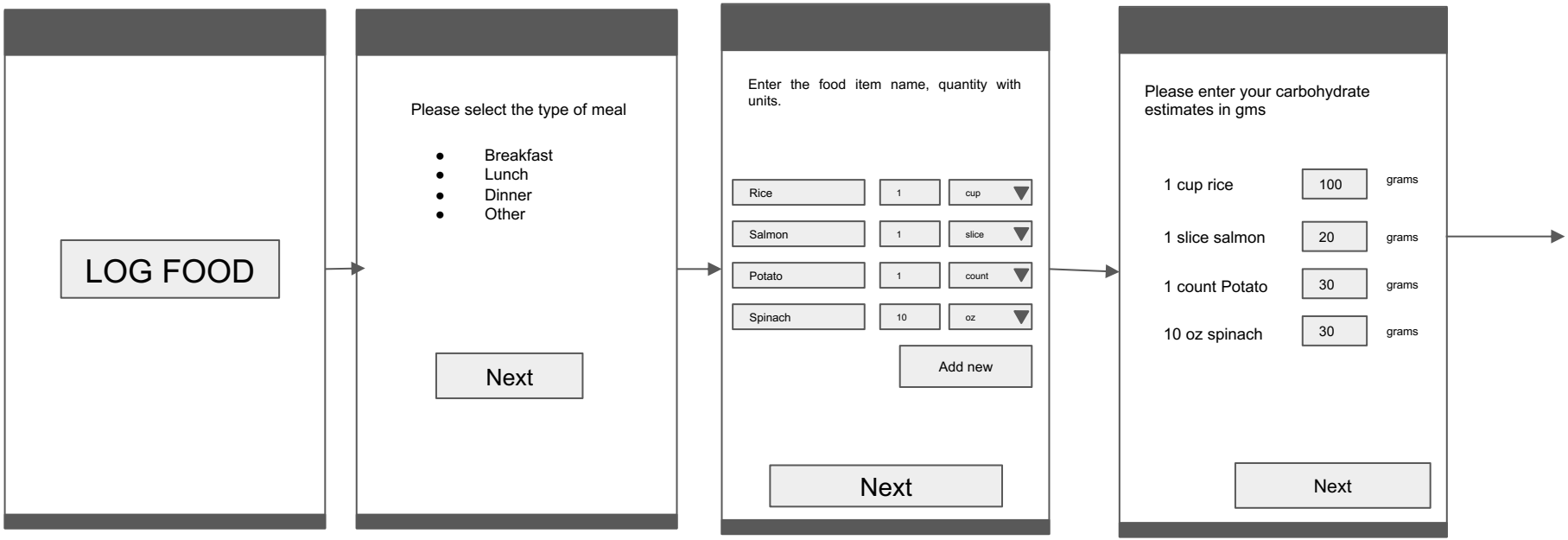
FOOD LOGGING AND VOLUME ESTIMATION

Created on Mar 30

If the volume and unit is not chosen, force the user to choose it.



1 2 3 4

Created on Mar 30

Information from screen 4 and 5 needs to be passed on to API 1.

API 1

Blue, yellow, red are sample colours. Colours need to be dynamically populated based on the output from API

Choose the type of coin:

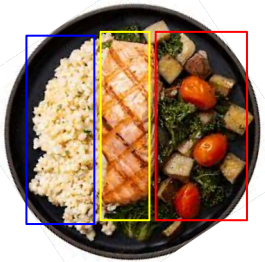
- Cent
- Nickel
- Dime
- Quarter

Top view

Side view

Next

5



This is a multiple select dropdown

Blue Rice

Yellow Salmon

Red Potato, Spinach

Submit

6

API 2

Carbohydrate estimation comparison (in gms)

Food items	App estimate (with image)	App estimate (without image)	Your estimate
Rice	50 gms	60 gms	100 gms
Salmon	20 gms	30 gms	20 gms
Potato	10 gms	20 gms	30 gms
Spinach	10 gms	20 gms	30 gms
Total	X gms	X gms	X gms

