

Super market billing system

**A Report on the Course Project**

**SUPER MARKET BILLING SYSTEM**

***Submitted By,***

**XXX  
XXX  
XXX**

**TEAM Name:** Tech Knights.

**CODE FOR DEV**

**Project Title:** SUPER MARKET BILLING SYSTEM

## **1. Introduction**

The project is on supermarket billing system. A supermarket is a self-service shop offering a wide variety of food and household products, organized into aisles. It is larger and has a wider selection than earlier grocery stores, but is smaller and more limited in the range of merchandise than a hypermarket or big-box market.

### **1.1 Background (System Study Details in brief)**

Our project's system study is about knowing the successful implementation of ERP software in a supermarket and knowing how they manage each functional area and the software they use. We made our system study in a (supermarket) Jayanthi bakery located inside CMC. We got details about the history of That store, their stock, supply chain, transportation of goods, sales of goods, their sales department, the method used in carrying out accounting and finance, requirements etc. With these details further proceeding in our project to design and implement the billing system ensuring it meets most of the requirements.

### **1.2 Problem Statement**

Supermarket management system is about management of supermarket on all types of department. Manual management of supermarket has become a tedious task for a supermarket with more number of customers. They cannot automate their business to reach a level of sales and customer satisfaction because of information boundaries with each FA's. The supermarket needs to automate their business and reduce manual work. The manual work gives confusions and lot of maintenance and accounting problems. Different software is used for each department which causes difficulties in monitoring of stock details. The best-known solution is implementation of ERP in the supermarket help in automation of all FA's there by offering the system with easy processing of product related data. The system reduces manual calculations and implementation of digitalized

accounting bill and customer service is done. The system helps the employees in easy bill calculation and providing an efficient customer service. The system also maintains the relation between shop keeper and supplier by auditing the records digitally (keeping track of bill paid and to be paid). we are concentrating more on implementing ERP software in super market and try to cover some part of functional areas.

### **1.3 Importance**

To improve the entire business process that are involved in supermarket requires a complete solution so that every department can be under a proper Management. ERP software helps in automating the business so the functions in the business can be carried out automatically which also gives rise to other advantages. Olden days the ERP software was considered as a luxury in the market. Then people understood the importance of ERP software and it is renounced as an essential necessity for all kind of business. This implementation of ERP has affected the profit or loss in a good way. More over most of the process which are carried out manually is being reduced.

## **2. Overview and Planning**

### **2.1 Proposed System Overview**

The challenges that we faced while collecting the details of the shop are:

- To know the vendor's previous projects, industry vertical and experience.
- The limited time that the shopkeeper gave for the interview.
- The shopkeeper doesn't share all the details regarding the ERP that he has having.
- Each of us is from different part of the city so we had timing issues in accessing the shop.
- The shopkeeper doesn't want us to return again and again.

### **2.2 Challenges**

The challenges that we faced while eliciting the details of the shop are:

- ☐ 1.To know the vendor's previous projects, industry vertical and experience.
- ☐ 2.The limited time that the shopkeeper gave for the interview.
- ☐ 3.The shopkeeper doesn't share all the details regarding the ERP that hehaving.
- ☐ 4.Each of us is from different part of the city so we had timing issues inaccessingthe shop.
- ☐ 5. The shopkeeper doesn't want us to return again and again.

### **2.3 Assumptions**

The supermarket maintenance ERP software allows us to do the following

- ☐ 1.Fast and effective billing of the products
- ☐ 2.Analyzing the inventory and its details
- ☐ 3.Connection between logistics and servers in the store
- ☐ 4.Maintaining the profit and loss of the enterprise
- ☐ 5.Provides good customer feedback and increasing the worth of the shop

### **2.4 Architecture Specifications**

The system architecture is designed using the object oriented analysis concept style. It is also called Abstract Data Type. The system has business component and database component at its backend architecture. The architecture is based on the three-tier architecture model.

