Software Requirements Specification for The Healthy Table

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**Change Log**

* **Version 1.0 (03/14/2015): Document created.**

# Introduction

## Purpose

This software requirements specification is intended to document the requirements for The Healthy Table (THT). So that professor Berajawala may approve the project idea and keep tracking the project progress.

## Background

People have always been attracted to heathy food, because the way people eat can make huge difference in their health. Recent studies conducted by USDA and other associated organizations like NPD Group(a market research firm) show that Americans are making healthier food choices. The NPD research indicates that fruit is now the second most popular food consumed in the U.S., up from No. 5 a decade ago. While the USDA research concludes that increased consumer preferences for nutritious foods and greater use of nutrition information during food shopping also likely led to improvements in diet quality over a 5 year-period from 2005 to 2010.

The Online-to-Offline (O2O) commerce mode is popular these years. Typically, it includes online payment to get e-tickets, offline verification and consumption. It can attract customers online and direct them to offline physical stores, such as restaurants.

## Problem

Knowing what to eat can be confusing. Everywhere you turn, there is news about what is or isn't good for you. While most of us often don’t have ideas or plans on how and what should we eat for our everyday meals. In conjunction with such query, there are also a large group of people who need food plans that are specifically customized for them, such as patients, athletes and people with desire of improving their health conditions, such as loosing or gaining weight.

Now, the problem becomes to how to bridge restaurants with the public who are demanding customized healthy diet experience. How customer can easily order healthy food online and make payment online. How customer know how many calorie a dish have and how many calories is taken every day.

## Solution to the Problem

I plan to build a system that bridge restaurants with the public. And such a system would also allow consumers to be able to monitor their everyday food combustion as well as are able to track how they have progressed over time. Restaurants need more channels to promote their business and attract customers. On both ends of the system a new dynamic can be established to form a completely new eco-system. For instance, the system can provide dinning recommendations for individual customer base on their health conditions and or special requirements which are customizable base on their preference. Orders can be made online via the system then updated among restaurants and customers. The payment can be paid via the system.

## Content (Scope)

1. Administrator shall be able to login to the system and manage all the accounts.
2. Restaurants shall be able to register to the system and login.
3. Restaurants shall be able to add dishes and shall be able to add ingredients.
4. Restaurants shall be able to view the orders.
5. Restaurants shall be able to confirm the orders by using the ticket code auto generated by the system.
6. Restaurant shall be able to update the profile.
7. Restaurant shall be able to view finance report for the restaurant.
8. Customers shall be able to register to the system and login.
9. Customers’ information shall be able to collected via a survey (ingredient preference, ingredient allergy, location, budget and whether want to lose weight)
10. Customers shall be able to browse restaurant’s dishes and view details.
11. Customers shall be able to place orders through the system.
12. Customer shall be able to either make payment online or pay at the restaurant. If online payment is chosen, customer will get a discount from the system.
13. Customers shall be able to update profile.
14. Customers shall be able to add dishes to the cart.
15. Customers shall be able to view the diet plan that auto generated by the system based on the information taken from the survey.
16. Customers shall be able to track the calories taken every day.
17. Sales manager shall be able to approve or reject the registration of restaurant. If approved, the restaurant can sign in to the system. If not, the restaurant cannot sign in.
18. Sales manager shall be able to manage all of the restaurants.
19. Customer service shall be able to set the discount for all customer, if the customer pay online, this discount should be applied to the payment.
20. Customer service shall be able to manage all of the customers.
21. Finance shall be able to view the finance report of the system.
22. System shall be able to recommend the optimized selection of dish combinations to customer as per customer’s situation (a formula shall be created to generates diet recommendations base on individual customer’s information such as location, budget, health conditions, diet habits, and etc.)

## Definitions, Acronyms, and Abbreviations

## References

## Overview

# The Overall Description



## Product Perspective

### Software Interfaces

### User Interfaces

### Memory Constraints

## Product Functions

## User Characteristics

## Constraints

## Assumptions and Dependencies

## Apportioning of Requirements

# Specific Requirements



## External Actor Descriptions

### Human Actors

### Hardware Actors

### Software System Actors

## Use Case Descriptions

### View Personal Calendar

### Create Calendar Event

### View Calendar Event

### Annotate Existing Calendar Event

### Delete Calendar Event

### View Patient EHR

### Edit/Annotate Patient EHR

## Performance Requirements

## Logical Data Requirements

## Software System Attributes

### Reliability

### Availability

### Security

### Maintainability

### Portability

### Other quality characteristics

# Change Management Process

# Supporting Information