



# THE DEPARTMENT STORE

## PHP Project Report

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# Abstract

The project entitled “Department Store Management Information System (DSMIS)” is a system for automating the marketing and billing system of the department store. This system keeps the information related to the management of the department store. This includes product, staff, stock, sale and purchase information, current business status, billing system, order details, transaction report, etc. This project mainly focuses on easing the daily tasks of a department store. This project is the combination of database management system, management information system and local networking. A shared resource that includes the database are accessed simultaneously by the different users i.e. administrator and purchase/sales manager at different corner of the same departmental store.

## Introduction

The use of computer today is in peak point and each and every field uses computer system for the fast processing and security of the data. Management Information System (MIS) is one of the business fields where computers have made the tasks easier, more efficient and organized. A 'MIS' is a planned system of the collection, processing, storage and dissemination of data in the form of information needed to carry out the management functions. Simply, it is the system that provides information needed to manage organization effectively.

Department stores can be benefitted by Management Information System as it increases the productivity of the staff, organization of the records and decreases the overall work load. Hence, Department Store Management Information System can be considered as an integral part of any modern department store.

Department Store Management Information System comprises of maintaining and updating inventory records with their attributes such as product identity number, price, available stock, etc. Next feature is the billing system which calculates and prints the invoice for the customers at different Point of Sales (POS). The inventory is updated accordingly and the transactions are recorded in the database. Employees will get access to particular fields with their ID and password. For example cashiers will get access to the billing system only while the managers will get access to inventory and transactions records. Overall, the system is the combination of the Management Information system, Database Management system, Transaction Processing system and Decision Support system.

# Objectives and Scope

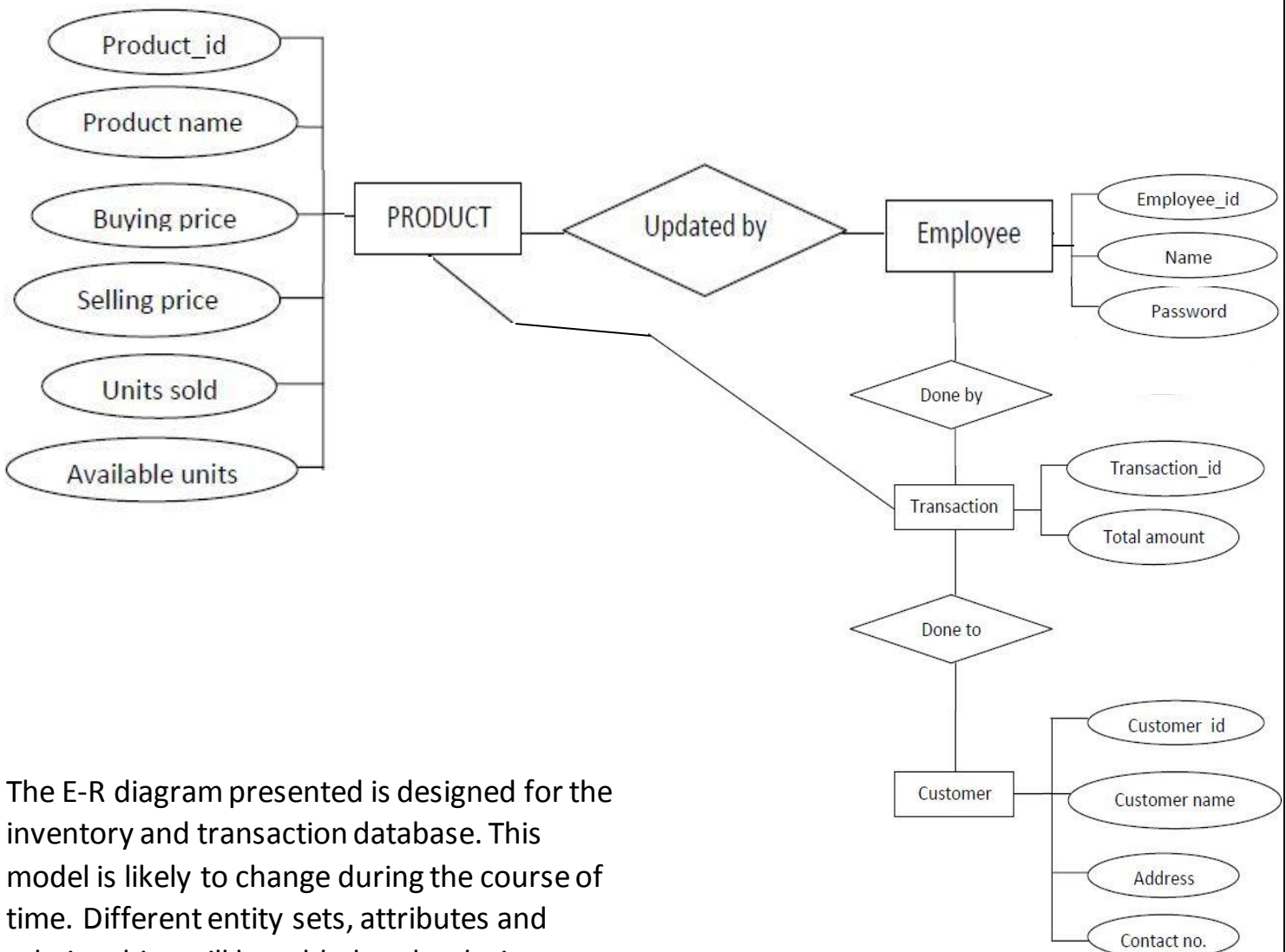
The main objectives of our projects are listed as follows:

