Personalized
Nutrition
Recommendation
System

GROUP 14

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#### Main idea

- 讓使用者記錄自己每天的飲食
- 計算使用者每天、每週攝取的營養成分含量
- 針對使用者的身體數值給予營養攝取的建議

### Dataset 4

- Our datasets
- Calorie:

food Caloric\_Value

Carbon\_Sugar:

<u>food</u> Carbohydrates Sugars

• Dietary\_Fiber\_Cholesterol:

<u>food</u> Dietary\_Fiber Cholesterol

# Dataset

• Mineral:

food	Sodium	Calcium	Copper	Iron
Manganese	Phosphorus	Potassium	Selenium	Zinc

• Fat:

food	Fat	Saturated Fats	Monounsaturated_Fats	Polyunsaturated Fats
				<u> </u>

#### Dataset

Nutrition Density:

food Nutrition\_Density

• Water:

<u>food</u> Water

• Protein:

<u>food</u> Protein

• Vitamin:

<u>food</u>	Vitamin _A	Vitamin _B1	Vitamin_ B11	Vitamin_ B12	Vitamin_E	32
Vitamin	Vitamin	Vitamin	Vitamin_	Vitamin_	Vitamin_	Vitamin
_B3	_B5	_B6	C	D	E	_K

# Database 4

#### • 我們將datasets的資料合併成foods:

food	Caloric_Value	Carbohydrates	Sugars	Dietary_Fiber	Cholesterol	Fat
Saturated _Fats	Monounsaturated _Fats	Polyunsaturated _Fats	Sodium	Calcium	Copper	Iron
Magnesium	Manganese	Phosphorus	Potassium	Selenium	Zinc	Nutrition_ Density
Protein	Vitamin_A	Vitamin_B1	Vitamin_B2	Vitamin_B3	Vitamin_B5	Vitamin_B6
Vitamin_B11	Vitamin_B12	Vitamin_C	Vitamin_D	Vitamin_E	Vitamin_K	Water

# Database

• Example of foods:

5.1   0 40.1   19.5 0.4   0 11.6   10.9 15.2   0	Dietary_Fiber 0 12.1 0.077 0.7	Cholesterol 72.3 0 0 0	0.6 0.2 0.052 0.7	Saturated_Fats 0.1 0.065 0.074 0.2	Monounsaturated_Fats 0.02 0 0.086 0.2	Polyunsaturated_Fats   0.091   0 0.036   0.2	0.3 0.093 0.088 0.082
40.1   19.5 0.4   0 11.6   10.9	0.077	0	0.2 0.052 0.7	0.065 0.074	0	0 0.036	0.093 0.088
0.4   0 11.6   10.9	0.077	0   0   0	0.052 0.7	0.074	0 0.086 0.2	1	0.088
11.6   10.9	3	0 0	0.7		0.086 0.2	1	
	0.7	[ 0		0.2	0.2	1 0.2 1	0.082
15.2   0	i .						
20.2	0	0	8.9	1.2	5.6	1.7	0
68.3   0	0	0	37.7	4.9	23.9	7.3	0
11.5   0	0	0	6.8	0.9	4.3	1.3	0
29.9 0	9	0	0.3	0.023	0.072	0.1	0.5
44.9   0	6.5	0	0.4	0.091	0.086	0.2	0.017
53.6 5.8	3.7	0	60.2	8.4	43.1	5.9	49.4
	29.9 0 44.9 0	29.9 0 9 44.9 0 6.5	29.9 0 9 0 44.9 0 6.5 0	29.9 0 9 0 0.3 44.9 0 0.4 6.5 0 0.4	29.9 0 9 0 0.3 0.023 44.9 0 6.5 0 0.4 0.091	29.9 0 9 0 0.3 0.023 0.072 44.9 0 6.5 0 0.4 0.091 0.086	29.9 0 9 0 0.3 0.023 0.072 0.1 44.9 0 6.5 0 0.4 0.091 0.086 0.2



ВМІ	身體質量指數
BMR	基礎代謝率
TDEE	總熱量消耗

customers:

user_id name password	workout frequency	weight height	age
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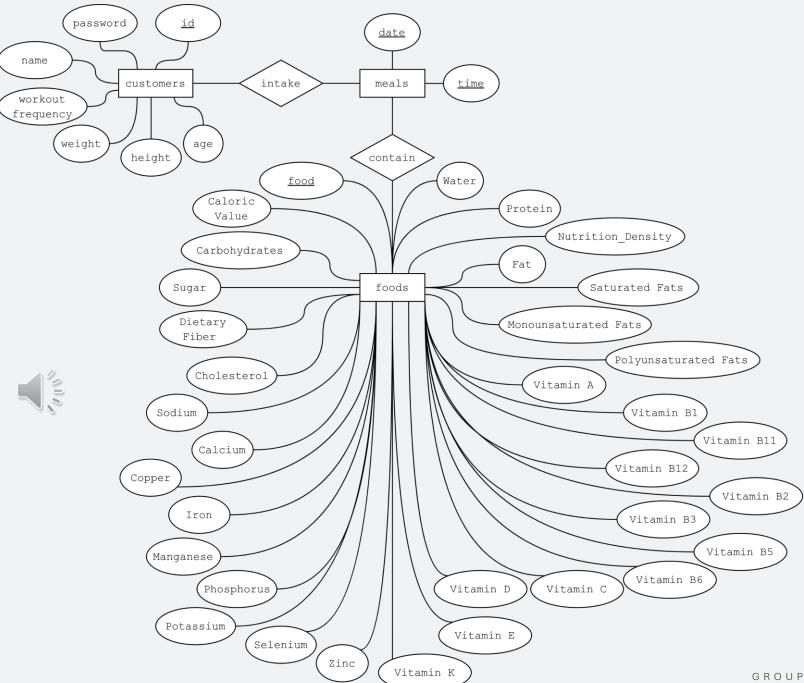
• Example of customers:

### Database 4

• meals:

user id	date	time	food
usci_iu	<u>uatt</u>		1000

• Example of meals:



# Database ER model

## Function of application

- Sign in and Log in:建立使用者資料、記錄於資料庫
- Your Profile:修改個人資料、身體數值
- Food Information:搜尋食物、顯示各項attribute
- Diet Record:搜尋食物、將食物加入清單
- Diet Suggestion:檢視每天、每周攝取的營養數值

#### Contribution of each team member



曾歆喬	database and SOI	Drocontation	
陳奕潔	database and SQL	Presentation	Donart
黃襄香	website and flask	Domo	Report
陳宥臻	WEDSILE allU Hask	Demo	