PART 1

Supplier

supplies ordered

invoice

payment

4.0
Accounts Payable Process

1.0
Update Inventory with newly received stock

inventory count plus items received

DS1
Inventory Database

replenish threshold

updated inventory count

order

3.0
Generate Orders

2.0
Update Inventory decrementing for items used

inventory count minus items used

count of stock currently on hand

Stock on Hand
ASSIGNMENT 2

PART 3

TO: Jesus Aguirre, Superintendent, Seattle Parks and Recreation
FROM: Jesse Talley, Technology Manager, Good Food Program
DATE: September 13, 2016
RE: Good Food Program Information Systems Overhaul

Departmental shortcomings over recent months present an opportunity for large scale change within the Seattle Parks and Recreation Good Food Program. Outdated information systems coupled with increased community participation on our services mandate a more customizable infrastructure that can be tailored to the intense demands and security concerns of our citizenry. This is why I recommend the open-source platform solution such as the Linux, Apache, MySQL, and PHP (LAMP).

Although the LAMP platform will require more expertise to setup and maintain, this cost will be outweighed by the substantial decrease long-term costs. As an open-source solution, the suite of applications in the LAMP platform can be licensed for free. Since we already have a staff of seasoned IT professionals, the overhead associated with setting up the system should be comparable to purchasing off-the-shelf solution such as the Windows Server and Microsoft SQL environment. However, the initial setup can be easily transported to other workstations. This will negate the need to purchase future licenses and will ensure optimal scalability as our department continues to grow.

As the Good Food Program expands its base of programs, we continue to collect a substantial amount of sensitive information from the public and from our employees. While commercial products continually offer security updates and patches, their wide-spread popularity is a large aspect of what makes them more vulnerable to potential security threats. By utilizing a well-known and respected open-source software that is less familiar to the general public, we can not only adopt industry standard security measures but also mitigate threats by altering the source code as needed in to fit our operational environment.

The LAMP solution, however, is not only customizable in its security. The platform also offers nearly infinite possibility for providing unique, user-friendly options to our staff and to the public. Our in-house team will have the opportunity to alter the platform as they see fit. However, should we come across a problem or need a specialized application that is not worth the cost of labor, the ever-growing community of LAMP users all but guarantees that a cost-effective solution will be available.

Commercial software has its place. However, given the internal structure and operational needs of the Good Food Program, an open-source solution such as LAMP provides overwhelming benefit in cost-savings, security, and customizability.