# MyDiet MANAGEMENT PROGRAM

Presented by Pie-Pie-Python Team ( Yan Qin, Qianyi Wu )

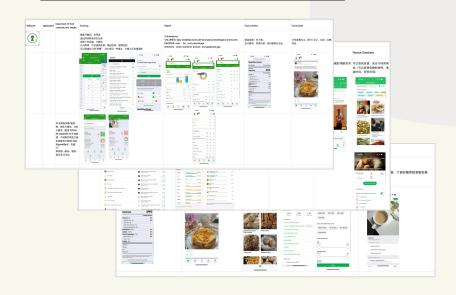


# **Background**

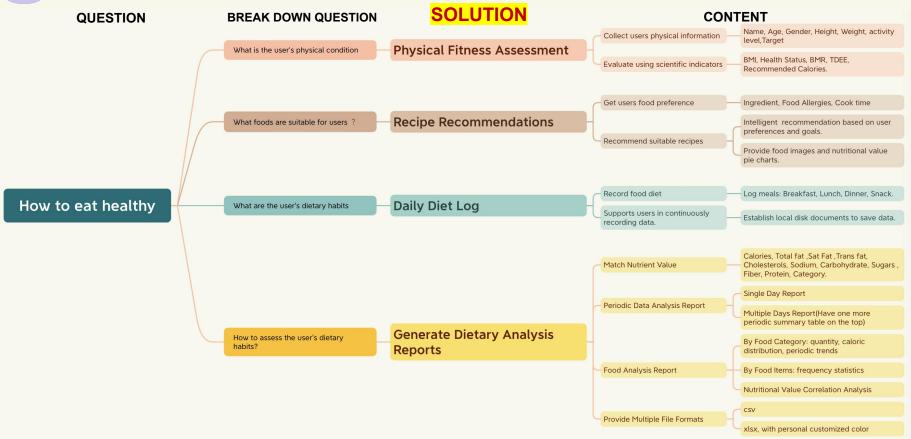
## **Raise Question**



## **Competitive Product Research**









# 1. Physical Fitness Assessment

#### Input physical information Welcome to our health system. Please enter your information: - User Name: Bob - Age: 45 Generate users physical reports **Nutrient Distribution** - User Name: Bob - Gender(Male/Female): Male - Height(in meters): 1.83 - Weight(in kg): 102 Sedentary: Little to no exercise. Spend most of the day seated. Lightly Active: Light exercise for 30 minutes per day, 3-5 times a week. Moderately Active: Moderate exercise for 1 hour per day, 3-5 times a wee Very Active: Intense exercise for 1 hour per day, 5-7 times a week. Extra Active: Intense exercise for at least 2 hours every day. Protein: - Choose your activity level: Target(lose weight/maintain weight/muscle building): lose weight - Health Status: Obesity Nutrient Intake - TDEE: 2332.5 - Recommended Calories: 1866.0 175 TDEE vs Recommended Calories Report 150 125 g 100 -25 -

## Collect Users Physical Information

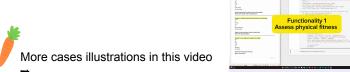
Information includes : Name, Age, Gender, Height, Weight, Activity level, Target

## Evaluate Using Scientific Indicators

Use the information to calculate scientific physical index: BMI, Health Status, BMR, TDEE, Recommended nutrient (Calories, Carb, Protein and Fat).

## Generate Physical fitness Report

In addition to physical health indicators, report use **Bar charts** and **Pie charts** for clear and immediate user understanding.



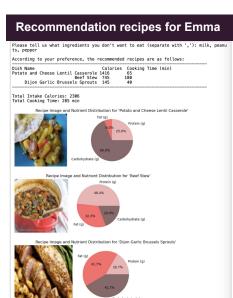


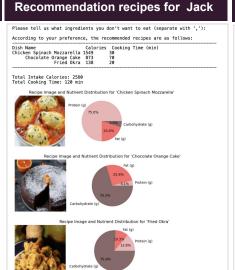
# 2. Recipe Recommendations

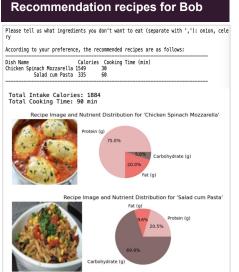
# Input Physical Information In [\*]: recommended\_recipe(recommended\_calories) Please tell us what ingredients you don't want to eat (separate with ','): onion, celery

## Input The Food Preference

- Users can entry multiple foods
- Generate Recipe Recommendation
- The recommendations of recipe based on physical fitness index and food preference
- · Food pictures can gain users' goodwill.
- Pie chart data increase the credibility of recommendations.











