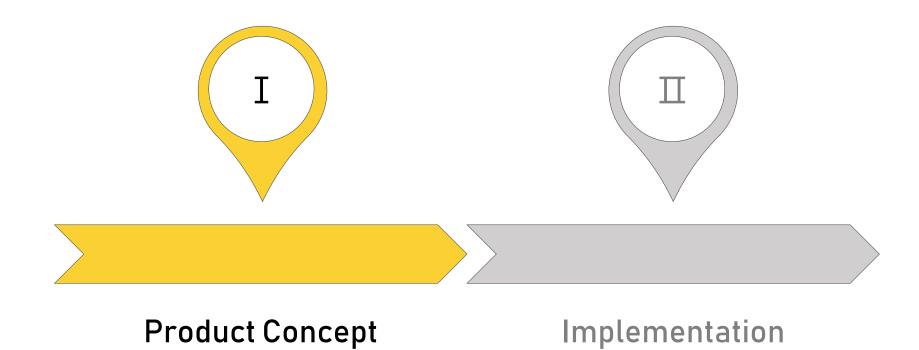


CAPSTONE DESIGN

Daily Care & Dieter

Portfolio by Choi, Yong Gyu





Food recognition by image



A variety of app functions



Weighing with smart plates

This product is complementing the limits of smart plate and combined with diet application



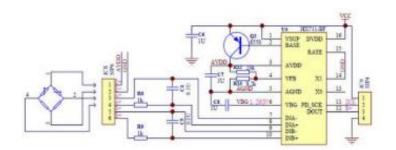


Product Concept

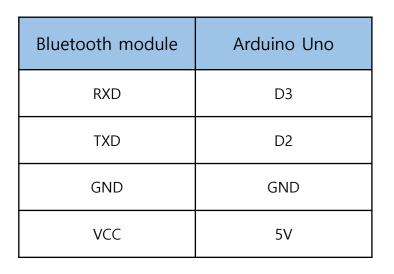
Implementation

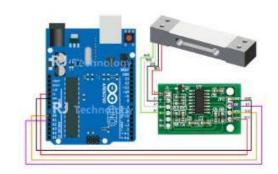
- System Diagram
- Core Function
- Function List

Hardware System Diagram



• Schematic weight Sensor Amp





Schematic of Arduino and load cell

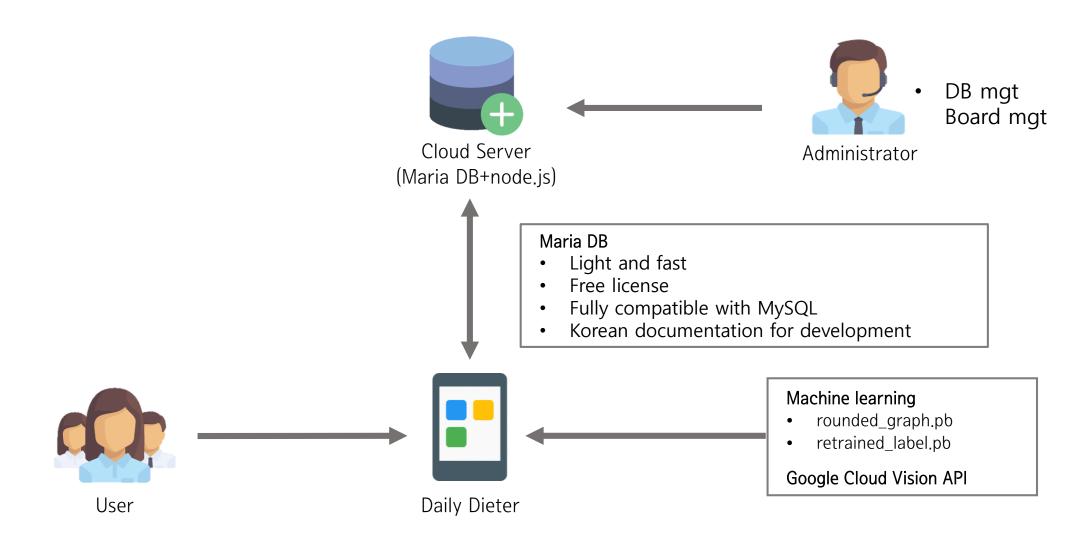
Load cell	Load cell amp
Black	E+
Red	E-
White	A-
Green	A+

