**Inventory Management System**

Develop an Inventory Management System to automate the inventory management process. The automated system will incorporate the benefits of manual inventory management along with the convenience of a virtual tracking environment.

**Proposed System:**

The development of this new system contains the following activities, which try to automate the entire process keeping in the view of database integration approach.

* User Friendliness is provided in the application with various controls provided by system Rich User Interface.
* The system makes the overall project management much easier and flexible.
* It can be accessed over the Intranet.
* The user information files can be stored in centralized database which can be maintained by the system.
* This can give the good security for user information because data is not in client machine.
* Authentication is provided for this application only registered members can access.

The Inventory Management System aims to streamline the process of purchase and material management within an organization. The system maintains a common inventory as well as an item specific inventory.

The Purchase module maintains the purchase requisitions along with the facility of sending requests for quotation, raising purchase order and invoice.

There will be a separate module for vendor management that will maintain the records for all the vendors, along with vendor payment terms and digital repository for vendor files, including the quotes, contracts etc.

Also, there will be a report generation module using which the admin is able to generate various weekly and monthly inventory reports for all the modules.

**Modules:**

* User Authentication
* Purchase Module
  + Purchase Requisition
  + Request for Quotation
  + Quotation Comparison
  + Purchase Order Generation
  + Receipt on Purchase Order
  + Raise Invoice
* Vendor Management
  + Vendor Details
  + Vendor Payment Terms
  + Digital vendor files with quotes, contracts, etc.
  + Vendor Rating
* Inventory Maintenance
  + Item Master
    - Item Specification
    - Quantity
    - Status
  + Preventive Maintenance
  + Breakdown Maintenance
* Report Generation

**HARDWARE REQUIREMENTS:**

* Processor: Intel Pentium or More
* RAM: 1 GB Ram
* Hard Disk: PC with 20GB

**SOFTWARE REQUIREMENTS:**

* **Operating System Server:** Windows XP or later
* **Database Server:** Microsoft SQL Server-2008
* **Client:** Microsoft Internet Explorer
* **Tools:** Microsoft Visual Studio .Net-2010
* **User Interface:** Asp.Net with Ajax
* **Code Behind:** VC#.Net