

Date	19 September 2022
Team ID	PNT2022TMID38272
Project Name	Nutrition assistant application

## **Nutrition assistant application in cloud application development.**

### **Architecture and design considerations:**

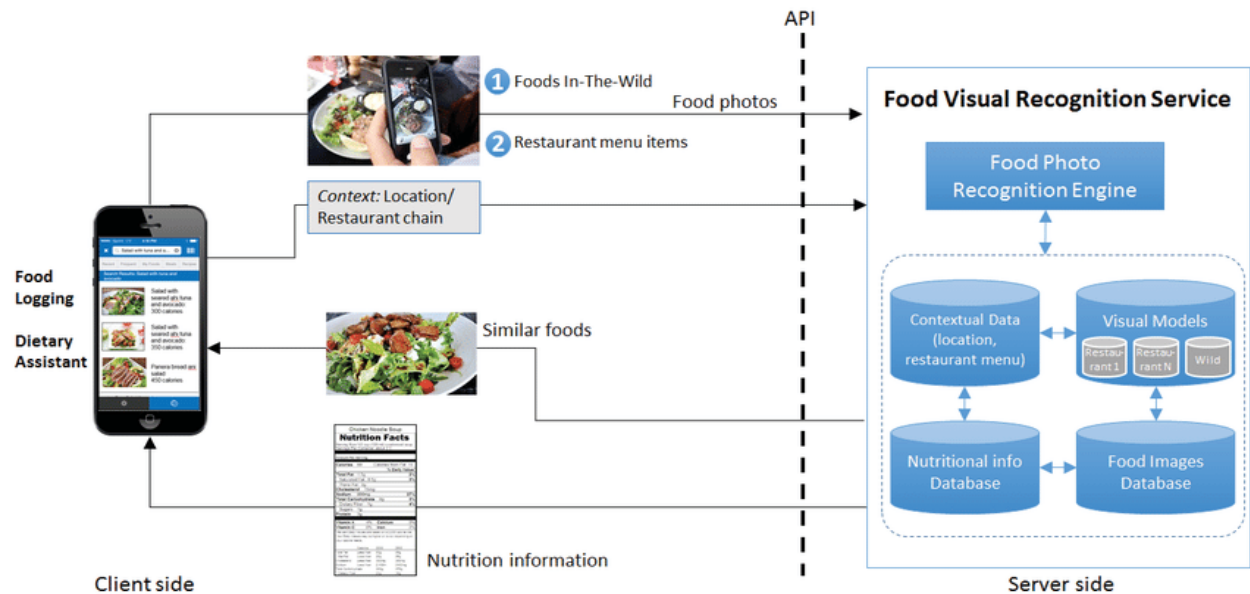
Due to the ignorance of healthy food habits, obesity rates are increasing at an alarming speed, and this is reflective of the risks to people's health. People need to control their daily calorie intake by eating healthier foods, which is the most basic method to avoid obesity. However, although food packaging comes with nutrition (and calorie) labels, it's still not very convenient for people to refer to App-based nutrient dashboard systems which can analyze real-time images of a meal and analyze it for nutritional content which can be very handy and improves the dietary habits, and therefore, helps in maintaining a healthy lifestyle.

This project aims at building a web App that automatically estimates food attributes such as ingredients and nutritional value by classifying the input image of food. Our method employs Clarifai's AI-Driven Food Detection Model for accurate food identification and Food API's to give the nutritional value of the identified food.

### **Work Flow of the architecture:**

- User interacts with the Web App to Load an image.
- The image is passed to the server application, which uses Clarifai's AI-Driven Food Detection Model Service to analyze the images and Nutrition API to provide nutritional information about the analyzed Image.
- Nutritional information of the analyzed image is returned to the app for display.

## Solution Architecture Diagram:



The advent of technology has made our generation sedentary. Due to the cost of app development technology, the amount of physical work has almost diminished which is the root cause of various problems.

As per [World Obesity](#) approximately 2.7 billion adults get obese and around 177 million adults will severely gets affected by 2025.

These stats show that we are living in the dark times and the agenda of Health & Fitness is in desperate need of a push. You can see this push in the form of an increasing number of Gyms and nutrition centers across the world.