### **2.5 Hardware Requirements**

- ☐ 1.Intel core i7 microprocessor.
- ☐ 2.8 Giga Byte RAM
- ☐ 3.1 Tera Byte ROM
- ☐ 4.1 Giga Byte NIVIDIA Graphic Card.
- ☐ 5.Swiping machine
- 6.Feedback receiver

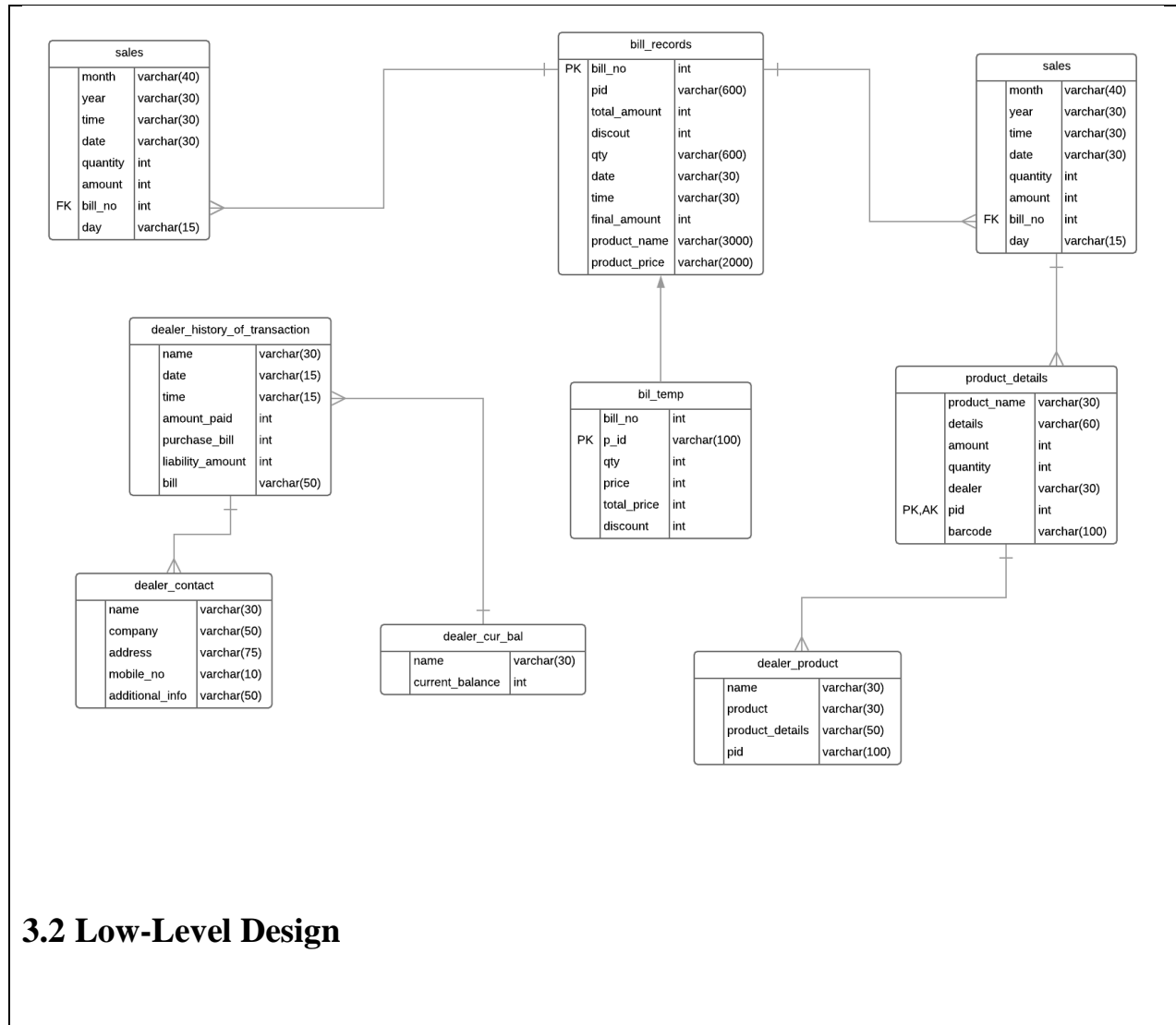
### **2.6 Software Requirements**

- 1.windows platform
- 2.Front end using html 5, CSS, P5.js, Java Script and PHP.
- 3.Backend using MySQL (wamp server)