- To develop a Management Information System (MIS) to automate the management of a department store.
- To develop a billing system for points of sales (POS) in the department store.
- To develop an Inventory Management System so as to record and update stocks as well as transactions.
- To build an Executive and Decision Support Systems (ESS and DSS) for the purpose of business analysis and reporting.

## Methodology

### E-R Diagram

The entity relationships diagram of the inventory and transaction database is shown below:-



The E-R diagram presented is designed for the inventory and transaction database. This model is likely to change during the course of time. Different entity sets, attributes and relationships will be added to the design according to the needs of the Department Store MIS.

# Description of the Proposed System

## System Block Diagram

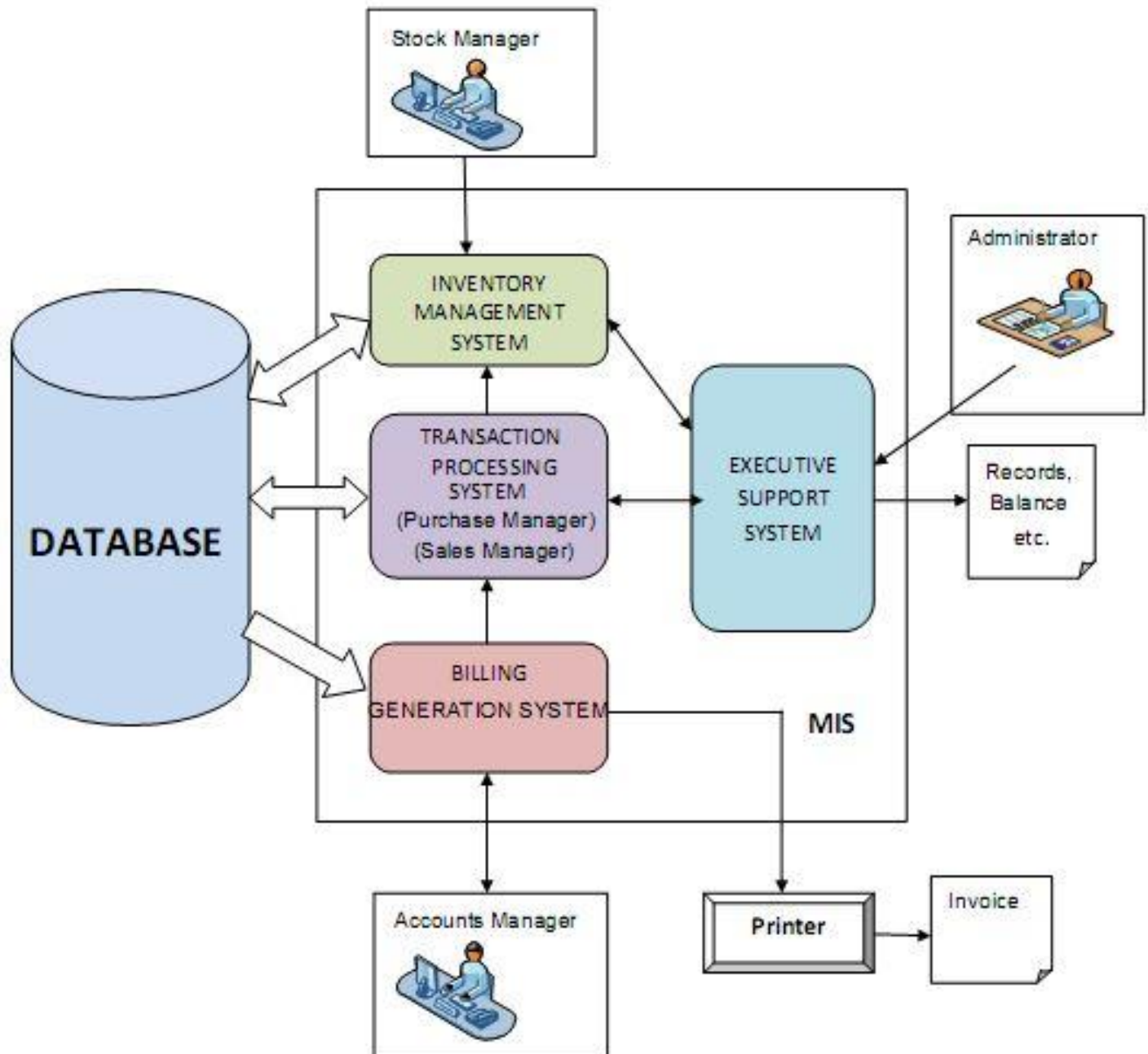


Figure 2: System Block Diagram

The Department Store Management Information System is divided into following parts:

1. Database
2. Inventory Management System
3. Transaction Processing System
4. Billing System
5. Executive Support System

**1. Database:** The database stores the inventory and transaction records. The inventory includes product information such as product ID, name, quantity, price, etc. It contains every transaction records and information such as customer info. It also maintains the record of employees and their login password.

**2. Inventory Management System:** This system includes tools for entering and updating the records in the inventory. The task is done by inventory manager. This system automatically updates the inventory after the sale of any product.

**3. Transaction Processing System:** This system is connected with the bill generation system and is responsible for storing every transaction in the database.

**4. Billing System:** The billing system creates and prints the invoice after product entry at the Point of Sale (POS) by the sales manager. The sales manager can sell the product by entering the customer ID or by registering a new customer. The invoice number, date, price of the specific product, total cost will be automatically generated and calculated. After the completion of product entry, the invoice will be printed in a standard format from a printer interfaced with the computers.

**5. Executive Support System:** This system acts as a reporting tool that generates records and analysis such as deposits/withdraws for the department store administrator. This system is connected with the Database, Inventory Management System and Transaction processing System and extracts required data needed for analysis.

As soon as the application is started, user login window is displayed. The employee will enter his/her user ID and password after which the system will open the particular application window. Suppose the employee is stock manager then inventory management system will start. Whereas the manager can access the executive support system as well as bill generation and inventory management system. The system will determine the post of the employee from the user ID and password. The number of computers is usually more than one since there are multiple POS terminals in a departmental store. So, all the computers are locally networked so as to access and modify common database.

