OBJECTIVE

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This software project is a traditional billing system. This system is built for fast data processing and bill generation for customers.

The system consists of an MS-SQL Database and effective front end designed in C#. The database is a collection of product name, price and other product specific data.

A product when billed is searched from the database and its price is added to the bill based upon the product quantity. The billing system is built to help calculate and display bills and serve the customer in a faster and efficient manner.

This software project consists of an effective and easy GUI to help in easy bill calculation and providing an efficient customer service.

GOALS

- Reduces much of human efforts in calculating bill especially for huge products. It provides accuracy and faultless in billing calculations.
Easy and Attractive GUI to manage & Fast Processing. Security of details and credentials added in the system. Necessary validations implemented in the system to avoid invalid details to be added in the system.

Advantages   :-

★ It offers offline capabilities.
★ The application if implemented is cheaper for long term perspective.
★ The application does not require third party support for backups.

Disadvantages   :-

★ It relies on the computer speed.
★ Multiple users cannot access the application at the same time.

NEED OF SYSTEM

★ As daily lots of transactions are being undertaken, records are needed to be maintained for their future reference. Maintaining such huge records in registers would lead to a much tedious and could cause a lot of time consumption.

★ The automated system would help the organization in providing a better analysis of the daily transaction, rather than making a view over the entire daily transaction thus helping the organization in making better decisions without doing much work. These all transactions cannot be done properly without the help of a complete automated system. Thus there is an sample need of an automated system to carry out these transactions effectively and smoothly and to reduce the daily workload.

INTRODUCTION

- In any business or organization, all functions are interlinked and connected to each other and are often overlapping.

- Therefore these functions are extremely important to marketing managers as well as finance controllers.

- Some key aspects like supply chain management, logistics and inventory form the backbone of the business delivery function.

- Inventory management is a very important function that determines the health of the supply chain as well as the impacts the financial health of the balance - sheet.

- Every organization constantly strives to maintain optimum inventory to be able to meet its requirements and avoid over or under inventory that can impact the financial figures.

DEFINE INVENTORY

- Inventory is an idle stock of physical goods that contain economic value, and are held in various forms.

- An organization in its custody awaiting packing, processing, transformation, use or sale in a future point of time.

- Any organization which is into production, trading, sale and service of a product will necessarily hold stock of various physical resources to aid in future consumption and sale.

- While inventory is a necessary evil of any such business, it may be noted that the organizations hold inventories for various reasons, which include speculative purposes, functional purposes, physical necessities etc.

From the above definition the following points stand out with reference to inventory:

- All organizations engaged in production or sale of products hold inventory in one form or other.

- Inventory can be in complete state or incomplete state.

- Inventory is held to facilitate future consumption, sale or further processing/value addition.

- All inventoried resources have economic value and can be considered as assets of the organization

The following compelling facts will give the missing dimension perhaps worth giving attention to :

- The overall volume of Fitness center has grown exponentially.
- The dealers and the customers they have been dealing have grown in numbers.
- Day by day it is becoming increasingly difficult to manage it with the current method of running business.
- The use of computers, printers enabled software will only simplify their business needs and will help them sustain their current leadership status.

:- SOFTWARE DEVELOPMENT LIFE CYCLE :-

- It offers the basis for project planning, scheduling, and estimating.
- It is a mechanism for project tracking and control.
- Enhance development speed.
- Improved client relations.
- Helps you to decrease project risk.

Admin Dashboard — □ ×

Users   Category   Products   Dealer and Customer   Inventory   Transactions

Admin admin

IKEA SUPERMARKET
SUPERMARKET BILLING SYSTEM

ADMIN DASHBOARD

Developed By : PATEL KIRAN

LOGIN ✕

Username

Password

User Type

LOGIN

USERS ✕

Search :-

User ID :-		id	first_name	last_name	email	username	pas
First Name :-	▶	3	Kiran	Patel	kiranpatel@gmail...	kiran	0310
Last Name :-		8	Admin	Admin	admin@gmail.com	admin	admi
Email :-		18	Mihir	Patel	mhirpatel@gmail...	mihir2	567
Username :-	*						

Password :-

Contact :-

Address :-   **USER**

Gender :-

User Type :-

| ADD | UPDATE | DELETE | Excel Sheet | Report |

CATEGORIES ✕

Search :-

Category ID :-		id	title	description	added_date	added_by
Title :-	▶	13	Grains	household grains	11-04-2020 19:44	8
Description :-		14	Diary	must store in cool...	10-04-2020 11:49	0
		15	Drinks	All Types Of Drinks	11-04-2020 17:30	8
		16	Sweets	All Type of Sweet...	11-04-2020 17:33	8
	*					

CATEGORIES

| ADD | UPDATE | DELETE | Excel Sheet | Report |

PRODUCTS

Search :-

Product ID :-
Name :-
Category :- Grains
Description :-

Rate :-

	id	name	category	description	rate	qty
▶	18	Rice	Grains	All types of rice.	50.00	25.00
	19	Milk	Diary	All companys milk...	20.00	180.00
*						

PRODUCT

ADD   UPDATE   DELETE   Excel Sheet   Report

DEALER AND CUSTOMER

Search :-

DeaCust ID :-
Type :-
Name :-
Email :-
Contact :-
Address :-

	id	type	name	email	contact	address
▶	12	Dealer	Sham exporters	shamexpo@sha...	9876543210	Chembur
	13	Dealer	Joginder Diary Pr...	joginderdiary@g...	8905672341	Borivali (East)
*						

