



# CalBalance

A SYSTEM TRACK OVERALL WELL-BEING BY ESTIMATING CALORIE INTAKE AND EXPENDITURE

Yicheng Yang

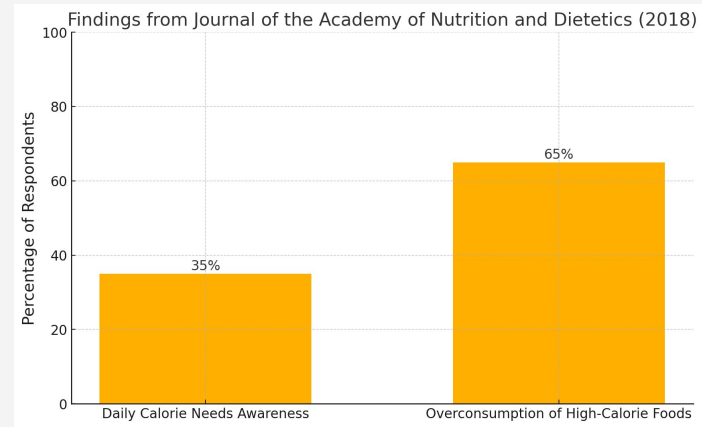
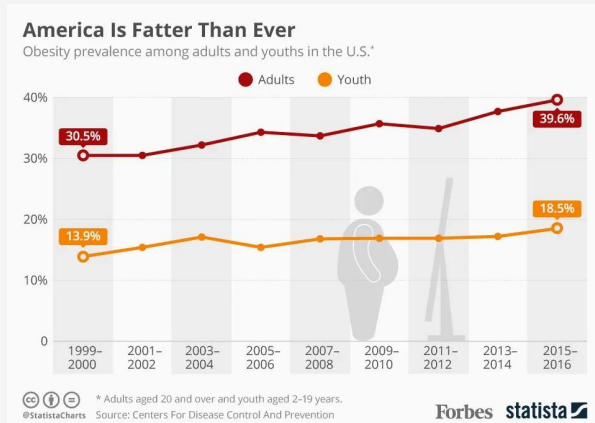
Yang Jiao

Tianyu Peng

# Problem statement

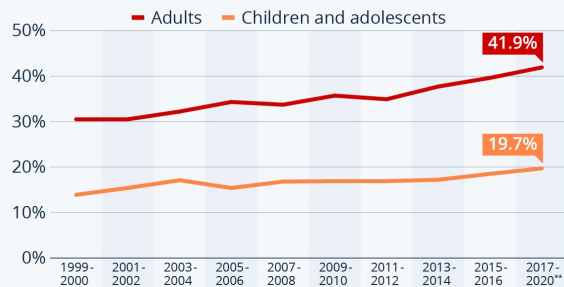
*Obesity rates* in the United States have been climbing at an alarming rate, despite growing awareness about fitness and healthy eating.

A study revealed that many Americans are unaware of their daily calorie needs, with a significant number of over consuming high-calorie foods containing refined grains, added sugars, and fats.



## America's Rising Obesity Problem

Prevalence of obesity among adults and children/adolescents in the United States\*



\* Adults aged 20 and over, children and adolescents aged 2-19

\*\* Partial data collection in 2019-2020 cycle combined with 2017-2018 data for nationally representative estimates

Source: Centers For Disease Control and Prevention



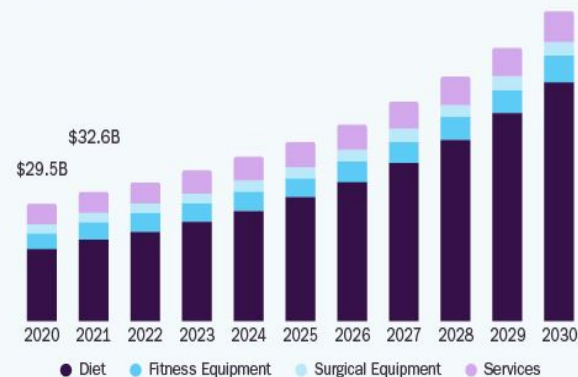
statista



# Marketing

## U.S. Weight Management Market

Size, by Function, 2020 - 2030 (USD Billion)