## Additional Features

- Two way user authentication
- Form validation
- Session for individual users
- Live Project
- Maintenance of different records –
  - Stock
  - Deposit/Withdraw
  - Customer Information
  - Purchase/Sales

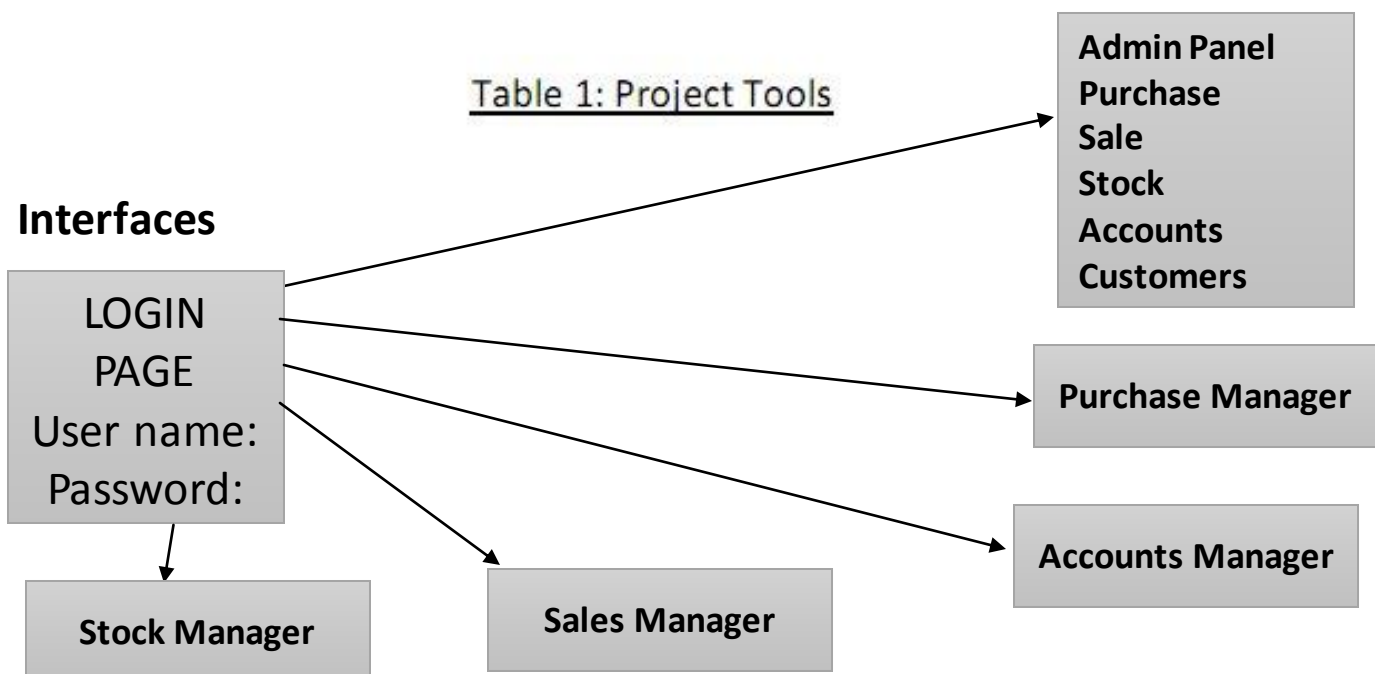
## Technical Description

This project is widely based on database management system which includes accessing, adding, and modifying the contents of database. The system also has the Get Bill option which generates the bill in the browser window.

S.N.	Tools/Language/Software	Purpose
1.	Notepad ++	Interface for Programming
2.	Wamp Server	Development kit
3.	PHP, HTML, CSS	Programming Language
4.	Microsoft Windows 7 / XP	OS for Development and Testing
5.	MS Word / MS Excel / MS PowerPoint	Documentation
6.	pHp My Admin	Database tool

Table 1: Project Tools

## Interfaces




## Login Screen

u2130105.nettech.net.in

Facebook India Rail Info Textng TV Shows Blogs TV.com Iphone Moviez! Tips & Tricks Buy funMaza.com Cricinfo Yahoo! Mail Gmail World4free Other bookmarks

WELCOME



Varun Enterprises

Login

UserName :  (created during Registration)

Password :

Submit



Varun Enterprises

Login

UserName : admin (created during Registration)

Password :

Submit

## Two Way Authentication

The page at u2130105.nettech.net.in says:

An email has been sent to you.. Kindly Confirm.

OK

## Confirmation Code Emailed

Admin Confirmation

varun@u2130105.nettech.net.in

Today at 11:54 AM

To Me

Dear user [varun\\_1992@yahoo.co.in](mailto:varun_1992@yahoo.co.in) Paste the code 526225ac2a357 in the page that you have been redirected to & fill your username to login as admin.