Gyms have been a huge success. However, everybody doesn't have the time to join the gym. Moreover, some do join on New Year's Eve and then procrastinate for the rest of Year.

For such audiences, the diet & fitness app is a savior. They assist the users to follow a proper diet and to keep build Health and Fitness Apps a check on their calorie intake.

To take full advantage of the situation [mobile app development firms](#) have started to. Some apps are already doing well by helping app users at their best however, there are so many opportunities left for you to explore.

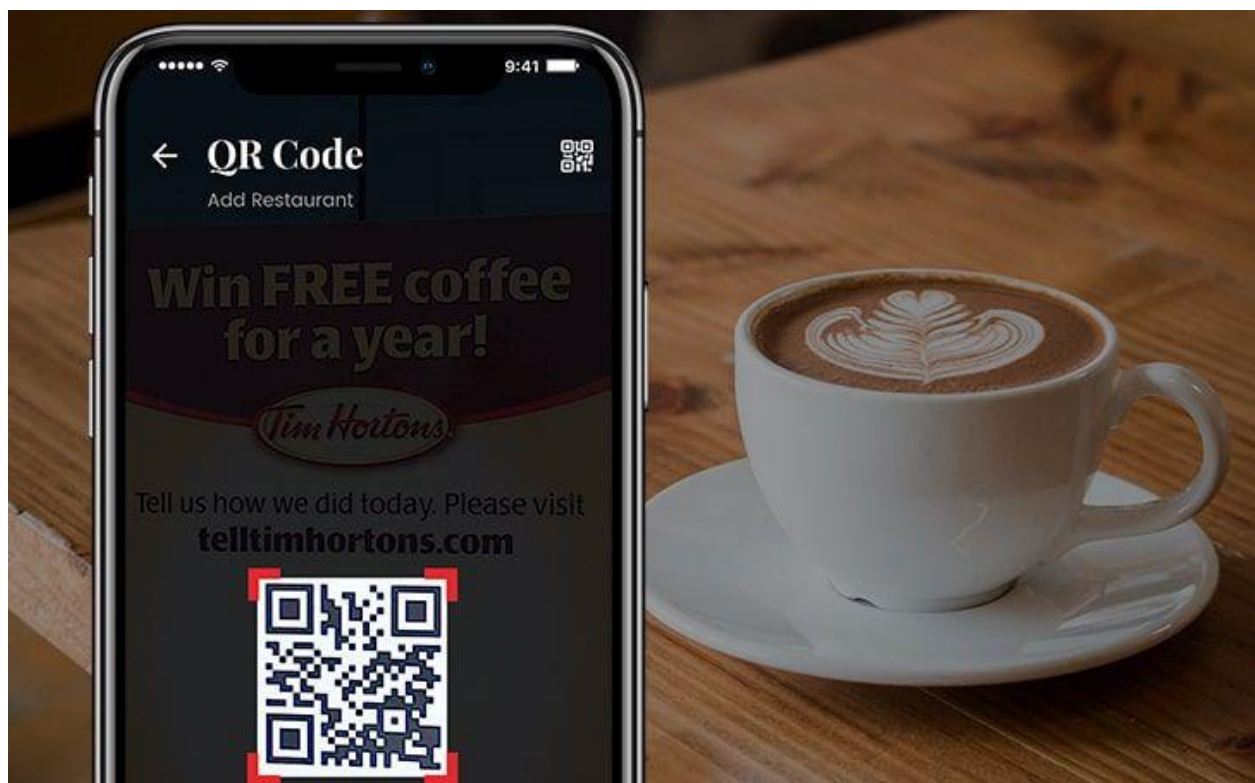
So, if you're an entrepreneur who is looking to [develop a health & fitness App](#), then this article will provide you with a complete guide and professional's tips on how to do it.



With diet and nutrition analyzer apps, you can analyze your client's current goal of diet and provide them with effective feedback on what to improve.

It is possible to create personalized meal plans and healthy recipes and generate nutrient analysis reports by using barcodes and other relevant nutrition tracking tools compared to the users' nutritional requirements.

Embedding a Barcode Scanner would be a great feature for your app as it would assist your customers in shopping.



It would provide important data such as calories and ingredients of the items with the help of your phone.