



# **THILAKA MULTI SHOP STOCK MANAGEMENT SYSTEM**

**GROUP-O**

## Declaration of Authorship

We Mr.A.Venuraj, Mr.A.Thushanthan, Mr.A.Aravinthan, Mr.P.Lanojan are here by certifying that this project titled “**Stock Management System**” is entirely our own work. It has been not submitted or it is not being concurrently submitted for any other degree.

.....  
A.Venuraj (2013/SP/041)

.....  
A.Thushanthan(2013/CSC/023)

.....  
A.Aravinthan (2013/CSC/021)

.....  
P.Lanojan (2013/CSC/016)

.....  
Supervisor,  
Dept of Computer Science,  
Faculty of Science.

.....  
Head of the dept,  
Dept of Computer Science,  
Faculty of Science.

## Contribution of each member

A.Venuraj

He is good in MySQL and he took a major part in connecting sql server to visual studio, develop the login page and data entry to the sql. Took part in developing billing system. Developed colorful interface.

A.Thushanthan

He gave the idea to do this stock management system for our software engineering course unit.

He is good in C# and he took a main part for develop the billing system in the short time interval and also help to build the project.

P.Lanojan

He helped to get the customer.

He is good in interface development and he took a part for creating interface and help to solve some problem in the code developing part.

A.Aravinthan

He also a good interface developer and he took a part for developing a colorful interface and also help to solve some problem in the coding part.

## Consent of the Client

Department of computer Science  
Faculty of science  
University of Jaffna

Kandipan  
ThilakaMulti-Shop  
Kokuvil,Jaffna

Sir,

**Requesting permission to use the stocks for implementing stock management system**

We are the computer science students from university of Jaffna. In our studies we need to implement a software for our graduation. we decided to implement stock management system for our project. Therefore We like to do this project using real data.

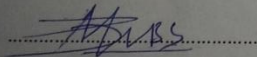
We kindly request you to give a permission to use your shop's data's and products for implement this software. We ensure that it will very useful for you and your shop.

Your Faithfully,

Students

Computer science.

I will give permission to these students to use our shop products and data for implement that software.



Owner of the shop

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## **Introduction**

### **Purpose of the project**

Stock management system is everywhere. Big shopping malls, Food cities, Super markets already have a stock management system. But srilankan economy is very poor. Most of the shops in srilanka don't have a proper stock management system. Therefore our group decided to solve this problem and we finalize our project as stock management system and also we didn't target the big shop , we consider only the small shop and we provide our software for free and make an awareness about importance of computer technology in the world.

### **Overview of the document**

In this documentation we consider about gathering requirements and the problem we met when gathering the information, software designs and the model graphs, special features in our software, the technical and physical challenges we met when implement the software and the references we use.



## Requirements Specifications

In the requirement collection we first deal with our customer .we first asked what they need.

Then we decided what are the requirements we need and we collect them from our customer.

We collect some bills from the shop for summarize our project and made a plan.

[illegible]

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T.P: 021 222 6013, 021 4921185.  
021 4921189, 021 222 6013