[Reply](#), [Reply All](#) or [Forward](#) | [More](#)



## Verification

# Varun Enterprises

## Login

UserName :  (created during Registration)

Verification Code :

## Invalid Login (if wrong code)

The page at u2130105.nettech.net.in says:  
Invalid Login

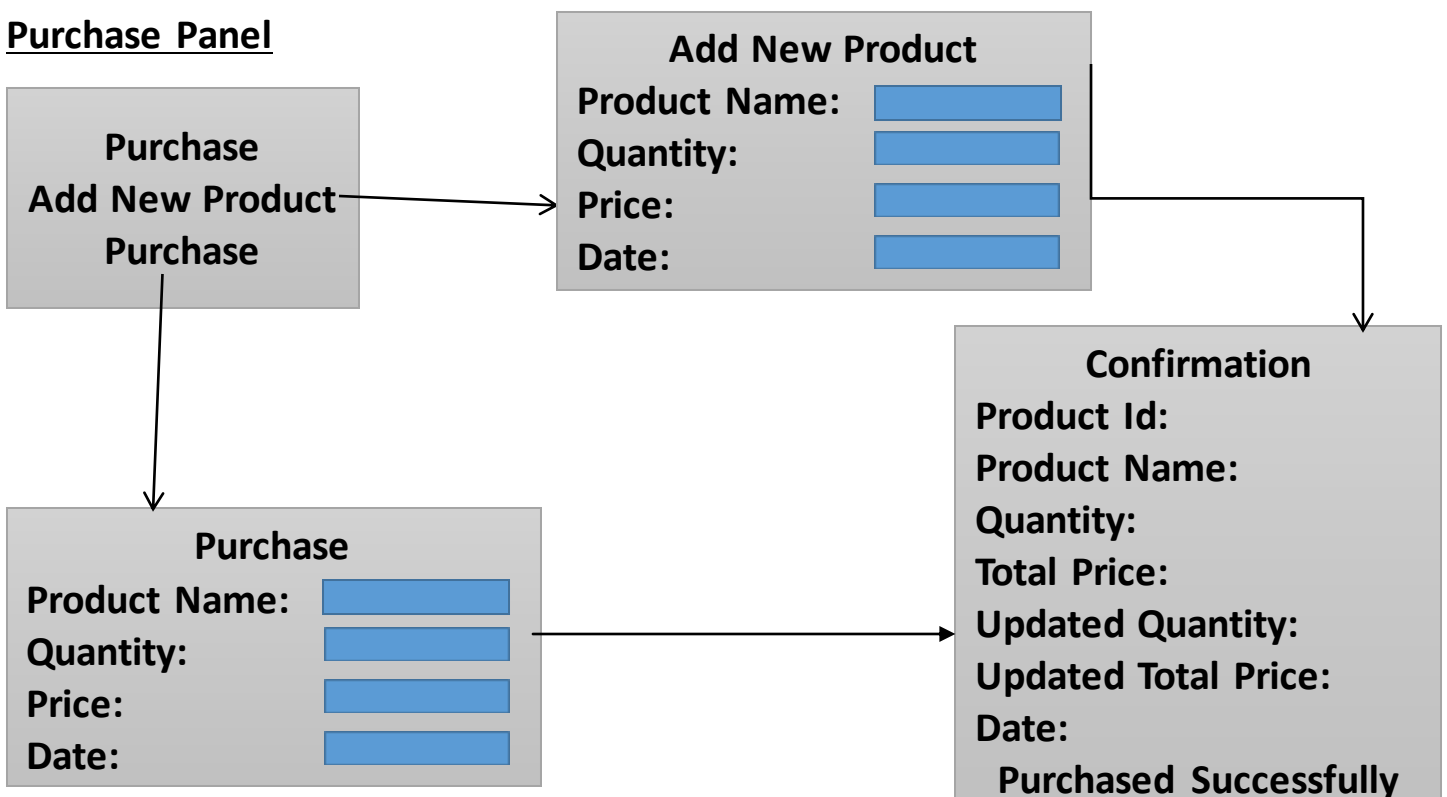
## Admins Panel (on successful Login)