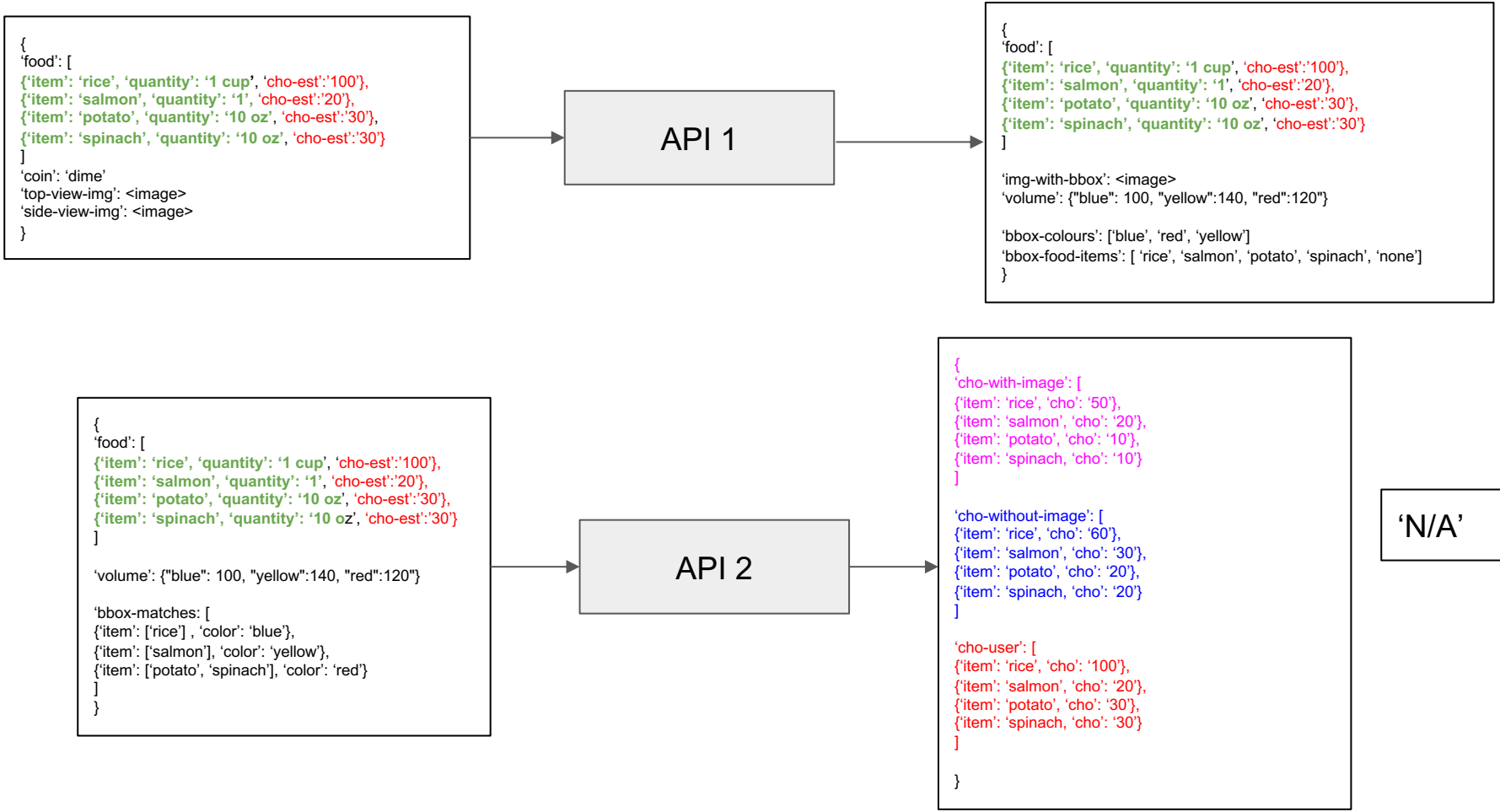
Which of the following estimates are you most likely to use?