## **3. System Design**

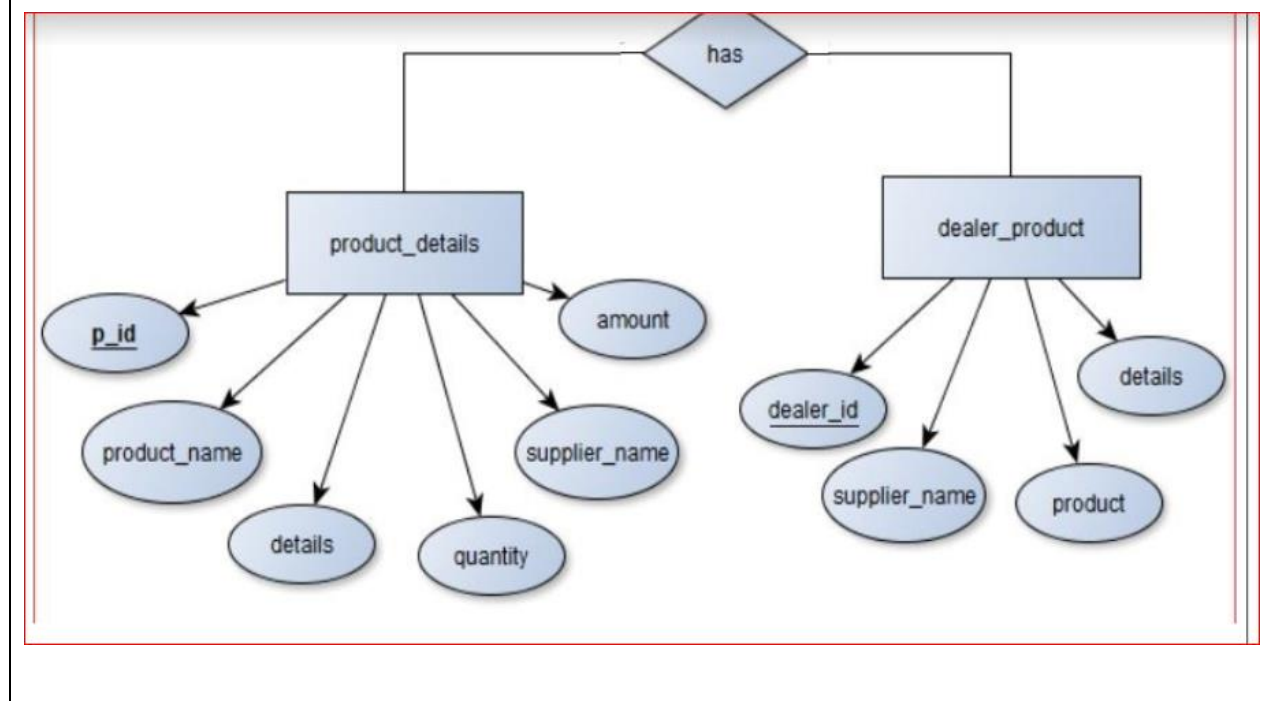
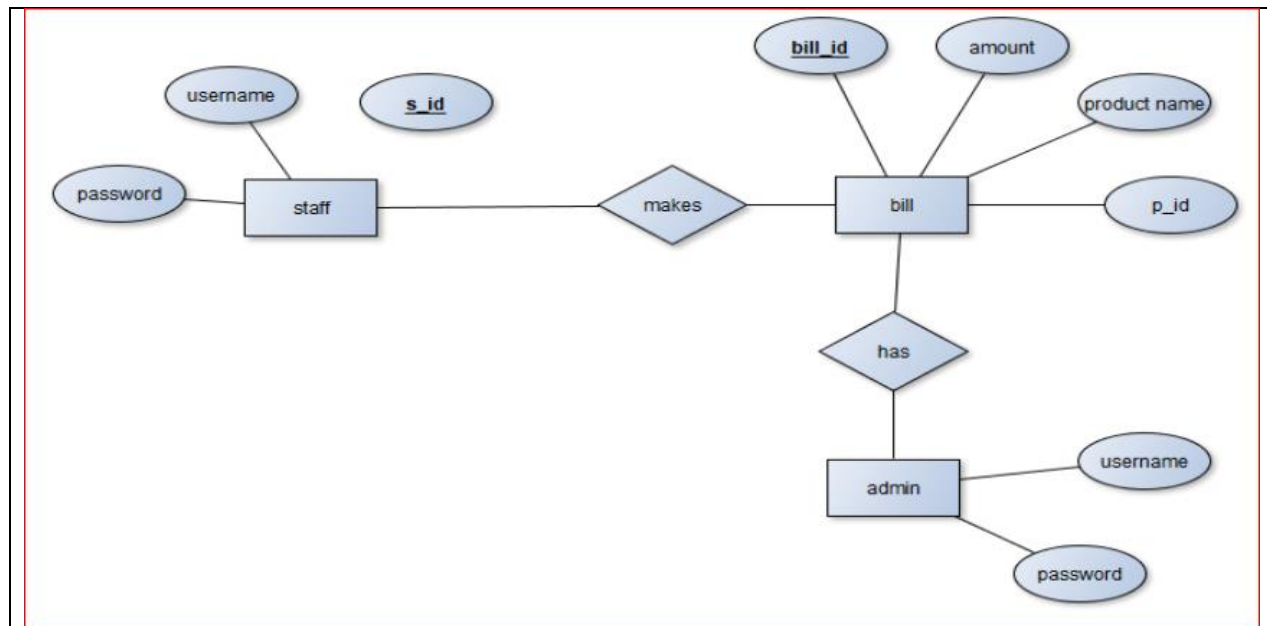
### **3.1 High-Level Design**