# Varun Enterprises Admins Panel

Choose any option from the below panel

[Purchase](#) | [Sale](#) | [Stock](#) | [Accounts](#) | [Customers](#) | [Logout](#)

## Purchase Panel





## Screenshots

### Varun Enterprises Purchasers Panel

Choose any option from the below panel

[Home](#) | [Logout](#)

1: Add New Product



2: Product Purchase



### Varun Enterprises Purchasers Panel

Choose any option from the below panel

[Home](#) | [Logout](#)

[Add New Product](#)

Product Name :  (maximum 30 characters)

Quantity :  (in numeric)

Price :  (in numeric)

Purchase Date :



[Purchase Confirmation](#)

Product Id :	6eb20aa1
Product Name:	Watch
Quantity :	5
Total Price :	1000
Updated Quantity :	5
Updated Total Price :	1000
Date :	2013-07-16

**Successfully Done!**  
**Now Go To**

[Home](#) | [Add New Product](#) | [Product Purchase](#) | [Logout](#)

### Varun Enterprises Purchasers Panel

Choose any option from the below panel

[Home](#) | [Logout](#)

[Product Purchase](#)

Product Name :

Quantity :  (in numeric)

Price :

Purchase Date :

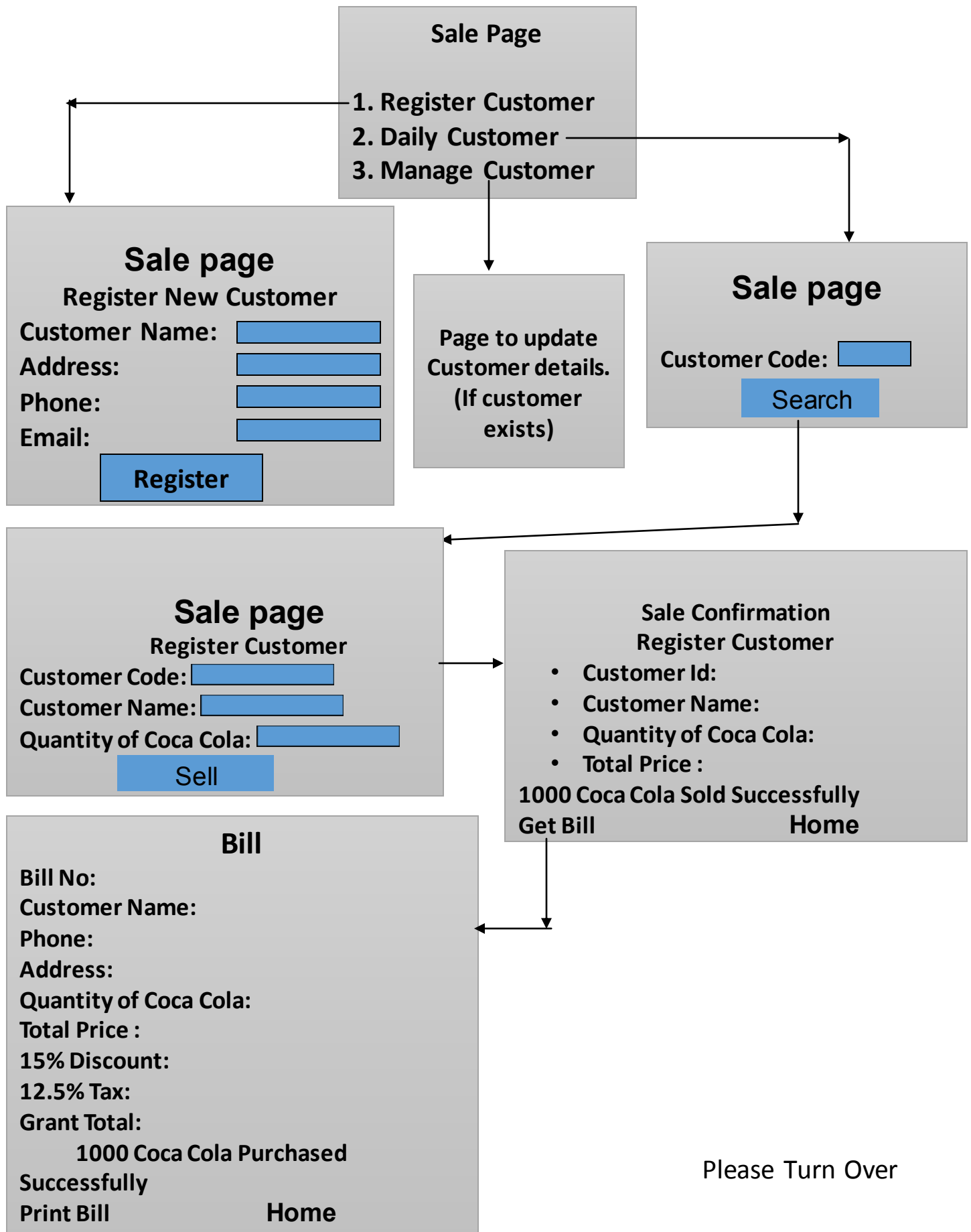
[Purchase Confirmation](#)