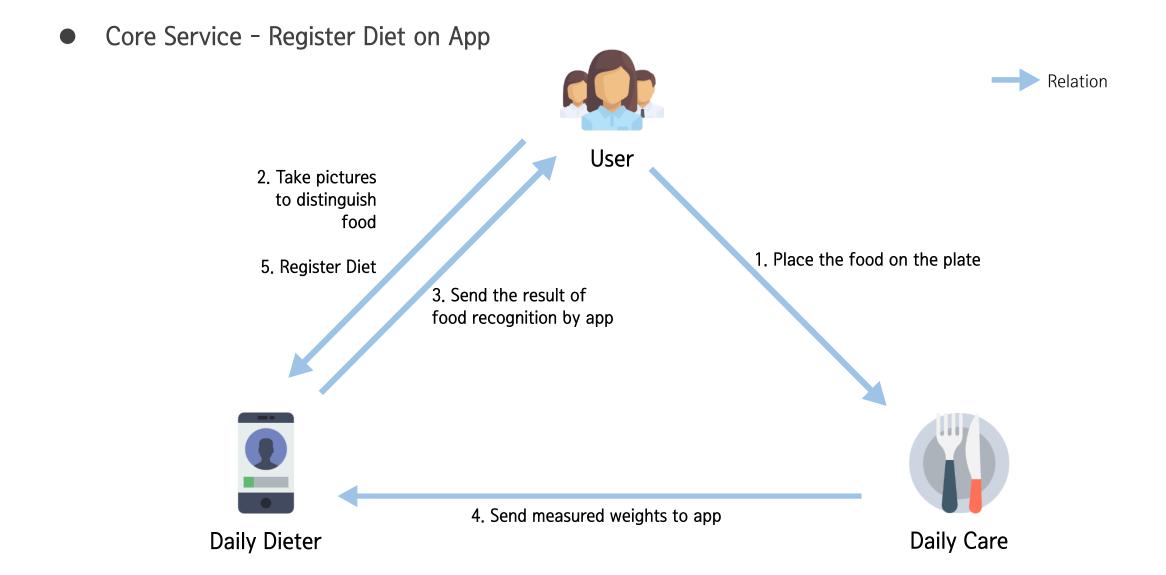


Final Product

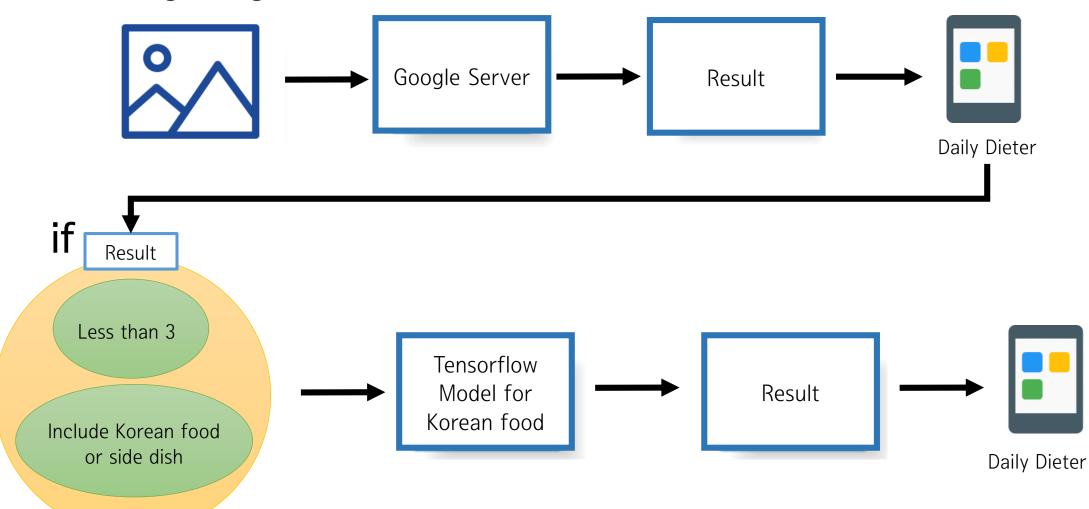
Load cell amp	Arduino Uno
VCC	5V
GDN	GND
DT	3 PIN
SCK	2 PIN