## Super market billing system

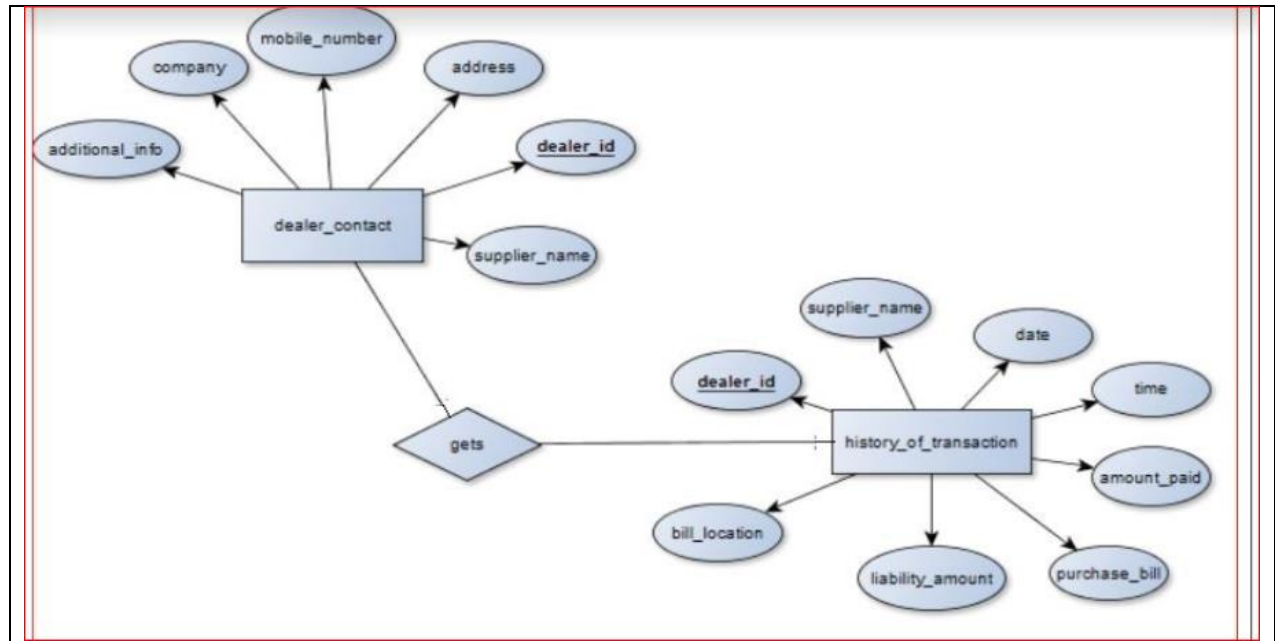


### 3.2 Low-Level Design

## Super market billing system

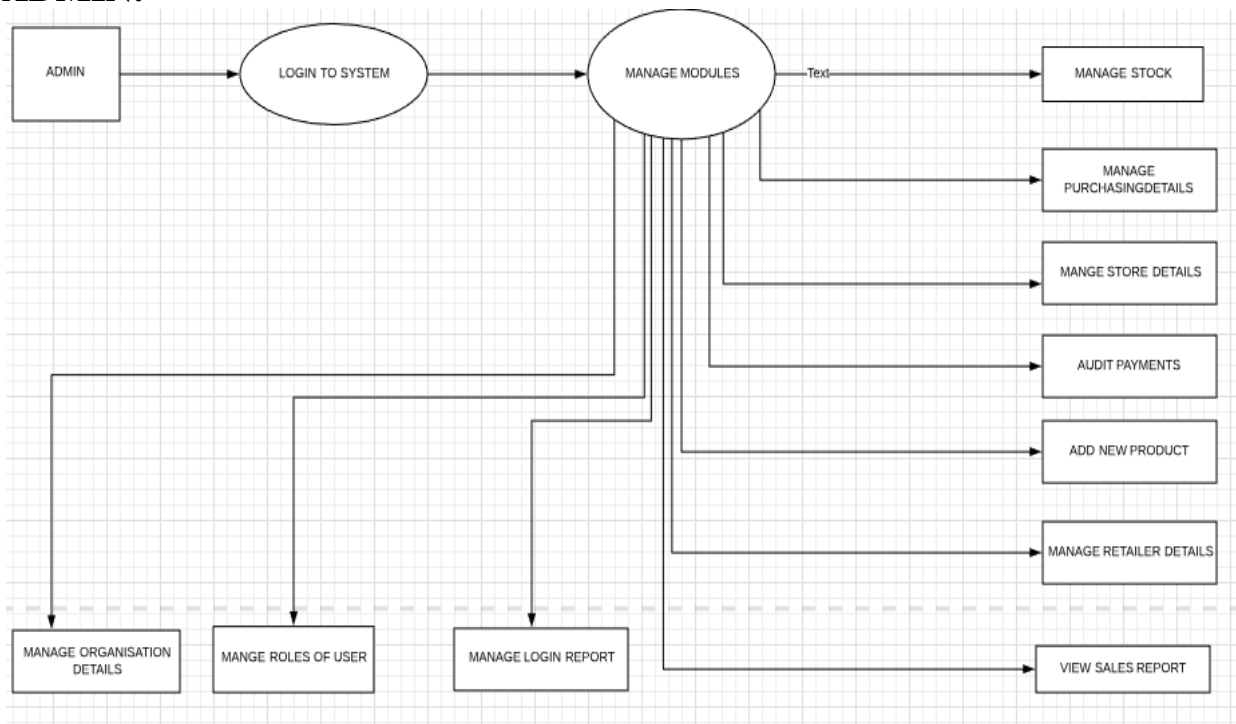


## Super market billing system

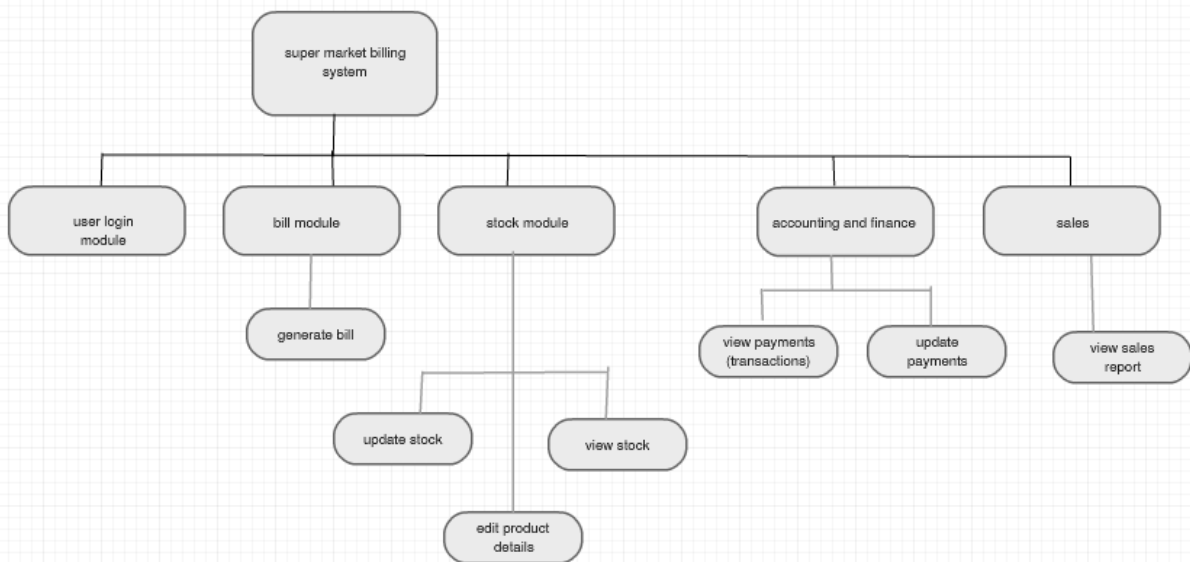


## Super market billing system

### ADMIN:



### ○ Module Development – Code





- **System Implementation**

**User login module.**

**Notification of insufficient stock module.**

**Normal employee:**

- **Generate bill module**

**Stock manager:**

- **Generate bill module**
- **View and update stock module**
- **Add product module**
- **Update product details module**

**Admin:**

- **Generate bill module**