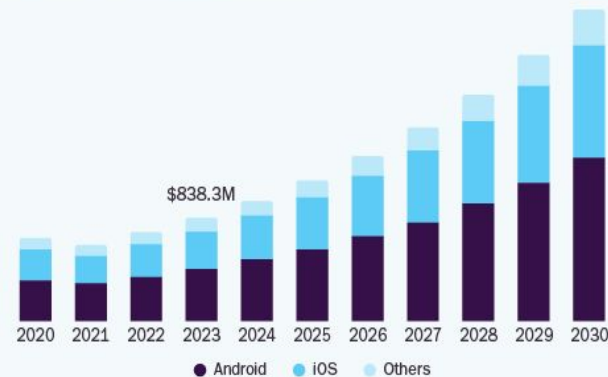
**10.6%**

U.S. Market CAGR,  
2023 - 2030

Source:  
[www.grandviewresearch.com](http://www.grandviewresearch.com)

## Exercise & Weight Loss Apps Market Size

by Platform, 2020 - 2030 (USD Million)



**17.3%**

Global Market CAGR,  
2024 - 2030

Source:  
[www.grandviewresearch.com](http://www.grandviewresearch.com)



# Purpose of ideal

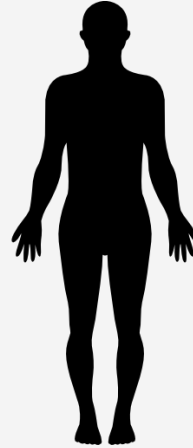
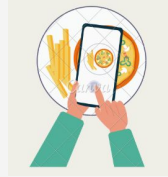
Simplifying calorie tracking for individuals who find it challenging  
Developing a user-friendly platform to:

- Calculate daily calorie intake and consumption.
- Assist users in managing their diet and exercise track effectively



