

Wholesome Eats Inc.

Inventory Optimization Suite

Request for Proposal

Version 1.0

January 16, 2017

Document History

Version	When	Who	What
1.0	2017-01-16	Wholesome Eats Inc.	Initial Drafting

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1.0 Problem Description

Wholesome Eats Inc. is a multinational food distribution network with grocery stores throughout North America. Inventory management is a huge concern in our industry; each of our locations wastes countless hours stocking shelves, accounting for missing inventory, and replacing perishable foods. This project will attempt to reduce the number of employees and managers required to oversee the following tasks:

- Stocking shelves
- Reviewing inventory counts
- Ordering new inventory

Our intention is to use the software to streamline daily tasks and improve human efficiency at the employee and management level, as well as to record data that could be used to establish inventory trends.

2.0 Project Objectives

The inventory optimization suite must achieve the following objectives:

- Increase stocking efficiency
- Reduce employee time spent stocking shelves
- Track inventory history
- Optimize manager workflow

The software bundle needs to include multiple modules to meet these objectives. The specific needs of each user group are further detailed in section 4.0.

2.1 Receiver/Stocker Module

The receiver/stocker module will be accessible to any employee working on the floor. It needs to be able to adjust inventory counts, and provide stock information in real time. This module should operate on a wireless handheld device. (See constraints for device specification).

2.2 Management Module

The management component should be accessible to department, store, and regional managers. This interface should be accessible via computer terminal or tablet, and should include daily reports, stock levels, and sales information.

2.3 Mobile Module

The mobile component should allow smartphone users to check store inventory, new product arrivals, and produce freshness. This module is strictly read-only.

3.0 Current Systems

Wholesome Eats currently employs an external contractor to perform an annual inventory review. Daily records for spoiled or destroyed produce are recorded by hand, with a nightly inventory adjustment. The night manager is responsible for entering department losses into the database at closing time. Yearly inventory reviews are completed to identify any inconsistencies due to theft or user error throughout the year.

4.0 Intended Users of the System

A number of different users that will interact with the system in many distinct ways. The three expected user groups include:

- Department managers
- Receivers
- Stockers

Department managers are the system administrators and primary users. They should be able to manually adjust counts for in store items and review trends or statistics for every department, including their own. The store trends and statistics should include existing stock amounts, sale rates, shipment errors, breakages and stock shortages.

Receivers are the employees that unload the packages from the shipment. They are responsible for confirming shipment arrival and to confirm shipment arrivals and tallying the number of goods received on a given haul.

Stocker receive the packages from the receivers and move them to the storefront. They also remove broken or spoiled goods from displays in store, and are responsible for physically counting inventory each night. Stockers are the first line of contact with customers.

5.0 Known interaction with other systems within or outside the client organization

The system will operate in conjunction with several existing systems, including the point of sale (POS) system used on checkout tills and our database system.

Our POS system is used on our self-checkout tills, and integrates with the inventory system. At time of checkout, the POS system queries the inventory system for prices, and updates inventory as items are sold. As a POS system update is not planned at this time, the new inventory system must implement existing database access methods.

Our current database system stores our product inventory, current prices and scheduled price adjustments, and historic data on sales, receiving, loss to theft, and loss to expiration. The new inventory system must integrate with the database as is.

6.0 Known Constraints

There are three major constraints that the solution system must adhere to:

6.1 Inventory level of error must be minimal

In order to match or improve upon our current inventory system, the suite must be able to achieve a maximum 4 item margin of error per 10,000 items.

6.2 Solution database must use or extend current database

As we will not be replacing our existing Point of Sale systems, the new management system must be compatible with the existing database software and sales hardware.

6.3 Software must work on recently purchased equipment

In a recent deal with Apple, Wholesome Eats has acquired a substantial number of iPads which will be the primary platform for said solution system. The software must be compatible with the iOS system.

7.0 Project Schedule

ID	Task	Start Date	End Date	Assigned To
1	Release RFP	01-12-2017	01-16-2017	Wholesome Eats
2	Requirement Specifications 1.0	01-17-2017	01-30-2017	Developer (Group 6)
3	Review Requirement Specifications 1.0	01-31-2017	02-02-2017	Wholesome Eats
4	Requirement Specifications 2.0	02-07-2017	02-22-2017	Developer
5	Review Requirement Specifications 2.0	02-22-2017	02-23-2017	Wholesome Eats
6	Prototype Demonstration	02-23-2017	02-23-2017	Developer
7	Requirement Specification 2.1	02-23-2017	02-24-2017	Developer

8.0 Project Team

The following 8 employees have been selected from the Wholesome Eats team to consult on this project. They can be contacted at the following email address, or through our website.

Email: wholesome.eats.inc@gmail.com

Website: TBD

Justin Macaulay – Regional Manager

Jon Pavelich – Head of Information Technology

James Gayfer – Purchasing & Receiving Manager

Christina Araya – Customer Service Manager

David Draker – Head of Accounting

Deon Liang – Store Manager

John He – Sales Manager

Tyler Harnadek – Head of Capital Projects

Tyson Bulmer – Logistics Expert

9.0 Glossary of Terms

Perishable Food item that will go bad after a period of time.

Point of Sale The cash register location; where customers pay for their goods