- **View and update stock module**
- **Add product module**
- **Update product details module**
- **Auditing payments and adding supplier module**
- **Sales report module**
- **User account management module**
- **Organization information module.**
  - **Output/Results**

**Billing System** **KK MARKET**  
(Tech Knights)

**Sign in**

kavya

\*\*\*\*\*

Login

## Super market billing system

Home

bill

stock


finance management

analytics

manage account

organization info

log out



upload profile

View Login History

initial

view history

user	login time	role
kavya	01:03	stock manager
kavya	01:09	stock manager
kavya	01:09	stock manager
kavya	05:13	stock manager
priya16	05:21	employee

Delete Staff

kavya

Remove Account

Add Staff

Staff Name

address

mobile number

kavya

.....

Choose File No file chosen

select role of the user : stock manager

Sign up

select report type

--select--

--select--

annual report

monthly report

date customized

### Update organization details:

parameter to be updated:

address

enter new value

update



upload logo

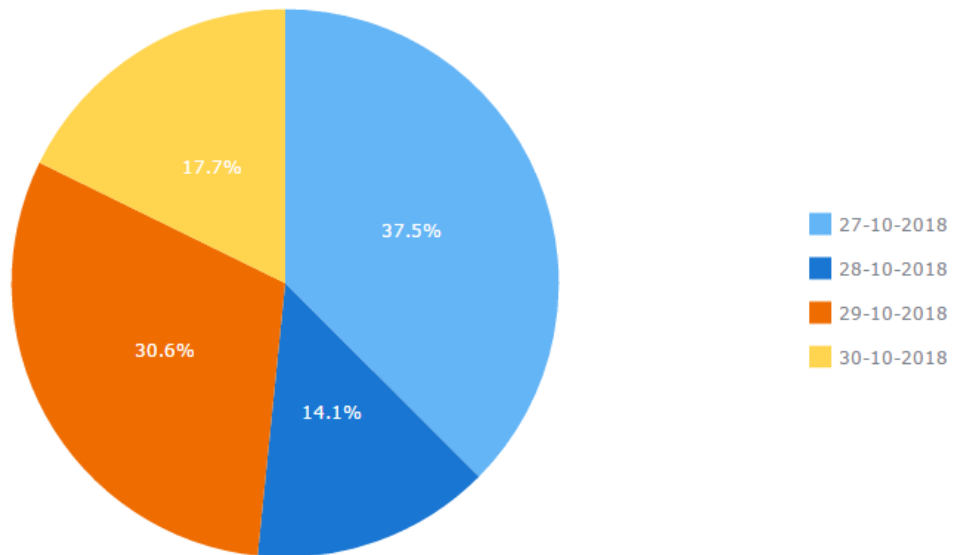
note(the organization details should contain both mobile number and address)

## Super market billing system

select report type

--select--

sales report for the year



## Super market billing system

options

Update Stock:

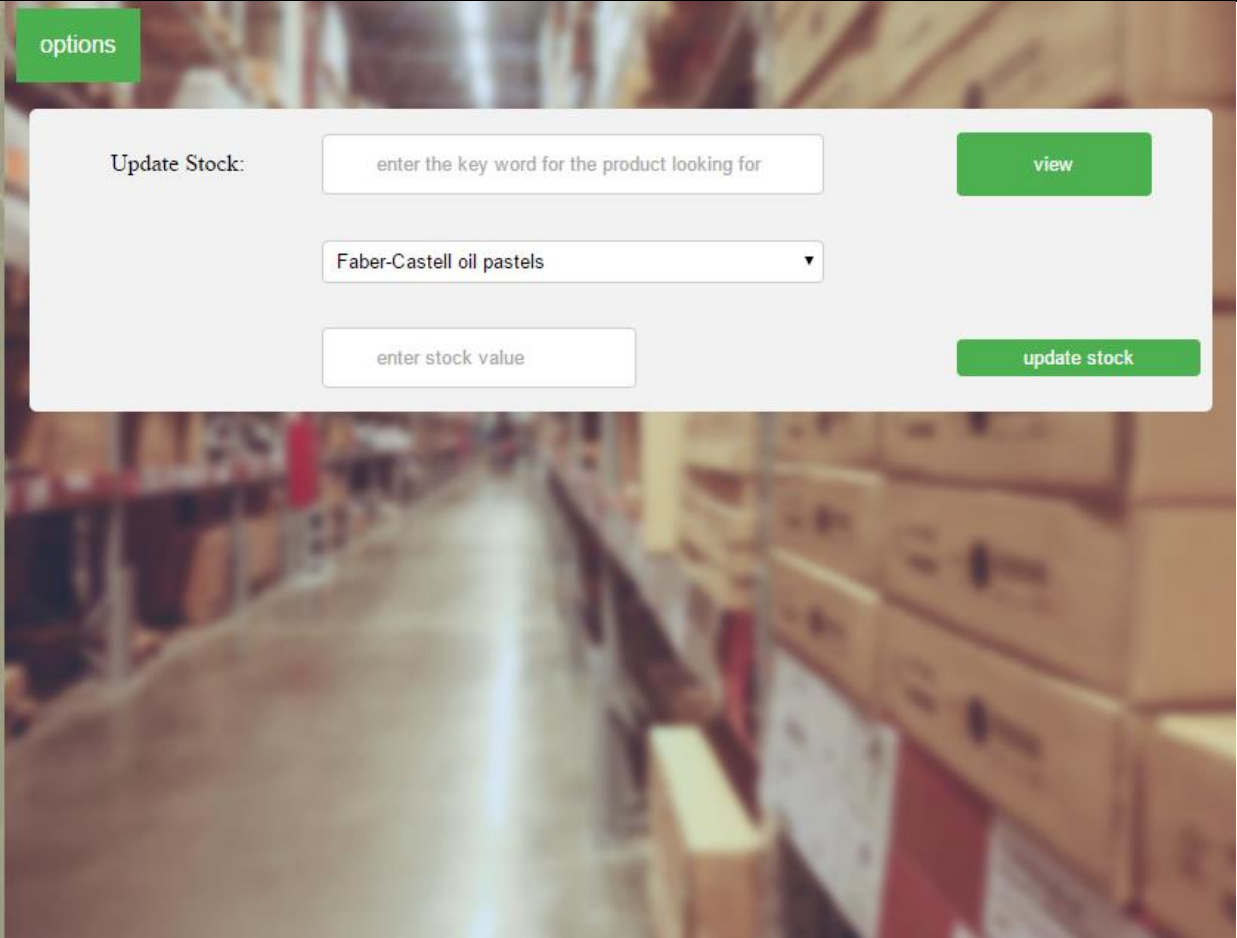
enter the key word for the product looking for