- App calculated estimation (with image)
- App calculated estimation (without image)
- My own estimation

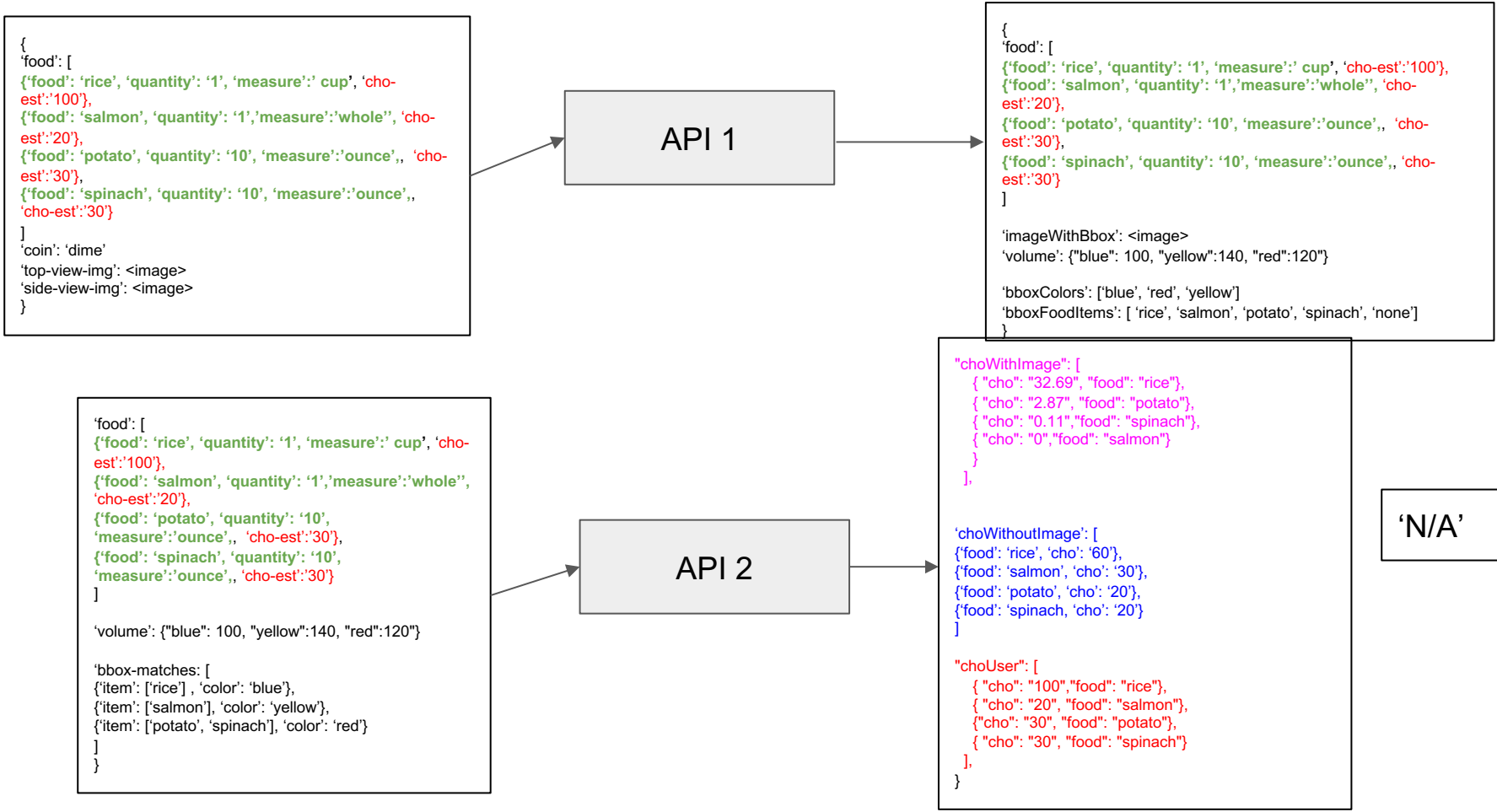
SUBMIT

7

