*Design and development of Point Of Sale [ POS ]*

**Abstract of the project**

This project is a very popular and widely used in many big supermarket / departmental stores and is used to cater the need of the sales system there. This system is used maintain / control most of the activities happening in big stores. This maintains and controls the stock details and does billing and generates various reports.

**Keywords**

**Specific Technology keywords**

MS-SQL server / Laravel -php

**Project type keywords**

Analysis, Design, Implementation, Testing, User Interface

**Functional components of the project**

Following is a list of functionalities of the system. More functionalities as deemed appropriate can be added list. And, in places where the description of functionality is not adequate, appropriate assumptions can be made.

**Functional components of the project**

**--User Login**

First to enter this system the users has to login to this system. Basically, there are 2 types of users in this system.

1.      Admin users - Has full access to all the modules of this system.

2.      Normal users – Has restricted access. i.e., Normal users have access to some of the modules only.

* First a login screen should be displayed to get the user details. The user has to enter the user-id and the password. The password must be masked with character ‘\*’.
* The user details should be verified against the details in the user tables and if he / she is valid user, they should be entered into the system. Once entered, based on the user type access to the different modules to be enabled / disabled.
* If user enters wrong password for continuously 5 times, the account should be locked. The information about the login and logout details should be stored in a separate table.

**--Stock Details**

This module is used to maintain the various products available in the store. Each product available in the store should be classified under a product category. This module will be enabled only to the admin type of users.

 A separate screen should be provided to maintain the product category. It should provide a way to add, modify and delete the category details.

 If a new product is received it should be added to the system with the corresponding details like product information, quantity, category, etc.

* There should be a screen to maintain the vendor details. Vendor details should be stored in a separate table.

**--Billing**

 This is the main / core part of the entire system. The billing is done in this part. This includes various things like collecting item details and updating price, and getting payment information, etc. This screen should have item details, counter no, user id, payment details, etc. In addition, the billing should also incorporate and offers/discounts during that period of time.

This screen mainly contains a grid type of control to get the various products purchased. The should have columns like Item No, Description, Batch No, Rate, Quantity, Price, etc.

* The continuous bill number should be generated. It should not be a cyclic number or a previously used number.

 The user should enter item no in the corresponding column of the grid. The item number should be validated and if found valid the description, rate and other details has to be displayed automatically. Then the user should be allowed to enter the quantity and price and total should updated.

 Once this is done, the mode of payment should be Cash. Then the amount received should be taken as input and balance should computed and displayed.

* After this the bill has to be printed with all these details. A confirmation screen has to be displayed on the screen about the printing. If bill is not printed properly, provision should be made to reprint the bill.

**--Reports**

 This module is used to print various reports. This module will be enabled only to the admin type of users.

**User details repo**rt: -This contains various information about the users available.

**User login details report: -** This report takes the user ID and from / to date as input and generates the report containing the login date, login time and logout time, etc.

**Item category report:** – This gives the different item categories.

**Item details report: –** This gives the information about the various items available in the store along with the information like category, stock level, etc.

**Sales report –** This report takes date as input and gives details of sales made on that date along with item information. This report should be available for a given date or for a date range.

**Vendor details report: –** This report gives the details about all the vendors.