SYSTEM SPECIFICATIONS

FOR

Inventory Management System

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Executive Summary

Scope

The functions of this program will be:
- Inventory tracking
- Regular billing
- Producing Quotes
- Report Generating
- Notification to Clients when Inventoried Items are running low

Technical Specifications
- For this project the software stack we will be using is a web interface through C#.NET with the back end being a MySQL database, hosted on Amazon Web Services (AWS).
- This application will also feature mobile services, an iOS Application and an Android Application.
  - The iOS application will be written in the Swift Language on XCode.
  - The Android Application will be written in Java on Android Studio.
- This Application will feature a Web Application.

Modules:

- **Billing**:
  - This module will be designed to track active billing.
  - Will be able to Process payments on Sales Orders.
  - Should be able to keep track of:
    - View Pending/Processed payments.
    - Previous Invoices
    - Sales Orders
    - Processed Date

- **Purchase Orders**:
  - This module will be designed to track purchase orders.
  - If inventory is low, more supplies need to be ordered to maintain product flow.
    - Be able to auto-create future P.O's based on previous orders.
  - Should be able to keep track of:
    - Pending/Active/Completed Purchase Orders
    - Inventory Information
    - Vendor Information

- **Inventory**:
    - This module will be designed to manage inventory.
        - Keep record of all Inventory.
            - Should be able to store records of all in-stock and out-of-stock inventory
            - Notify users when inventory is low or out-of-stock.
            - Ability to create purchase orders from the individual items as needed.
    - Should be able to keep track of:
        - Vendor Information
        - Inventory Name
        - Description
        - Quantity
        - Cost Per Unit

- **Sales Orders**:
    - This module will be designed to track of all orders from customers.
    - Should notify user of a pending sale.
    - Should be able to keep track of:
        - Previous/Pending/Completed orders.
        - Shipping Information
        - Customer Information
        - Payment status
        - Order Date

- **Vendor Management**:
    - This module will be designed to keep track of vendors.
    - Should be able to keep track of:
        - Company Name
        - Address
        - Contact Information

- **Customer Management**:
    - This module will be designed to keep track of customers.
    - Should be able to keep track of:
        - Name
        - Address
        - Contact Information
        - Billing Information
        - Payment Information
        - View Shipment Tracking Information on pending orders.
        - View Previous/Pending Orders

- **User Management**:
    - This module will be designed to maintain users.
    - Allow the creation/deletion of users.
    - Manage user security level.
    - Validate login credentials.