**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.