Project Design Phase-I
Solution Architecture

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Project Name	Project – Inventory Management System for Retailers
Maximum Marks	4 Marks

Solution Architecture:

Inventory Management is one of the basic problems in almost every company. Before computer age and integration, paper tables and paperwork solutions were being used as inventory management tools. These we very far from being a solution, took so much time, even needed employees just for this section of organization. There was no an efficient solution available in the many companies during these days. Every process was based on paperwork, human fault rate was high, the process and the tracing the inventory losses were not possible, and there were no efficient logging systems. After the computer age, every process is started to be integrated into electronic environment. And now we have qualified technology to implement new solutions to these problems. Software based systems bring the advantages of having the most efficient control with less effort and employees. These developments provide new solutions for also inventory management systems in this context. In this paper, a new solution for Inventory Management System (IMS) is designed and implemented. Most importantly, this system is designed for retailers and used as Inventory Management System.

1. **Modules**
   - Definition/Setup
   - Inventory Management
   - Service Management
   - Maintenance Management
   - Debit Management
   - Deposit Management

2. **Features:**

   - User setup
   - Location Hierarchy
   - Categorization
   - Suppliers and their charges
   - Budgets and Transactions Details
   - Suggestions (Reduce the prices and predict the season & demands
            Of the products)

3. **Solution Requirement**

   SOFTWARE TOOLS
   1. HTML
   2. CSS
   3. JAVASCRIPT
   4. PYTHON
   5. FLASK

SOLUTION ARCHITECTURE DIAGRAM

RETAIL
SHOP

DATABASE

PRINT
THE
REPORT

USER

INVENTORY MANAGEMENT
SYSTEM

INVENTORY
AREA

SERVER

ANALYZE