Product Id :	133c4834
Product Name:	Maggi
Quantity :	2
Total Price :	40
Updated Quantity :	7
Updated Total Price :	140
Date :	2013-04-14

**Successfully Done!**  
**Now Go To**

[Home](#) | [Add New Product](#) | [Product Purchase](#) | [Logout](#)

## Sales Panel



## Screenshots

### Varun Enterprises Sales Panel

Choose any option from the below panel

Home | Sale | Logout

1: Register Customer

REGISTER

2: Daily Customer

THE  
DAILY

2: Manage Customer

Manage

### Varun Enterprises Sales Panel

Choose any option from the below panel

Home | Sale | Logout

Search Existing Customer

Customer Id :

Search

### Varun Enterprises Sales Panel

Choose any option from the below panel

Home | Sale | Logout

Register New Customer

Customer Name : Harshit Agrawal (maximum 30 characters)

Address : Manicktalla

Phone : 1278792479 (in numeric)

Email : harshit@yahoo.com

Register

Register Customer

Customer Code: d6bb

Customer Name : Harshit Agrawal

Quantity of : Shaving Foam 2 (in numeric)

Sale Date : 11 Sep 2013

Sell

The page at u2130105.nettech.net.in says:

Selling Quantity is more than Stock!

OK

Validation for selling quantity

All Customer Records

Sl No.	Customer Name	Customer ID	Address	Phone	Email	Delete
1	Varun Agrawal	b02b	Natural heights Block 7 Flat 4c	8018713170	varun_1992@yahoo.co.in	<a href="#">Delete</a>
	<a href="#">Change</a>		<a href="#">Change</a>	<a href="#">Change</a>	<a href="#">Change</a>	
2	Neha Agrawal	eab7	Natural heights Block 7 Flat 4c	9831813197	n.agrawal94@gmail.com	<a href="#">Delete</a>
	<a href="#">Change</a>		<a href="#">Change</a>	<a href="#">Change</a>	<a href="#">Change</a>	
3	hxej	c366	djgbmbd	9831813197	varun_1992@yahoo.co.in	<a href="#">Delete</a>
	<a href="#">Change</a>		<a href="#">Change</a>	<a href="#">Change</a>	<a href="#">Change</a>	
4	rgfg	3065	dbb	3480347830	varun@varun.com	<a href="#">Delete</a>
	<a href="#">Change</a>		<a href="#">Change</a>	<a href="#">Change</a>	<a href="#">Change</a>	
5	Harshit Agrawal	d6bb	Manicktalla	1278792479	harshit@yahoo.com	<a href="#">Delete</a>
	<a href="#">Change</a>		<a href="#">Change</a>	<a href="#">Change</a>	<a href="#">Change</a>	

Home | Back | Logout

## Vdvmd;

**Sale Confirmation**

Customer Id :	d6bb
Customer Name:	Harshit Agrawal
Quantity of Shaving Foam :	2
Total Price :	214.5
Date :	2013-09-11