DEALER & CUSTOMER

ADD   UPDATE   DELETE   Excel Sheet   Report

INVENTORY

Category :- Grains
Produuct Name :- Rice

SHOW ALL   Excel Sheet   Report

	id	name	category	description	rate	qty	added_date	added_by
▶	18	Rice	Grains	All types of rice.	50.00	30.00	11-04-2020 15:49	8
	19	Milk	Diary	All companys milk...	20.00	15.00	11-04-2020 15:50	8
*								

inventory

TRANSACTIONS

Transaction Type :-

Date :- 12 August 2020   Between 12 August 2020

SHOW ALL   Excel Sheet
SORT   Report

	id	type	dea_cust_id	grandTotal	transaction_date	ig	cg	sg
▶	69	Purchase	12	3342.37	11-04-2020 15:52	18.00	0.00	0.00
	70	Sales	12	629.18	11-04-2020 15:58	0.00	9.00	9.00
	1069	Sales	12	629.18	11-04-2020 16:24	0.00	9.00	9.00
	1070	Sales	0	20.00	11-04-2020 18:19	0.00	0.00	0.00
	2069	Purchase	12	288.14	13-04-2020 12:02	18.00	0.00	0.00
	3069	Purchase	0	1165.14	16-04-2020 17:56	0.00	9.00	9.00
	4069	Purchase	0	250.00	20-04-2020 17:21	0.00	9.00	9.00
	4070	Sales	0	572.56	20-04-2020 17:26	0.00	9.00	9.00
	4071	Purchase	0	2130.28	20-04-2020 17:38	0.00	9.00	9.00
	4072	Purchase	0	780.60	20-04-2020 17:46	0.00	9.00	9.00
	4073	Sales	0	229.02	20-04-2020 17:48	0.00	9.00	9.00
	5069	Sales	12	491.28	19-07-2020 14:38	0.00	9.00	9.00

TRANSACTION

USER DASHBOARD

IKEA SUPERMARKET

SUPERMARKET BILLING SYSTEM

Purchase

Dealer and Customer Details

Search		Email	Address	Bill Date 12 April 2020
Name		Contact		

Product Details

Search | Name | Inventory | Rate | Qty | **ADD**

Added Products

PURCHASE & SALES FORM

Discount

CGST

SGST

IGST

CALCULAT

SAVE

Calculation Details

Sub Total	0		
Discount (%)	0	Discount Amount	0
CGST (%)	0	CGST Amount	0
SGST (%)	0	SGST Amount	0
IGST (%)	0	IGST Amount	0
Grand Total	0		
Paid Amount	0		
Return Amount	0		

GST CALCULATE

IKEA SUPERMARKET

<u>Payment Voucher</u>

Voucher No. :   31211   **Date :**   20 April 2020

Sum of Rupeees (₹)	780
In Words :	Seven Hundred and Eighty Only
Paid To :	Kishor Kunbi
On Behalf Of :	Mitesh Gada

_____   _____
Prepared By   Received By

PAYMENT VOUCHER

IKEA SUPERMARKET

Shop No. :- 2,3,4,5, Beside Modern Cafe, D.R.
Road, Kurla (West) 400 001
Contact Nos. :- (022) 789546 / 456123

Bill No. :	1141
Date :	20 April 2020

Name : Patel Tejal

Address : Thane Kalher Bhiwandi Road Kapurbawdi (E)

ProductName	Qtv	Rate	Total
Milk	10	20.00	200.00
	SUB TOTAL		200.00
	DISCOUNT	2 %	4
	CGST (9%)		16.51
	SGST (9%)		16.51
	IGST (18%)		0
	GRAND TOTAL		229.0200

Notes :-

1) Goods once sold will not be taken back.

SALES VOUCHER

THANK YOU FOR YOUR VISIT.   Prepared By

Limitations :-

- The Inventory Management System makes use of Crystal Reports which are not portable.

- For the clients, the plug-in needs to be installed on their machine with Visual Studio and Sql Management Studio compatible versions.

- System design is hard to be customized for Client Needs.

- IMS is Desktop application, remote access is not possible.

Future Enhancement :-

- This is a prototype of Inventory Management System. In future software can enhanced or expanded.

- It can also incorporate different probability and classification techniques.

- E.G :-

  Decision Tree, other AI techniques like Record Report , Bill Generating Receipts using Crystal Report prescribed authorized by software owner.
  It will work with product rating using bar- code , sentiment analysis & opinion mining.

CONCLUSION :-

- As you can see the importance of inventory management is very serious, it is one of the most important aspects of any business. The aspect of this part of the business is whether or not you can satisfy the demand of your customers if you aren't sure if you have all the materials available to make the final product Without Wheeled the proper inventory management they would not be able to supply their customers with their ordered ambulance.

- And this product is what their entire business is based on, so it is of great importance When they are choosing from the different types of programs or automated systems to help with keeping records accurate, Wheeled to keep in mind that the customer is not concerned with which materials are needed to complete the finished product, but the product is operating as promised based on the contract.
  This is why they need to make sure that any processes or programs that they do decide to use are going to be beneficial to their needs as well as the needs to service their customers.

- In addition, the plans for the maintenance of having proper inventory levels need to be in place and also adjusted when the company grows and as the business dictates If Wheeled the new suggestions they will be on the right track to having a well established business.

THANK YOU