# How it works

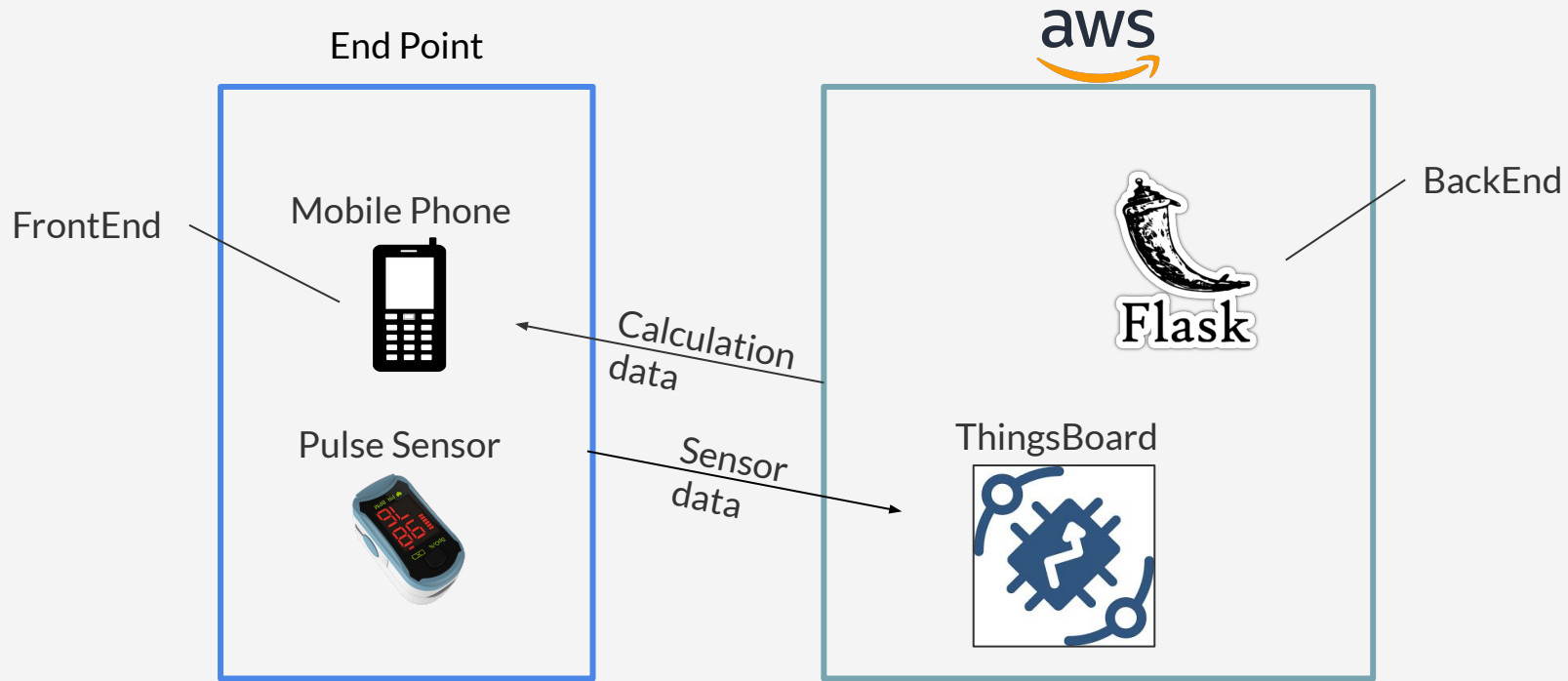
Intake



Consumption



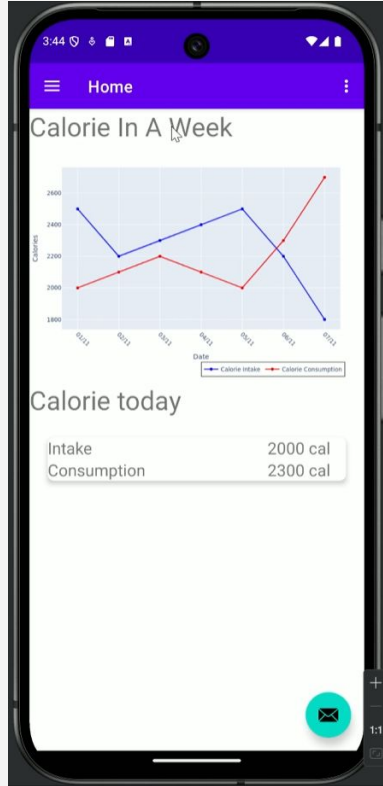
# System Architecture



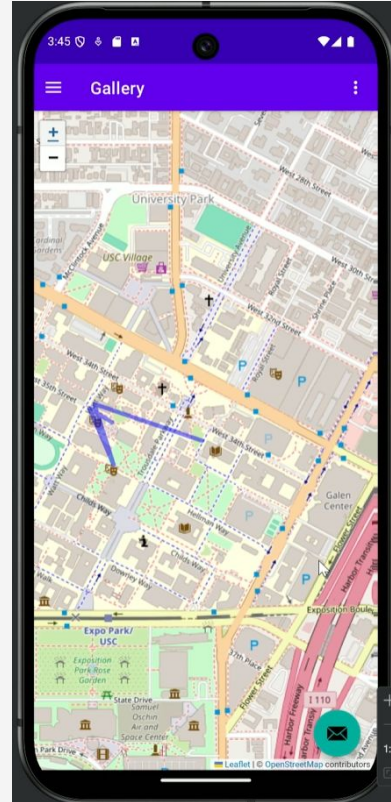
# Implementation

## Weekly Calorie Balance

## Daily Intake & Consumption



## Daily Commuting Route





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# Comparison



MyNetDiary

MyFitnessPal



WeightWatcher

Fitbit



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feature	CalBalance	MyFitnessPal	FatSecret
Food Image Calorie Computation	Yes. AI-powered image recognition model.	No. Manual entry	No. Manual entry
Calorie Consumption Calculation from Biometrics	Yes. Heart rate, blood oxygen levels.	No.	No.
Continuous Data Storage	Yes. Real-time, persistent data and logs.	Partially.	Partially.

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# Profit Point



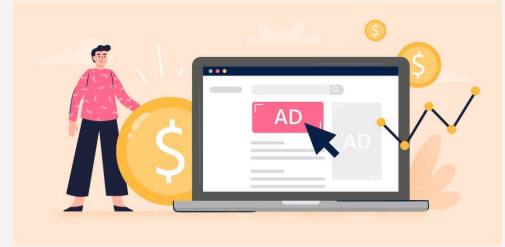
Wearable  
Industry

Gym



Restaurant

Advertisement





Thank you !!!

Team-6