view

Faber-Castell oil pastels ▼

enter stock value

update stock



# Super market billing system

Home

bill

stock

finance management

analytics

manage account

organization info


log out

options

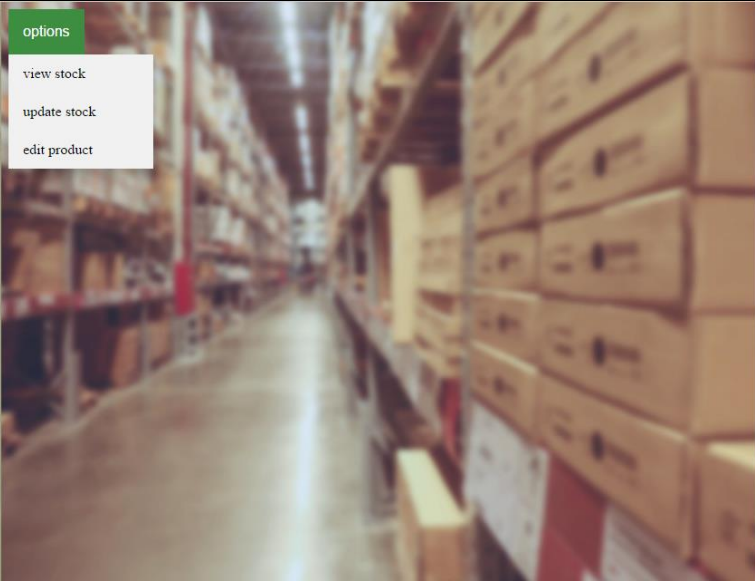
view stock

update stock

edit product



upload profile



Add new product

(scan using bar code scanner).

add

options

Repay Bill

upload receipt:  No file chosen

update paid amount

Bill of Purchased Goods

Purchase Bill:  No file chosen

add bill amount

## Super market billing system

options

view stock:

enter the minimum quantity

view

product	product details	dealer details	dealer	stock
Faber-Castell oil pastels	15 oil pastels 60 mm x 10.5 mm diameter	8836045620	R.K. Khosla	36
classmate note	ruled note 160 pages size 31.4 x 19.4	9974856321	antonio samaranch	289
classmate note	un-ruled note 160 pages size 31.4 x 19.4	9974856321	antonio samaranch	266

options

View current balance

select the dealer name : antonio samaranch ▼

view complete transaction

view balance

dealer name	company	date	time	amount paid	purchase amount	liability amount	view bill
antonio samaranch	KGC	01-10-2018	07:06	0	0	12000	<a href="#">view bill</a>
antonio samaranch	KGC	22-10-2018	08:37	100	0	11900	<a href="#">view bill</a>

- **Conclusion and Future Developments**

The supermarket enterprise is used by all the persons who are living in this world. The supermarket has a good scope in all the durations. The supermarket enterprise which we visited is known as Buttons. This enterprise is not a big shopstore. This enterprise has only minimum number of employees. Buttons enterprise do not use any advanced software they only make use of normal websites. They are not using any ERP software to coordinate all the departments. They use software for the process of billing. They are not using any software to maintain the inventory stock.

They bring the goods from that particular warehouse and they maintain the details using a hand written receipts. The accounting and sales area is implemented. The ERP will help a lot to develop an enterprise in an effective way.

- **References**

[http://files.spogel.com/miniprojects/cse/p-00479--billing\\_system\\_departmental\\_store.pdf](http://files.spogel.com/miniprojects/cse/p-00479--billing_system_departmental_store.pdf)

<https://www.scribd.com/doc/27828662/ABSTRACT-the-Project-supermarket-Deals-With-The>

[1] T. Sriram, K. Vishwanatha Rao, S. Biswas and B. Ahmed "Applications of barcode technology in automated storage and retrieval systems", Industrial Electronics, Control, and Instrumentation, 1996., Proceedings of the 1996 IEEE IECON 22nd International Conference on, vol. 1, pp.641 -646

[2] Ref: Alistair Milne "The Rise and Success of the Barcode: some lessons for Financial Services" feb 2013

Any other related information, you want to add.

			<b>M.Tech (Software Engineering) FALL 2018</b> <b>SWE 1014 : Enterprise Resource Planning</b> <b>Course Project- Implementation Review</b> <b>(Review III) -Evaluation Sheet</b>	
			<b>Signature</b>	<b>Guided By</b>
		<b>Student 1</b>	<b>Student 2</b>	<b>Student 3</b>
			<b>Evaluator Comments</b>	