Created on Mar 30

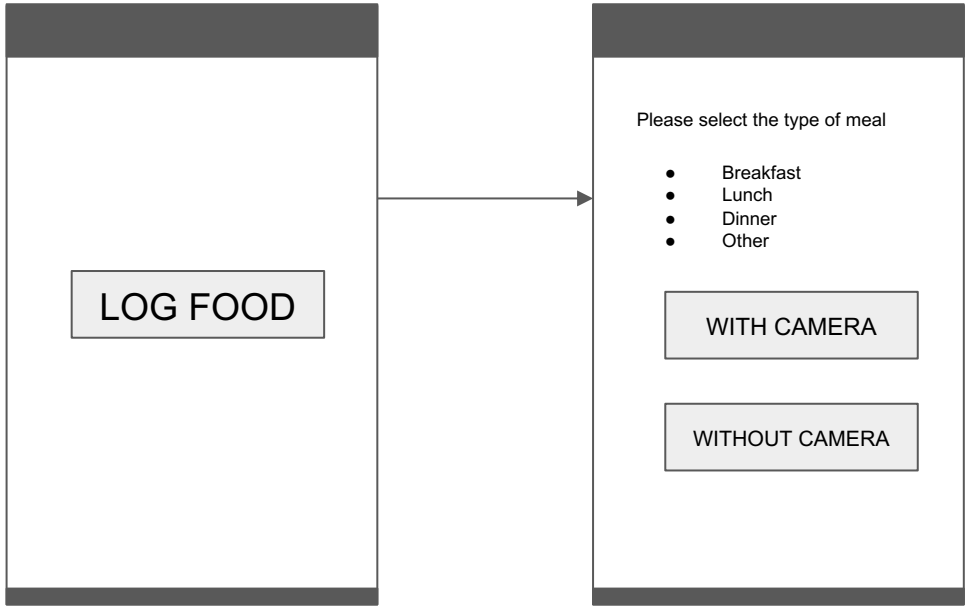


Updated APIs



LEFT BLANK INTENTIONALLY

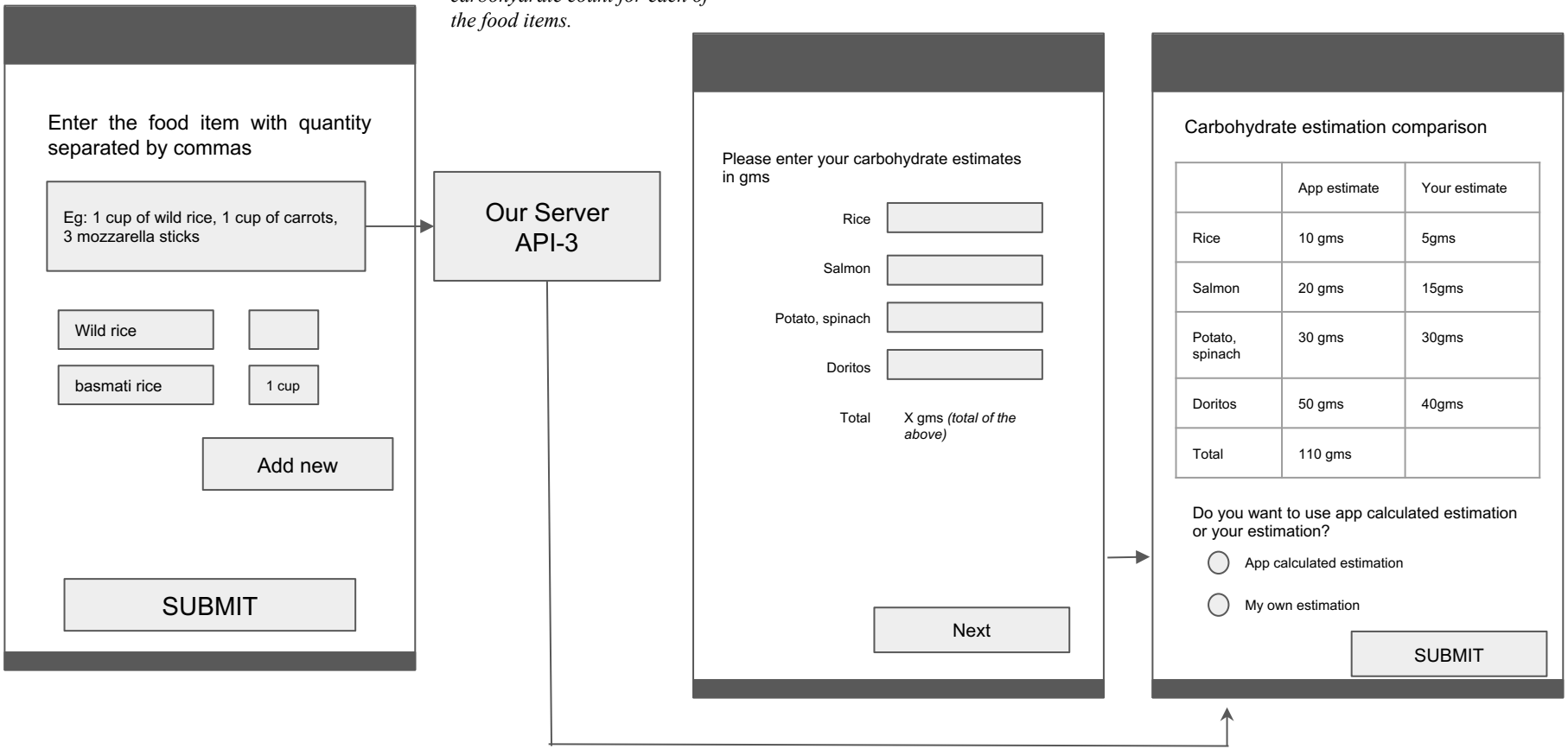
Created on Feb 28