05/10/15

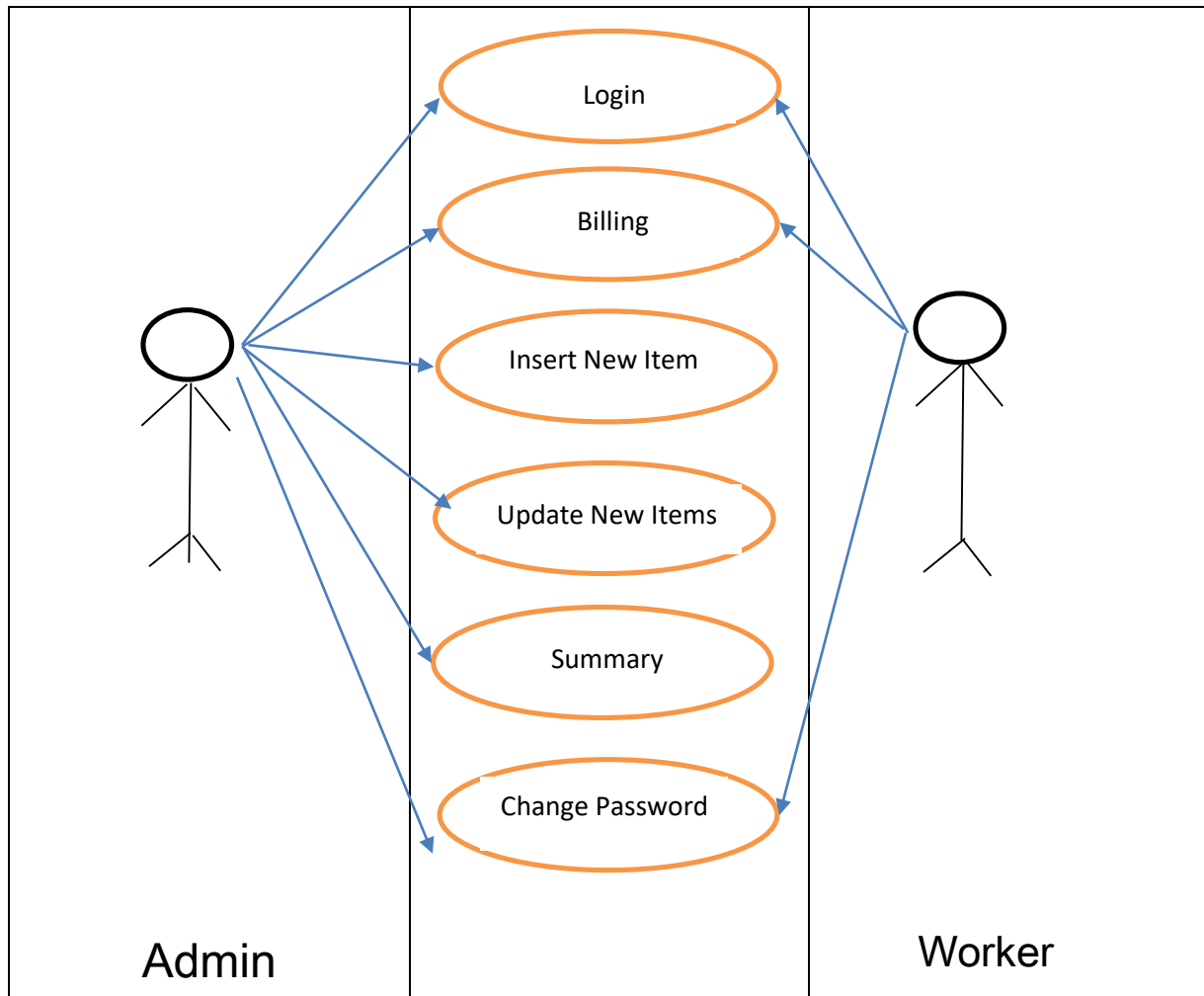
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1	Plaster		1560	
1	Plaster		120	
1	Plaster		120	
1	Plaster		680	
1	Plaster		10150	
1	Plaster		1800	
1	Plaster		11160	
1	Plaster		1345	
1	Plaster		1410	
1	Plaster		2310	
1	Plaster		2010	
1	Plaster		1425	
1	Plaster		900	
1	Plaster		2430	
1	Plaster		1250	
1	Plaster		1080	
1	Plaster		50760	

2045

[illegible]