# 3. Daily diet Log

#### Log food of each meals

#### Record food diet

- input date, meals, food name
- Meals: Breakfast, Lunch, Dinner, Snack.

## Supports continuously Log Meals

Establish local disk documents to save data.

Fi	iret	day	/ loa
	ΠOL	uav	/ IUU

#### Second day log

#### Third day log

2024/4/10 Snack

A	В	С	D	4	A	В	C	D	4	A	В	C	D
				1	User_Name	Date	Meal	Food_items	1	User_Name	Date	Meal	Food_items
er_Name	Date	Meal	Food_items	2	John Doe	2024/4/1	Breakfast	American Cheese	2	John Doe	2024/4/8	Breakfast	American Cheese
hn Doe	2024/4/8	Breakfast	American Cheese	3	John Doe	2024/4/1	Breakfast	Banana Peppers	3	John Doc	2004/4/8	Breakfast	Banana Peppers
hn Doe	2024/4/8	Breakfast	Banana Peppers	4	John Doe	2024/4/1	3 Lunch	Black Forest Ham	4	John Doe	2024/4/8	Lunch	Black Forest Ham
hn Doe	2024/4/8	Lunch	Black Forest Ham	5	John Doe	2024/4/1	B Dinner	Cheese Lava Burger	5	John Doe	2024/4/8		Cheese Lava Burge
hn Doe	2024/4/8	Dinner	Cheese Lava Burger	6	John Doe	2024/4/1	3 Dinner	chinese_fried_rice	6	John Doe	2024/4/8	Dinner	chinese_fried_rice
hn Doe	2024/4/8	Dinner	chinese fried rice	7	John Doe	2024/4/1	Snack	Puddings	7	John Doc	2024/4/8	Snack	Puddings
hn Doe	2024/4/8		Puddings	8	Peter	2024/4/9	Breakfast	blueberry yogurt	8	Peter	2024/4/9	Breakfast	blueberry yogurt
iii Doc	2024/4/6	SHUCK	ruddings	9	Peter	2024/4/5		Grilled Cheese	Θ	Peter	2024/4/9		Grilled Cheese
				10	Peter	2024/4/9		Pizza Sub	10	Peter	2024/4/9		Pizza Sub
				11	Peter	2024/4/9	Dinner	Mc chicken Burger	11	Peter	2024/4/9		Mc chicken Burger
				12	Peter	2024/4/5	Dinner	Oven Roasted Chicken	12	Peter	2024/4/9		Oven Roasted Chie
				13	Peter	2024/4/9	Snack .	cake	13	Peter	2024/4/9		cake
				14					14	wilson	2024/4/10		Eag & Cheese
				15					15	wilson	2024/4/10		English Breakfast
				16					16	wilson	2024/4/10		Double ShackBurn
									17	wilson	2024/4/10		Double Vanilla Cu
									18	wilson	2024/4/10		Regular Fries
										wilson	2024/4/10		Regular Pries



#### More cases illustrations in this video ⇒







# 4. Dietary Analysis Reports

#### **Periodic Analysis Report**

- Single Day Report (basic version)
- User name, start date, end date
- Total nutritional value of each meal
- Each nutritional value of each food
- Total nutritional value of a day
- Recommended calorie completion rate
- Multiple days Report (upgrade version)
- Firstly display a periodic summary table on the top.
- Then print every single day.

#### **Multiple File Formats**

- CSV file
- XLSX file (Users can choose color template)

#### **Match Nutrient Value**

Date:2024-0										
		Total fat (g	Sat Fat (g)	Trans fat (		Sodium (mg		Sugars (g)	Fiber(g)	Protein (g)
Breakfast	281	11	6	0	53	743	29	2	0	16
-Sausage A	281	11	6	0	53	743	29	2	0	16
Lunch	798	30	6	0	76	1384	104	3	7	27
-chinese_fi	348	5	1	0	36	774	66	1	2	8
-Tuna	450	25	5	0	40	610	38	2	5	19
Dinner	80	2	2	0	0	2	14	0	15	4
-Vegetable	80	2	2	0	0	2	14	0	15	4
Snack	104	0	0	0	0	5	25	19	2	2
-blueberrie	57	0	0	0	0	1	14	10	2	1
-orange	47	0	0	0	0	4	11	9	0	1
Total	1263	43	14	0	129	2134	172	24	24	49
% Of my ta	70%	6%	No Target	No Target	43%	92%	21%	No Target	96%	13%