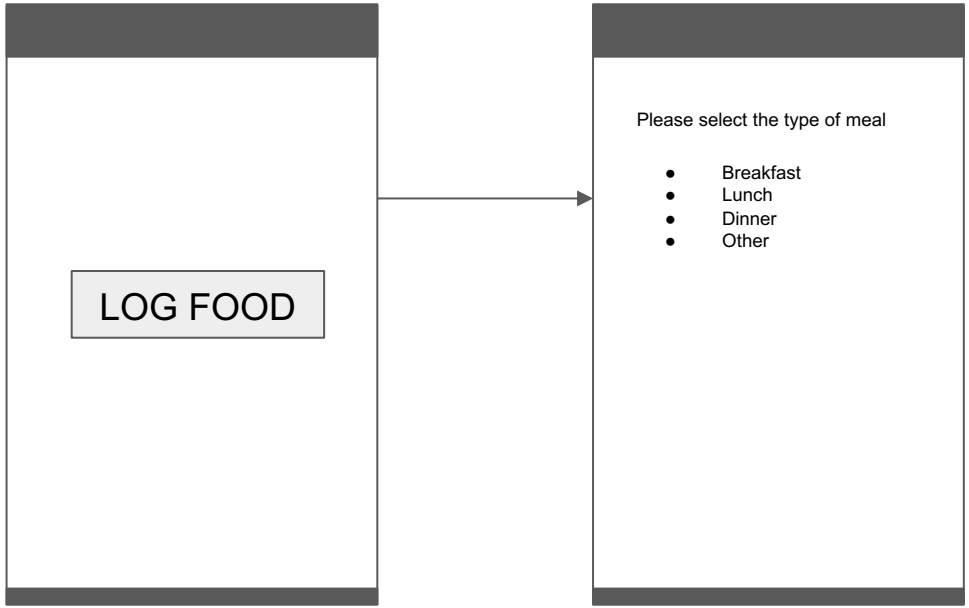
Created on Feb 28

WITHOUT CAMERA

Our API will give the direct carbohydrate count for each of the food items.