Software System Diagram



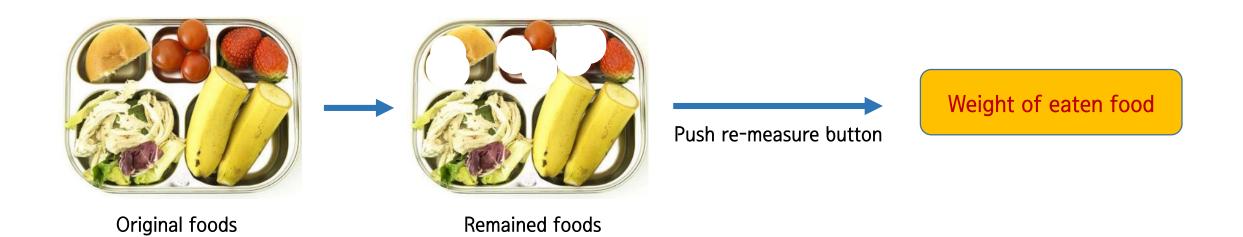






Weight Policy of Daily Care(IoT Device)





Function List

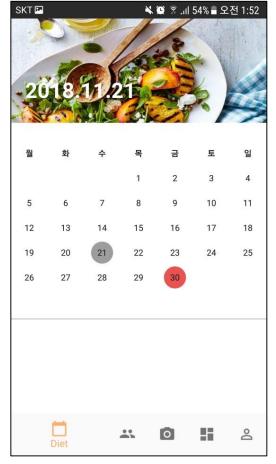
Personal Functions of Daily Dieter

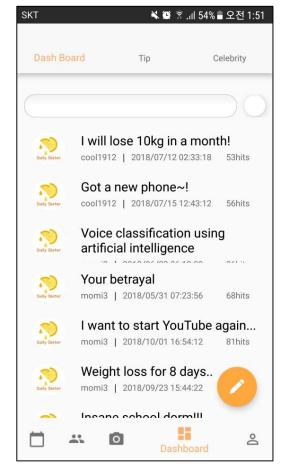
Function	Implementation	Function	Implementation
UC01: User registration	0	UC10: Check calorie and nutrient statistics	Ο
UC02: Login & Logout	0	UC11: Notice deficient nutrients	Ο
UC03: Diet diary registration, update, delete	0	UC12: Read the post & add to wish-list	0
UC04: Taking picture	0	UC13: Registration, update, delete the post and photo	Ο
UC05: Select image	0	UC14: Reading diet of celebrity & add to wish-list	0
UC06: Select proper food	0	UC15: Reading tip & add to wish-list	Ο
UC07: Input food name	0	UC16: Searching diet or tip	0
UC08: Weighing	0	UC20: My page	Ο
UC09: Re-measure the weight	0	UC21: Connecting to blue-tooth	0

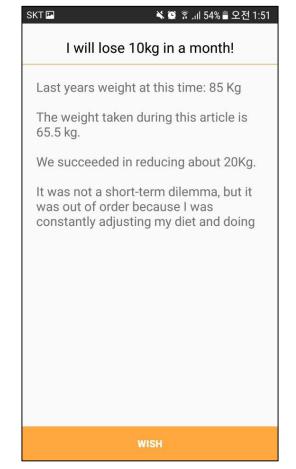
Group Functions of Daily Dieter

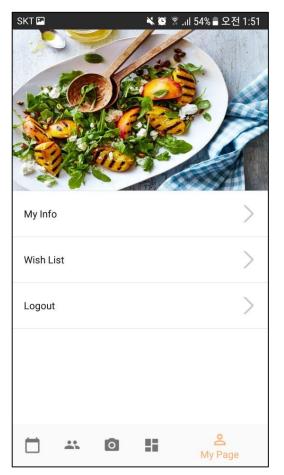
Function	Implementation
UC17: Creating group & participation	0
UC18: Set group goal & mission	0
UC19: Group chatting	0

Screens





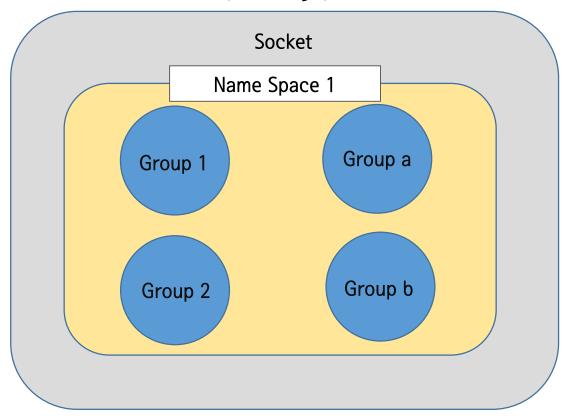




Initial Screen Post Screen Selected Post My Page

Community - Chatting

Socket.io(Node.js) - Structure



- Characteristic
- Is not mixed with other group's message
- Is stored on database using the group name



Thank you