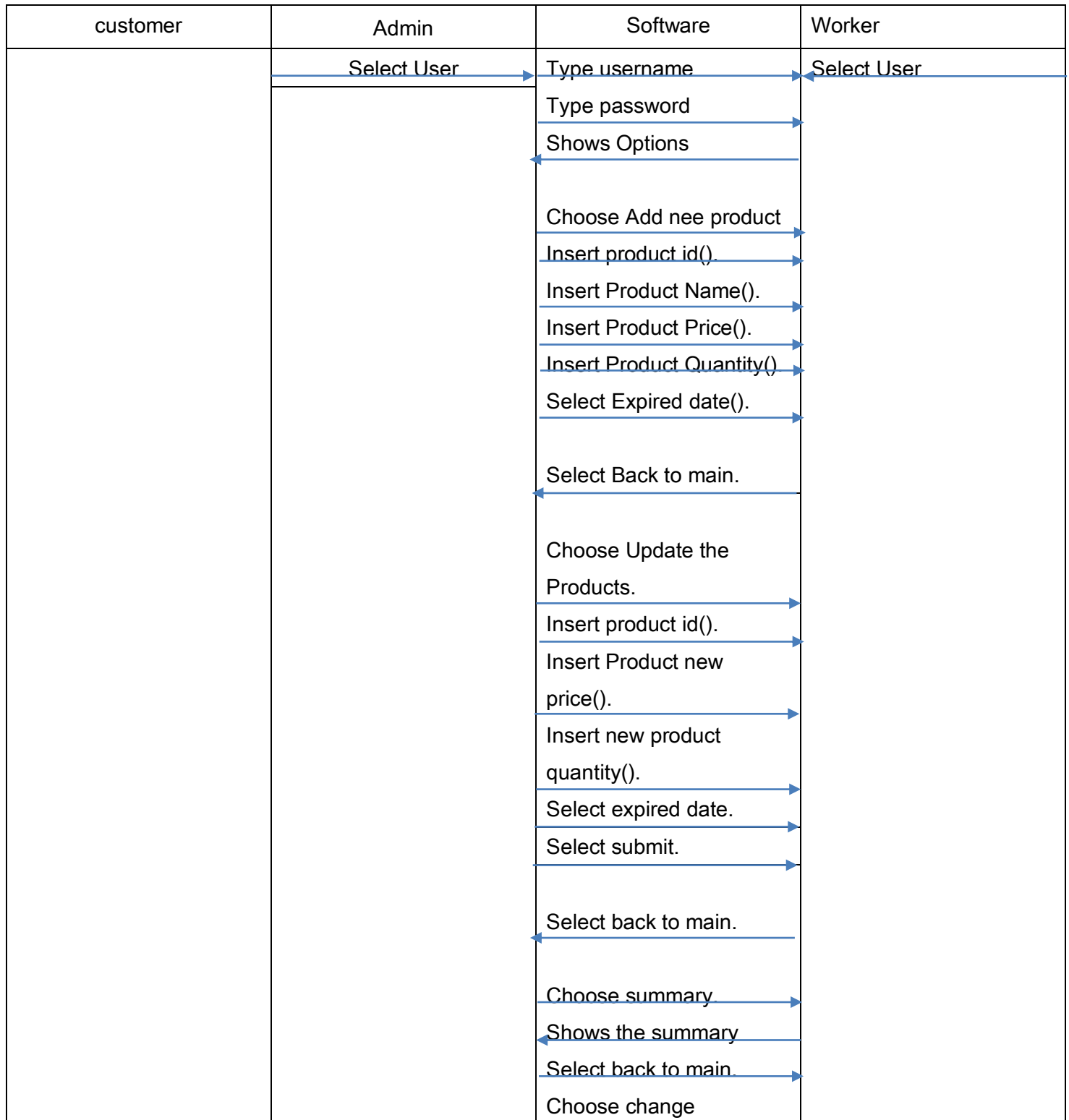
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Description	Rate	Rs.	Cts.	
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1/2 1/2 1/2		1200		
1/2 1/2 1/2		1000		
1/2 1/2 1/2		7810		
1/2 1/2 1/2		1530		
1/2 1/2 1/2		2100		
1/2 1/2 1/2		1271		
1/2 1/2 1/2		5021		
1/2 1/2 1/2		1710		
1/2 1/2 1/2		2160		
1/2 1/2 1/2		710		
1/2 1/2 1/2		930		
1/2 1/2 1/2		2460		
1/2 1/2 1/2		8100		
1/2 1/2 1/2		1200		
1/2 1/2 1/2		7910		
1/2 1/2 1/2		11160		
1/2 1/2 1/2		60130		
1/2 1/2 1/2		889		