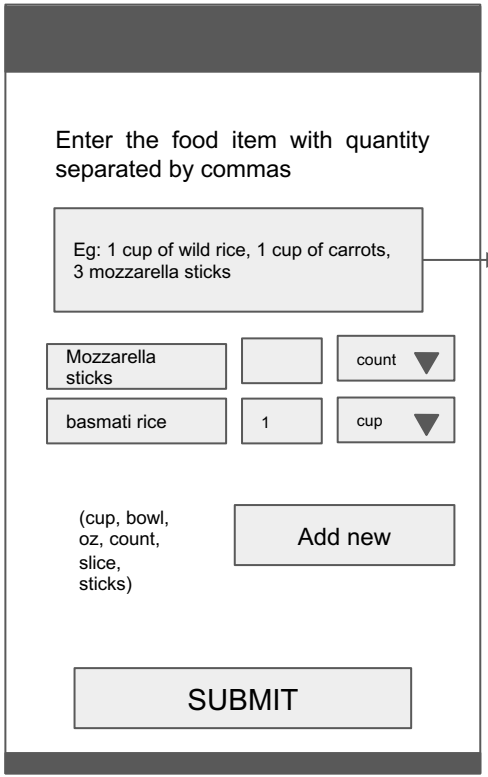
Created on Feb 28

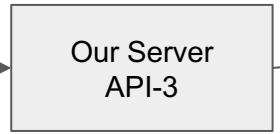


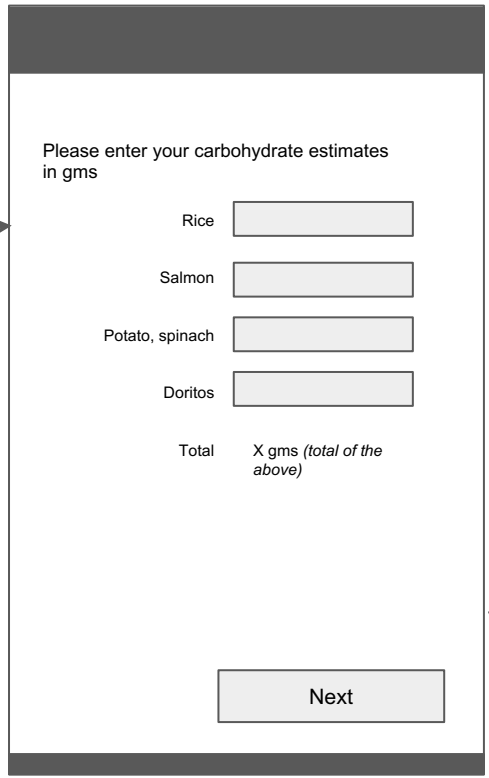
Created on Apr 1

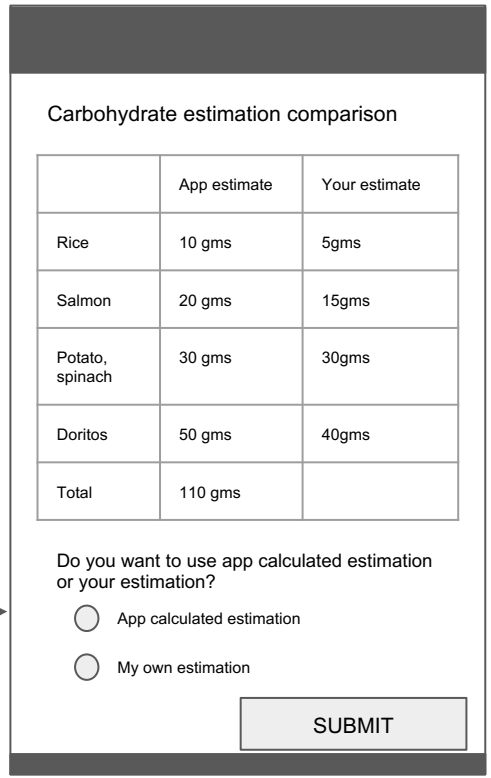
WITHOUT CAMERA

Our API will give the direct carbohydrate count for each of the food items.









Created on Feb 28

WITH CAMERA

Choose the type of coin:

- Cent
- Nickel
- Dime
- Quarter

Top view

Side view

Next

Display as checkboxes

Rice
Cake
Muffin
Fries
Food-x
food-y

Enter the missed food item here separated by comma if any

Salmon, potatoes, spinach, mozzarella sticks

Next

If there are any food item based on count, enter here

- ☐ Rice
- ☐ Salmon
- ☐ Potatoes
- ☐ Spinach
- ☐ Mozzarella sticks

Submit

Our Server (API1)

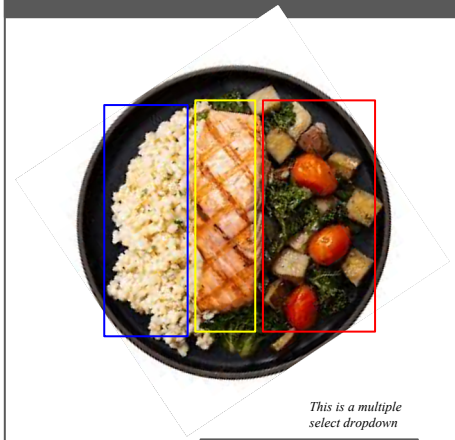
*Call our API with **both the food image, food names and food count (if any)***

Created on Feb 28

WITH CAMERA CNTD..