Example 1: Single day csv file

	Calories		Cas Das /a	Tanna Cat	Chalaster	Sodium (rr	Carloshad	C		Protein (q
2024-03-25	1263	43	3dt Pdt (g	0	129	2134	172	24	24	49
2024-03-26	1864	79	18	1	152	1874	191	33	28	82
2024-03-27	1120	25	10	0	164	2860	170	20	14	50
Total	5638	214	71	3	779	10250	634	95	76	270
Total	3036	214	74	,	119	10230	0.54	73	70	2/0
Date:2024-03-25									and ()	
Breakfast	Calories 281	Total fat		Trans fat		Sodium (rr 743	Carbohyd 29	Sugars (g)	Piber(g)	Protein (g)
			6	0	53			2	0	
Sausage Mc Muffin v		11			53	743	29		7	16
Lunch	798	30	6	0	76	1384	104	3		27
chinese_fried_rice	348	5		0	36	774	66		2	8
Tuna	450	25	5	0	40	610	38	2	5	19
Dinner	80	2		0	0	2	14		15	4
-Vegetable	80	2		0	0	2	14		15	4
Snack	104	0		0	0	5	25	19	2	2
-blueberries	57	0		0	0	1	14		2	1
-orange	47	0		0	0	4	11	9	0	1
Total	1263	43	14	0	129	2134	172	24	24	49
% Of my target	70%	6%	No Target	No Target	43%	92%	21%	No Target	96%	13%
Date:2024-03-26										
						Sodium (rr				Protein (g)
Breakfast	212	3	1	0	10	125	34	0	14	14
Low Fat Milk	110	2		0	10	125	14		14	10
-whole-wheat-bread	102	1	0	0	0		20		0	4
Lunch	1390	73	16	1	133	1626	111	23	12	55
-Pancakes	250	9		0	10	8	28		7	7
-sour pork	540	27	5	0	48	608	47	21	2	18
Tuna Fresh Melt	600	37	11	1	75	1010	36		3	30
Dinner	0	0	0	0	0	0	0	0	0	0
Snack	262	3	1	0	9	123	46	10	2	13
strawberry yogurt	160	2	1	0	9	123	26	10	2	9
whole-wheat-bread	102	1	0	0	0	0	20	0	0	4
Total	1864	79	18	1	152	1874	191	33	28	82
% Of my target	103%	12%	No Target	No Target	50%	81%	23%	No Target	112%	22%
Date:2024-03-27										
						Sodium (rr				Protein (g)
Breakfast	220	9	- 4	0	25	255	27	5	8	10
-Bacon	70	6	2	0	15	250	1	0	1	5
Outmeal	150	3	2	0	10	5	26	5	7	5
Lunch	282	12	5	0	130	642	23	3	0	16
tacco	282	12	5	0	130	642	23	3	0	16
Dinner	356	1	0	0	0	1840	74	2	4	11
Janpanese noodles	356	1	0	0	0	1840	74	2	4	11
Snack	262	3		0	9	123	46		2	13
-mango vogurt	160	2		0	9	123	26		2	9
				0						

% Of my target

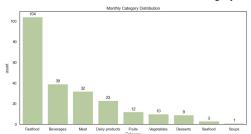
Example 2: Multiple days xlsx file



# 4. Dietary Analysis Report (Food Analysis Report)

#### **Bar Chart**

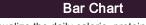
Show number of food items in each category



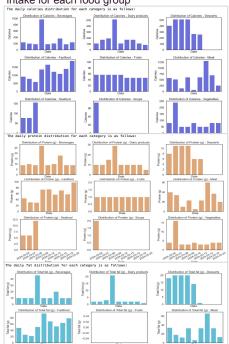
### WordClouding

Visualize the foods that appear most frequently



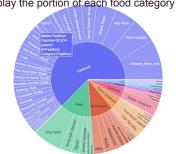


· Visualize the daily calorie, protein, and fat intake for each food group



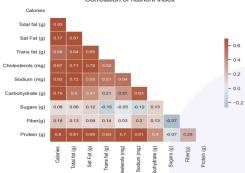
#### **Sunbrust Chart**

· Display the portion of each food category



## **Correlation Heatmap**

• Display the correlationship between nutrients Correlation of nutrient index



# **Highlights**



# **Graphical Data Reports**

Offering data analysis with 7 chart types for clear insights



# **Establish fully functional website**

Optimize the algorithmic models

Build the front-end pages, set API

Expand database





# **Personalized Services**

- Personalized services based on dietary preferences and goals
- customizable report styles



#### continuously train the models with user feedback data

add multi-dimensional monitoring indicators such as

exercise, weight tracking, sleep, etc.,



# **Diverse User Experience**

 From data input to report download, offering versatile choices for a convenient user experience

# Develop a social feature for diet



 Upload recipes, share recipes, content sharing, and interactions such as likes

# **THANKS**

Presented by Pie-Pie-Python Team

# **Division of work:**

Yan Qin: Function 3 & Function 4 Qianyi Wu: Function 1 & Function 2