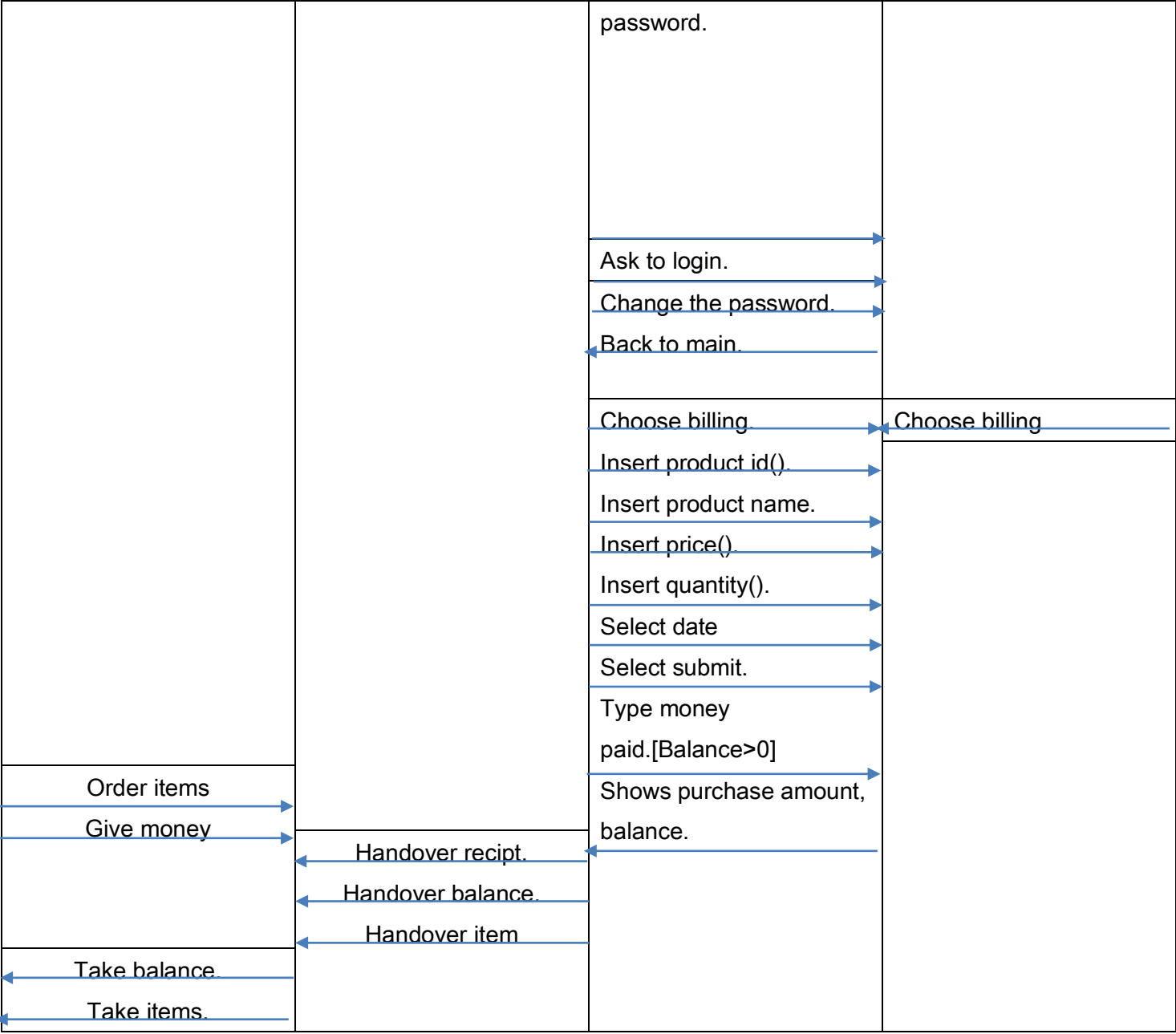
## Use case Diagram



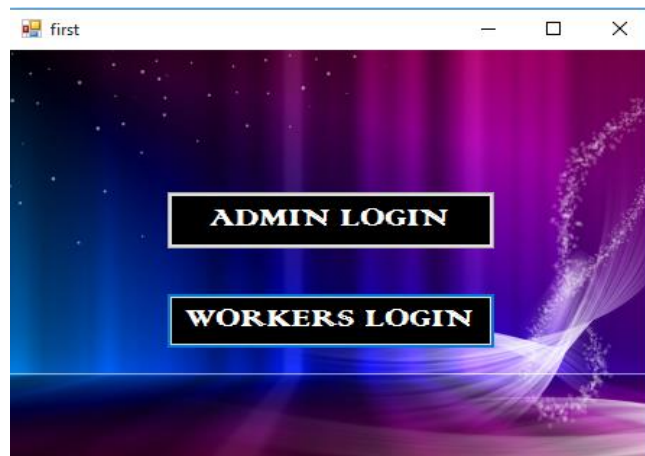


## Sequence Diagram





## Software Design



The 'ADMIN' login screen, titled 'loginA', has a dark background with colorful, swirling light patterns. It includes a 'User Name' input field, a 'Password' input field, and four buttons: 'LOG IN', 'EXIT', 'CHANGE PASSWORD', and a 'Back' button in the bottom right corner.

The 'WORKERS' login screen, titled 'loginW', has a dark background with colorful, swirling light patterns. It includes a 'User Name' input field, a 'Password' input field, and four buttons: 'LOG IN', 'EXIT', 'CHANGE PASSWORD', and a 'Back' button in the bottom right corner.

Enter Correct User Name and Password then click Login

The main menu screen, titled 'THILAKA MULTI-SHOP', features a background image of several colored pencils. It contains six buttons: 'BILLING', 'Insert New Item', 'Update New Item', 'Summary', 'CHANGE PASSWORD', and a 'Lock Out' button in the bottom left corner.

The 'BILLING SYSTEM' screen, titled 'billing', has a dark background with a blue and orange gradient. It includes a 'Product Name' input field with a dropdown menu showing items like 'dhal', 'sugar', 'milk', etc. Other fields include 'Id', 'name', 'price', 'quantity', 'date', and 'Money Paid'. There are four buttons: 'BACK TO MAIN', 'LOCK OUT', 'Submit', and 'BILL'.



| id | name | price | quantity |
| --- | --- | --- | --- |
| 1 | dhal | 70 | 90 |
| 2 | sugar | 23 | 778 |
| 3 | milk | 50 | 100 |
| 4 | white-rice | 80 | 84 |
id	name	price	quantity	date
1	dhal	70	90	2/20/2016
2	sugar	23	778	2/18/2016
3	milk	50	100	7/6/2016
4	white-rice	80	84	11/24/2019
5	brown-rice	75	196	5/22/2017
6	milk-powder	350	84	6/13/2017
7	chilly-powder	80	60	6/13/2017
8	solt	30	40	4/15/2016
9	bulb	50	15	2/20/2016

At the bottom, there are two buttons: 'Check the Less Quantity Items' and 'Summary'."/>

billing

# BILLING SYSTEM

[BACK TO MAIN](#) [LOCK OUT](#)

Product Name

- dhal
- sugar
- milk
- white-rice
- brown-rice
- milk-powder
- chilly-powder
- solt
- bulb

Id: 1

name: dhal

price: 70

quantity: 90

date: Saturday , February 20, 2016

[Submit](#)

Money Paid

[BILL](#)

Total



billing

# BILLING SYSTEM

[BACK TO MAIN](#) [LOCK OUT](#)

Product Name

- dhal
- sugar
- milk
- white-rice
- brown-rice
- milk-powder
- chilly-powder
- solt
- bulb

Id: 1

name: dhal

price: 70

quantity: 20

date: Saturday , February 20, 2016

[Submit](#)

Money Paid 2000

[BILL](#)

Total

1400



printing

# Thilaka Multi-Shop

Total Amount Customer Pay 2000

Purchase Amount 1400

Balance 600

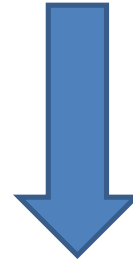
Thankyou.. Come Again.. :-)

[BACK](#)