*Our API returns **image with colour coded bounding box, the colours and the list of food of items***

Call our API with colour mappings and it will return carbohydrate contents of each food item



This is a multiple select dropdown

Blue — Rice

Yellow — Salmon

Red — Potato, Spinach

Submit

If there are any packed food items to scan

<Display the food name after querying open-food-facts>

Or enter the packed food name

Doritos

Volume

Next

Our Server (API2)

Query Openfoodfacts

The app needs to query open-food-facts and calculate the carbohydrate contents

Carbohydrate estimation

Rice	10 gms
Salmon	20 gms
Potato, spinach	30 gms
Doritos	50 gms
Total	110 gms

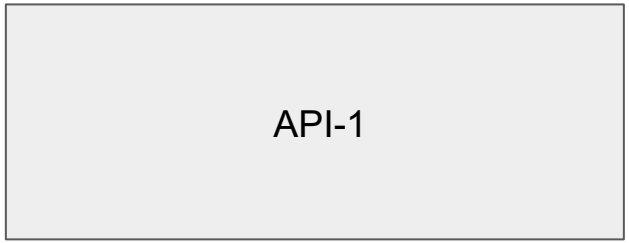
Do you want to use app calculated estimation or your estimation?

- App calculated estimation
- My own estimation

SUBMIT

input

- Image (Photo, top view and Side view)
- Food item name, Count

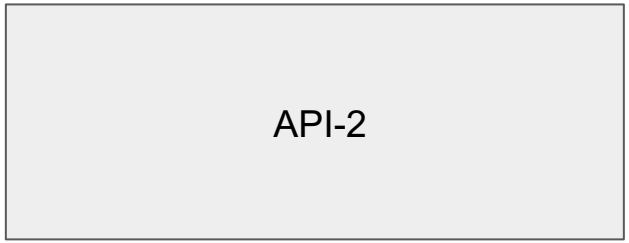


output

- Food Item names
- Colors: [name of the colours]
- Image with bounding box

input

- Colors and Food item mappings
- Colours: Volumes



output

- Food item: Carbohydrate counts

input

- List of food items entered by the user

API-3

output

- Food item:Carbohydrate counts

- List of dict

[{‘item’: ‘rice’, ‘quantity’: ‘1 cup’},
{‘item’: ‘salmon’, ‘quantity’: ‘1’},
{‘item’: ‘potato’, ‘quantity’: ‘10 oz’},
{‘item’: ‘spinach’, ‘quantity’: ‘10 oz’}]

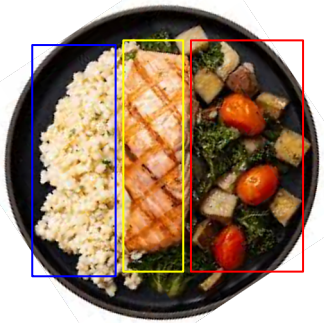
Next action items (with Camera Scenario)

- Demonstration
  - Demonstrate API 1 and API2 with Camera Scenario (Ishan, Revathy) , Slide # 4 - Slide # 7 (Monday January 24, @11:30 AM, EST)
  - HTTP Call (FastAPI, Flask) (Ishan, Revathy)
  - Provide AWS EC2 credentials to Ishan, Revathy (Pankesh)
- Integrate API1 and API2 into Mobile App (Martin)

WITH CAMERA CNTD..

*Our API returns **image with colour coded bounding box, the colours and the list of food of items***

Call our API with colour mappings and it will return carbohydrate contents of each food item



This is a multiple select dropdown

Blue — Rice

Yellow — Salmon

Red — Potato, Spinach

Submit

Our Server (API2)

Please enter your carbohydrate estimates in gms

Rice

Salmon

Potato, spinach

Doritos

Total — X gms *(total of the above)*

Next

Carbohydrate estimation comparison

	App estimate	Your estimate
Rice	10 gms	5gms
Salmon	20 gms	15gms
Potato, spinach	30 gms	30gms
Doritos	50 gms	40gms
Total	110 gms	

Do you want to use app calculated estimation or your estimation?

- App calculated estimation
- My own estimation

SUBMIT