

# CAS 741: Problem Statement

## HealthyFoodApp

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## 1 Revision History

Table 1: Revision History

DATE	DEVELOPER	CHANGE	REVISION
September 19, 2019	Colin Chen	Initial Draft	0

## **2 Problem Statement**

### **2.1 What problem are you trying to solve?**

Nowadays, more and more people around the world start to concern the food's healthy problems. Fast food which contain too much calories would be seen as unhealthy. Fruits and vegetables can give people nutrients to maintain health, feel good and have energy are highly recommended. But there are so many kinds of food around, people can not identify healthy food in a quick and simple manner. So what I'm trying to do is build an mobile app called HealthyFood which can recognize the food on an image and show us whether it is healthy or not.

### **2.2 Why is this an import problem?**

Everybody has to eat. We can get more out of life, feel better and live longer by eating healthy food. Eating well can improves our body weight and shape, blood pressure and cholesterol levels. On the other hand, poor nutrition can impair our daily health and well being and reduce our ability to lead an enjoyable and active life. So healthy food indeed is an import problem we have to be cautions with.

### **2.3 What is the context of the problem you are solving?**

HealthyFood is an iOS app which can only runs on Apple devices. It can be used by all ages. The app utilizes the cutting-edge Apple technology on machine learning and ready-to-use models which makes mobile devices can do machine learning task really fast. It doesn't need internet connection to work, so it's also good for user privacy.

A special subset of stakeholders worth mentioning is the developers who has interest in machine learning and want to know how to do machine learning task on mobile platform.