# **Project Report (Database System I)**

## **Prepared for**

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## **Executive summary:**

The primary goal of this project is to design, build and implement a sales and storage management system. The system simplifies the operation flow of the business, to reduce unnecessary steps in using the system by integrating different compatible modules into a compact one.

The system is using SQL as the database system. And for making the front end of the database we used netbeans(java). Thus, several advanced features that are offered by the software are also being implemented into the new system.

All of the basic data are being registered in the system. From customer to supplier data. Along with transaction inputs, the new system can produce useful reports for the manager to view and make the decision accordingly. Plus, in the end, the system store all the records of the tranctions that occured. Futher, the program consists of a login page. So, only officials can operate the system. You can also add, delete and update the data about the employee and give them login access if you want.

### 1) Introduction:

A database management system (DBMS) is a software tool that enables users to manage a database easily. It allows users to access and interact with the underlying data in the database. These actions can range from simply querying data to defining database schemas that fundamentally affect the database structure.

Stores are required for the following purposes:-

- 1. Order management
- 2. Tracking and manageing inventory
- 3. Reporting and analysis

The 'Stores Management System' is targeted to automate the almost all of the processes mentioned above to reduce the labor of the staff working in Stores both technical and as well as Accounts departments using the software Industry's latest technologies and cost effective tools there by providing the better control to the management by avoiding manual errors etc..

### 1.1) Auto Store Management System:

The system creates a system based managements program that enables a Store to schedule its inventory based on the daily update of sales from its supplier. Once the figures of items are entered by the employee the system will run until it runs out of stock and then it will give you the error "out of stock". The system will provide you with the same error until you restock the items in it. A report of the each trancation will be prepared which can be view any time by the manager.

The Benefits of the Stores Management System are

- Product Categorization
- Product Measurement
- Product History
- Cycle Counting
- Automatic Stock-Out Reports
- Collaborative Inventory
- Stock Inquiries

#### 1.2) TOOLS:

Tools to design the management system are:

- Oracle for SQL(backend)
- Netbeans IDE 7.4 for JAVA(frontend)

#### 1.3) Problems of the System:

i) Configuring authentication and authorization:

Easily configure user accounts, define access policies, modify restrictions, and access scopes. These operations allow administrators to limit access to underlying data, control user actions, and manage users in databases.

#### ii) Database related queries:

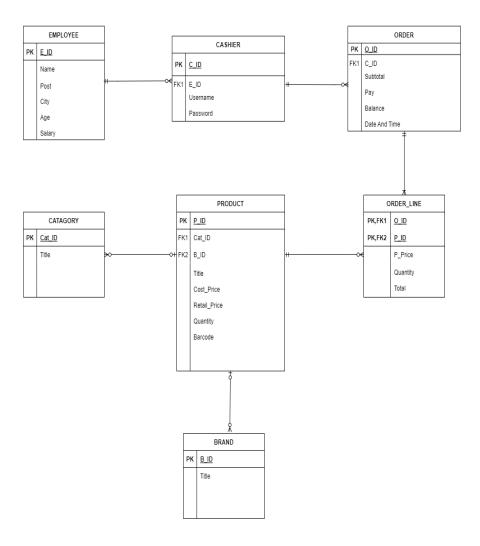
Database Queries consists of insert, update, delete, search etc. the system should handle all these queries in the best possible way so the system runs smoothly and efficiently.

## 2) Solution:

In the previous system we used **phpMyAdmin** and the database tables were not linked with each other. We also didn't store the employee information and couldn't connect the database with the front interface.

Then we shifted our system to oracle and connected each table using references. We also created a login page for the employee use and created a table to store all the necessary employee data. Then we connected the backend (database) with the main interface using Netbeans (java).

## 3) ERD Diagrams:

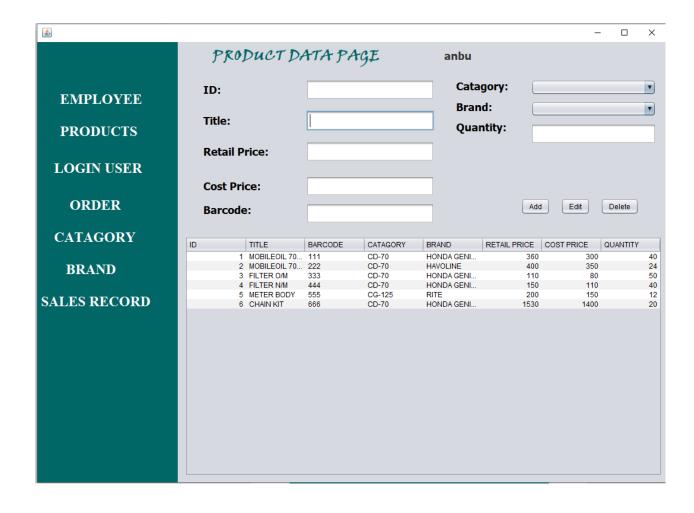


4) Screenshot of Working of Project

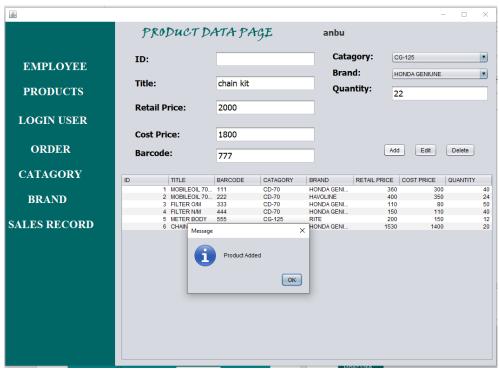
i) Login Panel:

Auto Store Login Page				
Username :	anbu			
Password :	***			
	Sign In Close			

### ii) Data Display



#### iii) Data Insertoin:



### iv) Data Deletion:



v) Order Transaction with print slip:

