



Daffodil
International
University

A PROJECT REPORT

ON

“ Stock sell management system POS”

Submitted in partial fulfillment for
the Course of
Database Management System Laboratory

Submitted by:

S/L	Name	ID
1	Raiyan Kawser	161-15-1008

Submitted to

Rubel Sheikh

Lecturer

Department of Computer Science and Engineering
Daffodil International University

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CHAPTER 1

INTRODUCTION

1.1 PROJECT AIMS AND OBJECTIVES

To ensure continuous supply of materials spares and finished goods so that production should not suffer at any time and the customer's demand should also be met. Avoid both overstocking and under-stocking of inventory. For maintain investment in inventories at the optimum level as required by the operational and sales activities. To keep materials cost under control so that they contribute in reducing cost of production and overall cost. Keep inventory at sufficiently high level to perform production and sales activities smoothly. Minimize carrying cost of inventory. Make stability in price.

1.2 BACKGROUND OF THE PROJECT

Point of sale inventory management system allows a business owner to have more than one business location and adequately keep track of inventory at each without being present. No more worries about employee theft or pricing inconsistency between one location and another. The boss can be away and not worry about employee theft. Employee efficiency can be maintained. Point of sale systems take care of those problems that result when management isn't present.

In an early age when the most of the company are still using the manual system in the sales and inventory most of the company encountered so many problems and this is because of the process of the existing system is too slow and too long. According to Kaye Morris (2010), manual inventory management system can help sales and production managers control costs by identifying lost sales due to inventory shortages; inventory overrides on products that are not selling; losses due to employee's theft or damage. Implementing an inventory management system can take a large amount of time depending on the size and diversity of inventory.

To overcome the deficiencies of manual system, many companies have automated their inventory system. This system is used to track or monitor the merchandise and goods of a retail store. With an automated Sales and Inventory System, business rely on computers to do tasks that were once performed manually, such as inventory check and product sales. Automated Sales and Inventory System these process can be handled in a timely manner and also be more accurate and reliable than ever before (Hartman, n.d.). It provides greater accuracy and more flexibility in the types of information and reports that can be generated by the system. Point-of-sale systems have replaced traditional cash registers, largely for functionality reasons. POS systems, as they are sometimes called, are relatively easy to use and help provide valuable data for important decision makers. In order to keep up with the record-keeping needs of small and mid-sized businesses, a good point-of-sale system is a must. Web-based point-of-sale systems are preferred over software based pos systems because they are easily upgradeable, and feature access from multiple computers. The best thing about having a computerized POS System in your retail business is: as new stocks arrives and as it is sold, it keeps the stock levels current and updated, hence making it is easier to identify which items are selling and which items are not. A POS System is also good in checking for any obsolete or out of date stock that needs to be disposed. If you are still counting your inventory manually on the shelves or in the warehouse, you should think twice about your method, for there are many advantages in using a POS System. One advantage of a POS System is its ability to help your business 3 achieve detailed real-time stock level information. In addition, a POS System can also give you information such as weather forecasts, public holidays and major sporting events, which can be of great help in determining the stock level of seasonal products. You can now efficiently and effectively handle your stock management accurately

1.3 SCOPE OF THE PROJECT

- Determination of economic order quantity
- Formulation of policy
- Determination of lead time
- Effectiveness towards running of store
- Organization structure

They can cover many needs, including valuing the inventory, measuring the change in inventory and planning for future inventory levels. The value of the inventory at the end of each period provides a basis for financial reporting on the balance sheet. Measuring the change in inventory allows the company to determine the cost of inventory sold during the period. This allows the company to plan for future inventory needs.

CHAPTER 2

SYSTEM ANALYSIS

2.1 SOFTWARE REQUIREMENT SPECIFICATION

Computer

Windows

XAMPP

MySQL

2.2 EXISTING VS PROPOSED

Existing

Existing softwares are highly expensive.

Don't have all in one software.

Different software will needed.

Report needs to be checked Manually.

Search function not so useful.

Much more limitation in them

Proposed

Fully Smart.

All sort of branches in the system.

Cheap.

Access to every reports.

All in one place.

2.3 SOFTWARE TOOL USED

TOOLS

- XAMPP/WAMPP Server
- NetBeans
- Operating System Windows/MAC
- Notepad

CHAPTER 3

SYSTEM DESIGN

3.1 Database Table Design

Database: database_project, Table: customers, Purpose: Dumping data

id	username	first_name	last_name	mobile	email	NID	address	address2	About	Issuer	date	due	Expected_Payment_Date	DateofJoin	Card
1	Ryan	Ryan	sarar	01515205628	raiyan0@gmail.com	value-8	North Kafrul	value-10	value	raiyan	2021-04-09	0	0000-00-00	2021-04-09	0

Database: database_project, Table: due_report, Purpose: Dumping data

id	Username	Username	Total_Due	Total_Due	Paid	Paid	Due	Issue	Issue	Date	Date
18	Customer 1		700		700	0.0	raiyan			2020-10-03	

Database: database_project, Table: expense, Purpose: Dumping data

id	bill_no	company	receiver	amount	issuer	type	description	date	date
1	1	raiyan	raiyan	50	raiyan		raiyan	2021-04-09	

Database: database_project, Table: history, Purpose: Dumping data

id	Username	Date	Time
502	raiyan	2020-10-03	19:34:00

Database: database_project, Table: products, Purpose: Dumping data

id	Name	Issuer	Price	Purchase_Price	Quantity	Company	Type	qty_alert	Location	Date	doe	Article_No	Total_price	total_purchase_price
1	Chips	raiyan	50	48	10				0 kafrul	2021-04-09	0000-00-00	111	500	480

Database: database_project, Table: product_types, Purpose: Dumping data

id	Type_Name	Description	Date
11	food	Catagory Details	2020-11-07
12	drink	Catagory Details	2020-11-07
13	vagitables	Catagory Details	2020-11-07
14	dried food	Catagory Details	2020-11-07
15	grocery	Catagory Details	2020-11-07
16	liquid	Catagory Details	2020-11-07
17	imported	Catagory Details	2020-11-19
18	local	Catagory Details	2020-11-19
19	fruites	Catagory Details	2020-11-19
20	chocoletes	Catagory Details	2020-11-19
21	snack	Catagory Details	2020-11-26
22	ice cream	Catagory Details	2020-11-26

Database: database_project, Table: refill, Purpose: Dumping data

id	product_name	company	price	ssuer	date
001	chips		0	raiyan	2021-04-09

Database: database_project, Table: settings, Purpose: Dumping data

id	Username	mobile	company	company_info	address	Issuer	color	background	sidebar	full_screen	show_details	expire_month	number_of_products	exit_on_exit_close	date	Shipping_Cost	PC_Backup	Email_Backup	Backup_Email	SMTP_HOST	Email_Login	Pass_Login	Backup_Timing	Automatic_Update	Version
1		011151205028	Raiyan	Raiyan	North Kuful Dhaka	raiyan	Pink	20c196196	No	Enabled		1	5	No	2019-02-01	100	No	No	raiyanhkan@gmail.com				Every Day	Yes	1.0

Database: database_project, Table: sold, Purpose: Dumping data

id	Username	Product_Cost	Total_Prie	Paid	Payment	Vat	Due	Discount	Others	Issuer	Shipping	Date
1	New	68.0	68.0	68.0	PAID	0	0	0	0		No	2020-12-20

Database: database_project, Table: sold_report, Purpose: Dumping data

id	id	Username	Product	Quantity	Price	Total_Price	purchase_price	Issuer	Payment	Date	Custom_ID
1		Ryan	Chips	1	68	68.0	60		PAID	2020-12-20	1

Database: database_project, Table: suppliers, Purpose: Dumping data

id	company	agency	name	mobile	email	gender	address	details	accountn	issuer	datedate
1	B	0	N	0	0	Male	0	0	0		2020-10-30

Database: database_project, Table: users, Purpose: Dumping data

id	username	password	user_type	Account_Report_Access	Sell_Access	Input_Access	Expense_Access	Due_Access	Delete_Access	name	age	mobile	id	email	address	Issuer	date	date_of_joinin
1	Raiyan	\$2u\$10\$ovGPMkqB\$1mX9pKc2Lh2V9fnew\$7casd4qyqgM7t2ZLF1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Raiyan	57	01515205628	1111	raiyan1515008@du.edu.bd	North Kuful	Raiyan	2020-10-29	2020-10-29

Database: database_project, Table: withdraw, Purpose: Dumping data

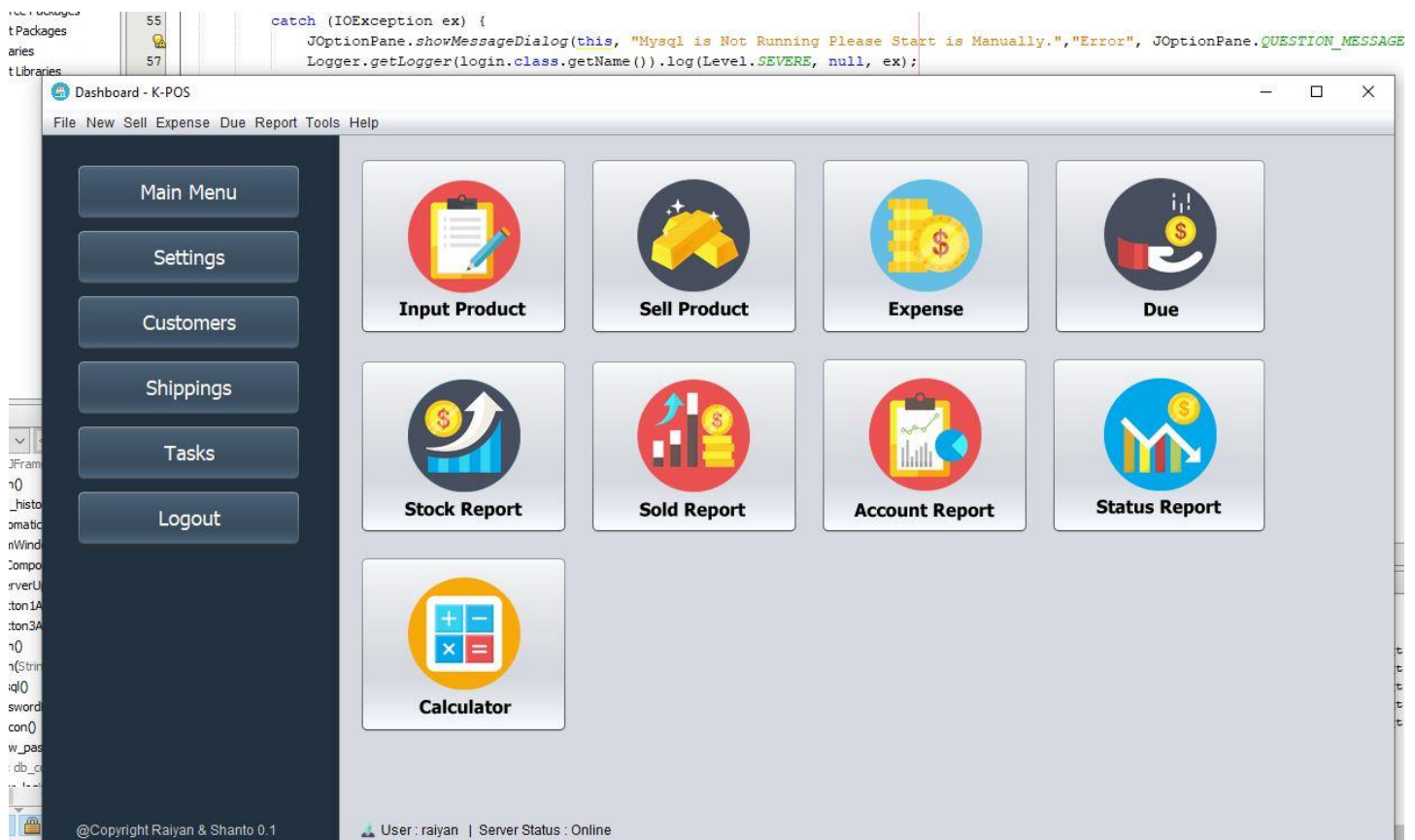
Id	available	commission	withdraw	balance	issuer	date	withdraw_reason
1	0	0	0	0	raiyan	2021-04-09	

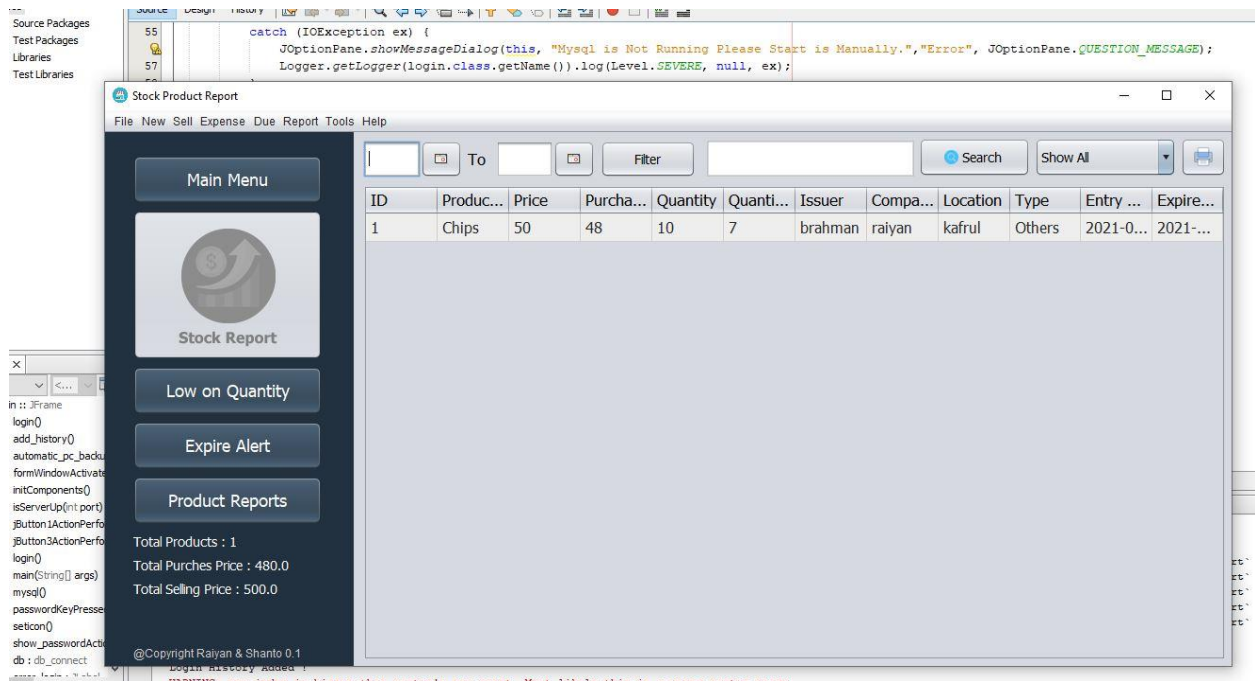
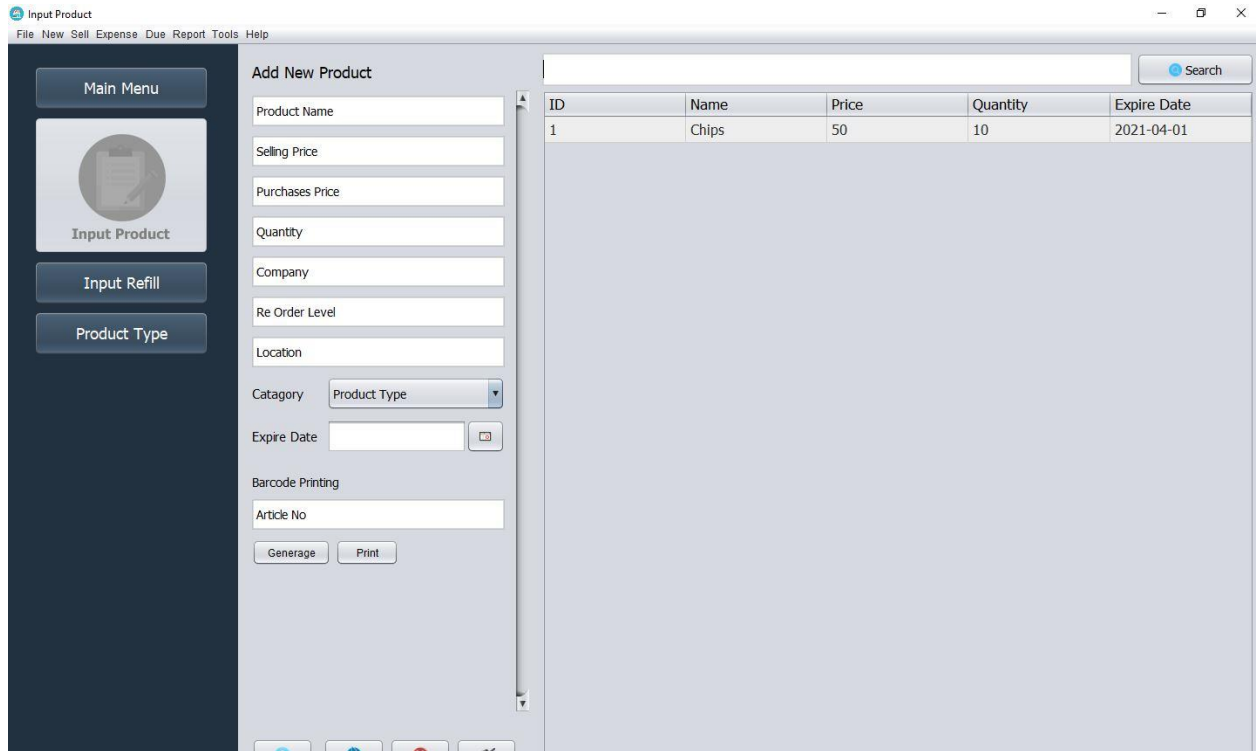
CHAPTER 4

SYSTEM IMPLEMENTATION

4.1 MODULE SCREEN SHOTS

4.1.1 Software interface Design





3

Modules

Service

44:16 PM
44:16 PM
44:16 PM
44:16 PM
44:19 PM
44:19 PM
44:20 PM
44:20 PM

XAMPP Control Panel v3.2.4

Sold Product Report

File New Sell Expense Due Report Tools Help

Main Menu

Sold Report

Product Reports

Due Report

Total Item : 21
Total Refill Item : 0
Total Sold Price : 9333
Total Refill (Quantity) : 0
Total Refill : 0
Total Refill (Today) : 0

To

Filter

Sold Report

ID	Custo...	Produ...	Total ...	Vat	Due	Disco...	Others	Paid	Paym...	I
21	New	220.0	220.0	0	0	0	0	220.0	PAID	r
20	New	580.0	580.0	0	0	0	0	580.0	PAID	r
19	New	125.0	125.0	0	0	0	0	125.0	PAID	r
18	New	100.0	100.0	0	0	0	0	100.0	PAID	r
17	New	480.0	480.0	0	0	0	0	480.0	PAID	r

test Libraries

45
46

```
public sell() {  
    setFocusTraversalKeysEnabled(false);  
    full_screen();  
}
```

Expense

File New Sell Expense Due Report Tools Help

Main Menu

Expense

Input Expense

Bill No

Company

Reciver Name

Ammount

Description

Type

Cash

+ ↺ ✖ 🗑

Search


ID	Bill No	Reciver ...	Ammount	Type	Issuer	Date
1	8679809	raiyan	999	Cash	brahman	2021-04...

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Test Libraries

```
45 public sell() {  
46     setFocusTraversalKeysEnabled(false);  
47     full_screen();  
48     this.removeAll();
```

Main Menu



Status Report

45 public sell() {
46 setFocusTraversalKeysEnabled(false);
47 full_screen();
48 this.removeAll();

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File New Sell Expense Due Report Tools Help


To

Filter

Today's

This Month's

Total



Today's	Purchase Price	Selling Price	Profit	Expense	Paid	Due	Cash on Hand
0	0	0	0	999	0	0	0

TitlePrice

Purchases Price0

Selling Price0

Profit0

Expenses999

Items Sold0


Customers0

Paid0

Due0

Cash on Hand0

Main Menu



Sell Product

All Products

All Customers

Refill Ticket

Refill Products

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Product Status

File New Sell Expense Due Report Tools Help

Products

Search

ID	Product ...	Price	Quantity	Issuer	Company	Type	Entry Date	Expire ...
1	Chips	50	10	brahman	raiyan	Others	2021-0...	2021-0...

Delete

Check User

Customer

New

1

Add to Cart

ID	Product ...	Quantity	Price	Total Price	Purchase...	Issuer	Date
----	-------------	----------	-------	-------------	-------------	--------	------

Subtotal0

Vat0

Due0

Discount0

Others0

Paid0

Total0

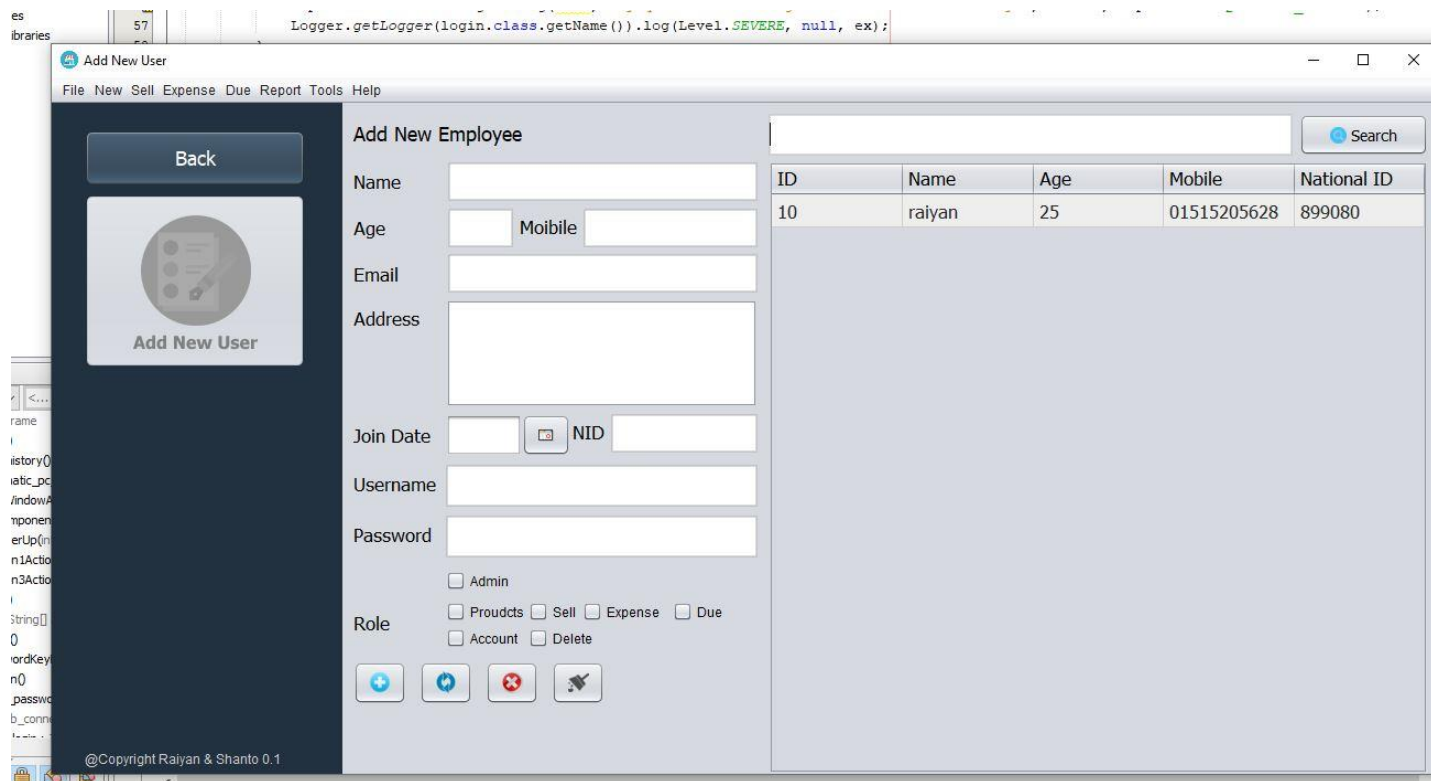
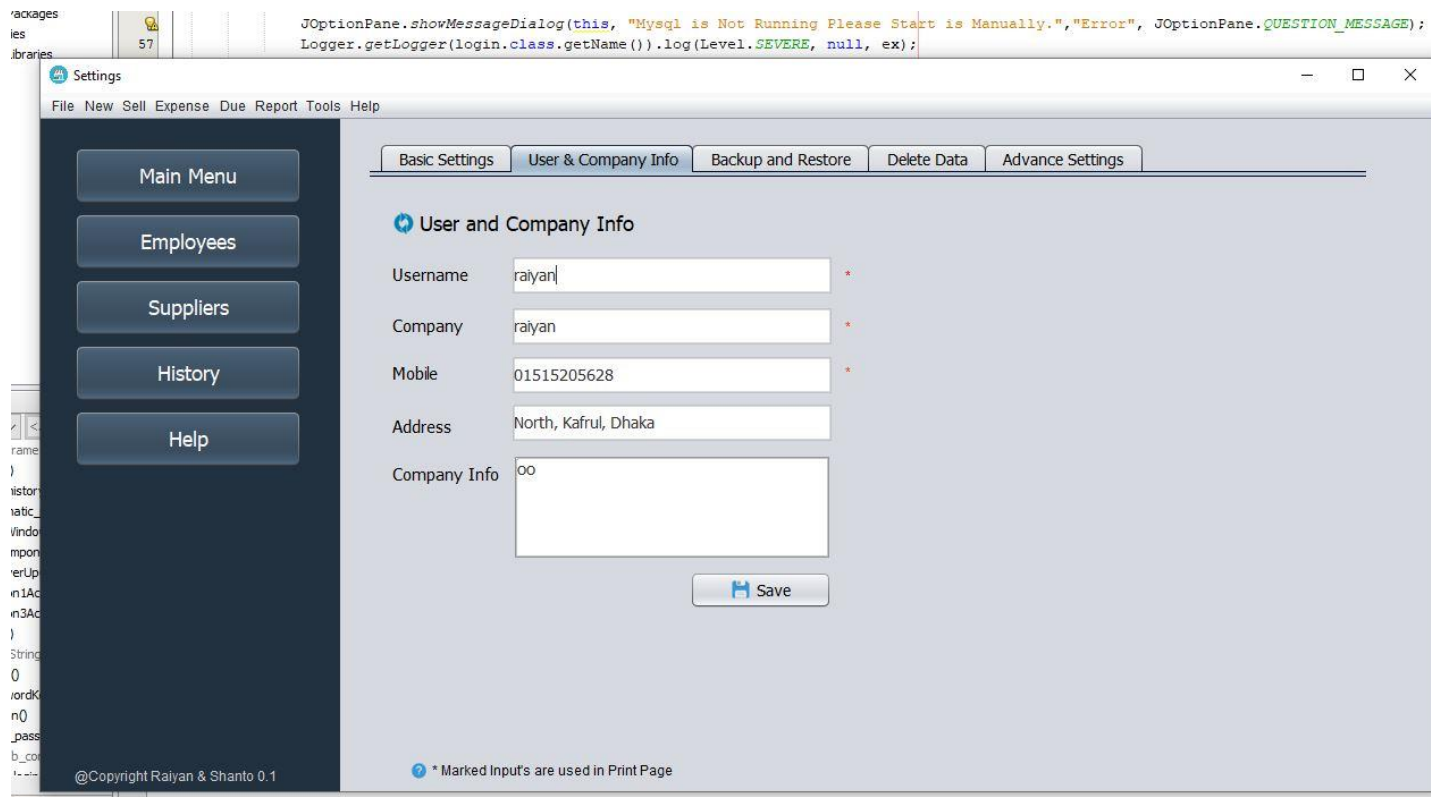
Shipping☐ Yes / No

Calculate

Due

CashCash

Error Connecting Database. com.mysql.jdbc.MySQLDataTruncation: Data truncation: Incorrect integer value: 'Re Order Level' for co
Error Connecting Database. com.mysql.jdbc.MySQLDataTruncation: Data truncation: Incorrect integer value: 'Re Order Level' for co



CHAPTER 5

SYSTEM TESTING

Adding a product

The screenshot shows the 'Input Product' application window. On the left is a sidebar with 'Main Menu' and buttons for 'Input Product', 'Input Refill', and 'Product Type'. The 'Input Product' button is highlighted. The main area is titled 'Add New Product' and contains several input fields: 'Biscuit' (text), '40' (text), '38' (text), '2' (text), 'v' (text), '7' (text), and 'R' (text). Below these is a 'Catagory' dropdown menu set to 'Product Type'. The 'Expire Date' is set to 'Oct 21, 2021'. The 'Barcode Printing' section shows '0787'. At the bottom are 'Generage' and 'Print' buttons. A hand-drawn arrow points to the 'Generage' button. On the right, a table shows the product list with columns 'ID', 'Name', 'Price', 'Quantity', and 'Expire Date'. The table contains two rows: ID 2, Biscuit, 40, 2, 2021-10-21 and ID 1, Chips, 50, 10, 2021-10-21.

ID	Name	Price	Quantity	Expire Date
2	Biscuit	40	2	2021-10-21
1	Chips	50	10	2021-10-21

The screenshot shows the 'Input Product' application window. On the left is a sidebar with 'Main Menu' and buttons for 'Input Product', 'Input Refill', and 'Product Type'. The 'Input Product' button is highlighted. The main area is titled 'Add New Product' and contains several input fields: 'Biscuit' (text), '40' (text), '38' (text), '2' (text), 'v' (text), '7' (text), and 'R' (text). Below these is a 'Catagory' dropdown menu set to 'Product Type'. The 'Expire Date' is set to 'Oct 21, 2021'. The 'Barcode Printing' section shows '0787'. At the bottom are 'Generage' and 'Print' buttons. On the right, a table shows the product list with columns 'ID', 'Name', 'Price', 'Quantity', and 'Expire Date'. The table contains two rows: ID 2, Biscuit, 40, 2, 2021-10-21 and ID 1, Chips, 50, 10, 2021-10-21.

ID	Name	Price	Quantity	Expire Date
2	Biscuit	40	2	2021-10-21
1	Chips	50	10	2021-10-21

Product will insert into database:

```
INSERT INTO `products`(`id`,`Name`,`Issuer`,`Price`,`Purchase_Price`,  
`Quantity`,`Company`,`Type`,`qty_alert`,`Location`,`Date`,`doe`,  
`Article_No`,`total_price`,`total_purchase_price`) VALUES  
(2,'Biscuit','raiyan','40','38','2','V','','','R','2021-10-21','','0787','80','76')
```

Product table


Database: database_project, Table: products, Purpose:
Dumping data

id	Name	Issuer	Price	Purchase_Price	Quantity	Company	Type	qty_alert	Location	Date	doe	Article_No	Total_price	total_purchase_price
1	Chips	raiyan	50	48	10	c		0	kafrul	2021-04-09	0000-00-00	111	500	480
2	Biscuit	raiyan		40	38	V		0	R	2021-10-21	0000-00-00	0787	80	76

Adding New Customer

File New Sell Expense Due Report Tools Help

Exit



New Customer

Add New Customer

Tamim

Tamim

Hasan

01515205628

dwdewd@gmail.com

Join Apr 8, 2021

97089

north kafrul

0





0

Previous Due

0

Card No

9088845




ID	Username	First Name	Last Name	Mobile
1	ryan	ryan	sarar	01515205628

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Add New Customer

File New Sell Expense Due Report Tools Help

Exit



New Customer

Customer Successfully Added !

Add New Customer

Username

First Name

Last Name

Mobile

Email





Join Apr 9, 2021

National Id

Address

Address 2

About



Search

ID	Username	First Name	Last Name	Mobile	Date
2	Tamim	Tamim	Hasan	01515205...	2021-04-09
1	ryan	ryan	sarar	01515205...	2021-04-09

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Customer will insert into database:

```
INSERT INTO `customers`(`id`,`image`,`username`,`first_name`,`last_name`,`mobile`,`email`,`NID`,`address`,`address2`,`About`,`Issuer`,`date`,`due`,`Expected_Payment_Date`,`DateofJoin`,`Card`) VALUES (2,'Tamim',Tamim,Hasan,'01515205628','dwdewd@gmail.com','97089','north kafrul','','','raiyan','2021-04-08','0','0, 2021-04-08',9088845)
```

Customer table

Database: database_project, Table: customers, Purpose: Dumping data

id	username	first_name	last_name	mobile	email	NID	address	address2	About	Issuer	date	due	Expected_Payment_Date	DateofJoin	Card
1	Ryan	Ryan	sarar	01515205628	raiyankhan0@gmail.com		North Kafrul			raiyan	2021-04-09	0	0000-00-00	2021-04-09	0
2	Tamim	Tamim	Hasan	01515205628	raiyankhan0@gmail.com	97089	North Kafrul			raiyan		0			9088845

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

Future Scope

- Determination of economic order quantity
- Formulation of policy
- Determination of lead time
- Effectiveness towards running of store
- Organization structure.

They can cover many needs, including valuing the inventory, measuring the change in inventory and planning for future inventory levels. The value of the inventory at the end of each period provides a basis for financial reporting on the balance sheet. Measuring the change in inventory allows the company to determine the cost of inventory sold during the period. This allows the company to plan for future inventory needs.

Conclusion

Inventory management has to do with keeping accurate records of goods that are ready for shipment. This often means having enough stock of goods to the inventory totals as well as subtracting the most recent shipments of finished goods to buyers. When the company has a return policy in place, there is usually a sub-category contained in the finished goods inventory to account for any returned goods that are reclassified or second grade quality. Accurately maintaining figures on the finished goods inventory makes it possible to quickly convey information to sales personnel as to what is available and ready for shipment at any given time by buyer. Inventory management is important for keeping costs down, while meeting regulation. Supply and demand is a delicate balance, and inventory management hopes to ensure that the balance is undisturbed. Highly trained Inventory management and high-quality software will help make Inventory management a success. The ROI of Inventory management will be seen in the forms of increased revenue and profits, positive employee atmosphere, and on overall increase of customer satisfaction.

CHAPTER 7

REFERENCES

<https://github.com/raiyansarar/stock-sell-management-system-POS>

<https://en.wikipedia.org/>

<https://netbeans.apache.org/>