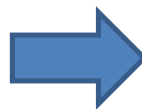


Click Change Password



Click Change Password

Directly goes here





## Implementation

### Tools, Techniques and Justification

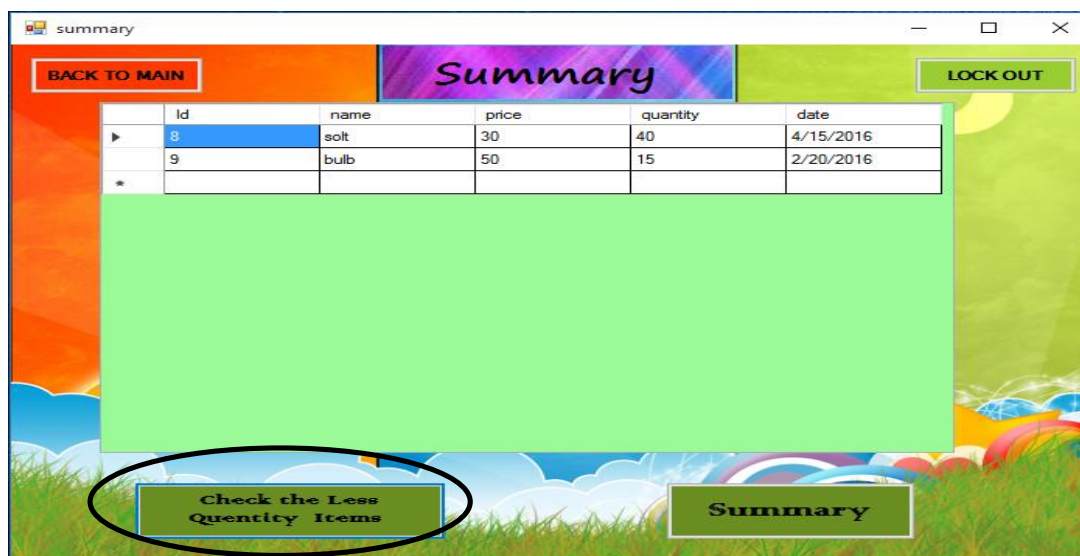
- In here we use visual studio for implement this software . In the visual studio we use C# language to implement this program.
- We used mysql server to store the data.

### Special Features

- Every time Admin login his page if the quantity of the product less than 50 it will automatically show some message to refill the quantity.



- In the Summary we can easily find the products which are less than 50 in its quantity .



- In the update we easily find the product id by typing the product name in the left side.

The screenshot shows a web application window titled 'update'. The main heading is 'UPDATE THE PRODUCTS'. There are two buttons at the top: 'BACK TO MAIN' and 'LOCK OUT'. Below the heading, there are four input fields: 'Product Id', 'Product New Price', 'Product New Quantity', and 'Expired Date'. The 'Expired Date' field is set to '2016-02-25'. A 'SUBMIT' button is located below these fields. On the right side, there is a search bar labeled 'Type Your Product Name' with the text 'mi' entered. Below the search bar is a table with the following data:

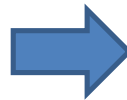
	Id	name	price	quantity
▶	3	milk	50	100
	6	milk-powder	350	84
*				

- In the Billing system we can easily find all the details about the product by typing the product name in the left side text box. Specially it will show the expired date ,so the seller assure the product can be used.

The screenshot shows a web application window titled 'billing'. The main heading is 'BILLING SYSTEM'. There are two buttons at the top: 'BACK TO MAIN' and 'LOCK OUT'. Below the heading, there is a search bar labeled 'Product Name' with the text 'milk-' entered. Below the search bar is a list box containing 'milk-powder'. To the right of the list box, there are several input fields: 'Id:' (6), 'name:' (milk-powder), 'price:' (350), 'quantity:' (84), and 'date:' (Tuesday, June 13, 2017). A 'Submit' button is located below these fields. Below the 'Submit' button, there is a 'Money Paid' input field and a 'BILL' button. On the right side, there is a 'Total' label.

- In the forgot password, sometime if we forgot the username and password then it has a another option called pet name. We can type the pet name and easily change the username and password.

The screenshot shows a window titled 'changepass' with a green background and a tree illustration. It contains three input fields: 'Enter the old User Name', 'Enter the old Password', and 'What is your Pet Name' (with 'puppy' entered). There are 'Back' and 'Submit' buttons. The word 'OR' is centered between the password and pet name sections.



The screenshot shows a window titled 'changepasscon' with the same green background and tree illustration. It contains four input fields: 'Enter your Old User Name', 'Enter your New User Name', 'Enter your new Password', and 'Enter your new your Pet Name'. There are 'Back' and 'CHANGE' buttons.

## Discussions and challenges

- We have a challenge came from selecting a project and finally with many analysis we decided to do a stock management system for a small shops for free.
- We have a challenge came from selecting a platform what we use, then we decided to do the project using visual studio C#. We are starters for visual studio so it is little hard and give a new experience for us.
- We have some technical and cording problem occurred and by using internet we solve the problems.
- Sometime the cording is correct but there are some bugs occurred.

## References

- Watching some YouTube videos.
- We got some coding from internet.
- We got some help from our demonstrators.
- We get some ideas from our seiners

## Appendices

Need a copy of our software please contact

A.Venuraj      VenurajAllirajah@gmail.com