1. **Introduction**

**Project Context**

SMC is one of the top schools in the Philippines offering Basic Education and College. They are supervised by Southville International School and Colleges, a school with international character with international accreditation from the Western Association of Schools and Colleges.

Inventory management software is a computer-based system for tracking inventory levels, orders, sales and deliveries. Companies use inventory management software to avoid product overstock and outages. It is a tool for organizing inventory data that before was generally stored in hard-copy form or in spreadsheets.

**Purpose and Description**

The purpose of this project is to create a web-based inventory system that features:

1. Asset tracking: When a product is in the store, it can be tracked via item number.
2. Service management: To track the cost of the materials to be sold. This way, they can attach prices to their services that reflect the total cost of performing them.
3. Inventory optimization: A fully automated demand forecasting and inventory optimization system to attain key inventory optimization metrics such as: Reorder point, Order quantity, Lead demand, Stock cover, and others.

**Objectives**

Eliminate loads of manual work and errors that could be costly for the business.

Lightens the operational load by automating and streamlining processes.

**Scope and Limitation**

1. **Review of Related Literature/System**

Whether you are tracking inventory used to perform a service or sold to customers, using an inventory system provides staff accountability and minimizes inventory stockouts and shrinkage.

Clearly Inventory is an online inventory system that offers Low-Cost Inventory Tracking that features total control of user access, data management, data filters for easy search, and display inventory and sales reports.

TradeGecko Manage all your sales, stock, accounting, shipping and customer data from a single place. Inventory control to improve tracking and control over inventory activities and stock movements. Inventory optimization to anticipate demand and receive reorder alerts in time so you'll never experience stockouts again.

Megaventory is web-based inventory, order management, CRM and reporting system for small to medium businesses with multiple locations. Add multiple users with variable permissions, track inventory levels, prepare sales and purchase orders, sales quotes, handle inbound and outbound goods and regain overall the control of your company.

Rapid Inventory, powered by Accucode, is a cloud- based inventory management system that seamlessly integrates with QuickBooks Pro, Premier and Enterprise. Rapid Inventory will make it easy to track your inventory across multiple warehouses and locations, lot numbers, expiration dates and hold reasons. With our QuickBooks inventory management software, you will process more transactions in less time and eliminate costly errors, improving your inventory accuracy and lowering your costs.

1. **Technical Background**

Web-based Server System Requirements

1. Minimum Hardware Requirements

Processor: Dual Core CPU 2.0GHz

Instruction Set: 64-bit

RAM: 4GB

HDD: 250GB

1. Operating System

Windows 7 SP1 (32-bit/64-bit); OR

Microsoft Windows Server 2008 SP2 (32-bit); OR

Microsoft Windows Server 2012 (64-bit)

1. Database Requirements

XAMPP Control Panel

1. Server

Apache

Notes:

The system must be accessible by desktop computers and laptops (connected through LAN) within the campus.

The system will utilize Apache as its Web-Based Server System.

The system must be able to retrieve, store and view data.

1. Methodology, Results and Discussion