**2 Shaving Foam Sold Successfully!**  
**Now Go To**

[Home](#) | [Get Bill](#) | [Sale](#) | [Logout](#)

**Sale Confirmation**

Bill Id :	b569
Customer Name:	Harshit Agrawal
Phone :	1278792479
Address :	Manicktalla
Quantity of Shaving Foam :	2
Total Price :	220
Discount 15% :	33
Tax 12.5% :	27.5
Grant Total :	214.5
Date :	2013-09-11

**2 Shaving Foam Sold Successfully!**  
**Now Go To**


[Home](#) | [Print Bill](#) | [Sale](#) | [Logout](#)

**VectorJung**  
Free quality free vector

Print

Total: 1 page

[Save](#) [Cancel](#)

Destination  Save as PDF  
[Change...](#)

Pages ☒ All  
☐ e.g. 1-5, 8, 11-13


Layout ☒ Portrait  
☐ Landscape

Margins [Default](#)

Options ☒ Headers and footers  
☒ Background colors and images

Print using system dialog... (Ctrl+Shift+P)

6/30/2014 Get Bill

  
**VARUN ENTERPRISES**

**Sale Confirmation**

Bill Id :	b569
Customer Name:	Harshit Agrawal
Phone :	1278792479
Address :	Manicktalla
Quantity of Shaving Foam :	2
Total Price :	220
Discount 15% :	33
Tax 12.5% :	27.5
Grant Total :	214.5
Date :	2013-09-11

**2 Shaving Foam Sold Successfully!**  
**Now Go To**

[Home](#) | [Print Bill](#) | [Sale](#) | [Logout](#)

## Stock Panel

### Stock Page

S.no	Product Name	Product Id	Quantity
1.	Sugar	S1120	100Kg
2.	Salt	S1121	100Kg
3.	Lemon	S1122	100 Pc
4.	Water	S1123	100 Ltr
5.	Bottle	S1124	100 Pc
6.	Cap	S1125	100 Pc

## Screenshot

Stock Records			
<u>Sl.No.</u>	<u>Product Name</u>	<u>Product ID</u>	<u>Quantity</u>
1	Body Spray	0e8ab8dc	5
2	Maggi	133c4834	7
3	Ketchup	15423e41	10
4	Shampoo	17274c19	10
5	Shaving Foam	ad47da30	0
6	Watch	6eb20aa1	5
<a href="#">Home</a>   <a href="#">Logout</a>			

## Customers Panel

All Customer Records					
<u>Sl.No.</u>	<u>Customer Name</u>	<u>Customer ID</u>	<u>Address</u>	<u>Phone</u>	<u>Email</u>
1	Varun Agrawal	b02b	Natural heights Block 7 Flat 4c	8018713170	varun_1992@yahoo.co.in
2	Neha Agrawal	eab7	Natural heights Block 7 Flat 4c	9831813197	n.agrawal94@gmail.com
5	Harshit Agrawal	d6bb	Manicktalla	1278792479	harshit@yahoo.com
<a href="#">Home</a>   <a href="#">Logout</a>					



## Accounts Panel

### Accounts Page

Transaction  
View Records

### Transaction Page

Deposit Money  
Withdraw Money  
Current Account Status

### Current Account Status

### Withdraw Money

Current Balance:

Enter Amount:

Submit

### Confirmation!

Current Balance:

Rs. 10000

Withdraw to your  
Accounts

### Deposit Cash

Current Balance:

Enter Amount:

Submit

### Confirmation!

Current Balance:

Rs. 10000 Added in  
your Accounts

### Purchase Records

S.no	Name	Id	Qty	Price	Total	Date
1.	Sugar	S1120	100Kg	40/Kg	4000	20/05/13
2.	Salt	S1121	100Kg	10/Kg	1000	23/05/13
3.	Lemon	S1122	100 Pc	5/Pc	500	23/05/13
4.	Water	S1123	100 Ltr	30/Ltr	300	25/05/13
5.	Bottle	S1124	100 Pc	3/Pc	300	21/05/13
6.	Cap	S1125	100 Pc	2/Pc	200	23/05/13

### View Records

- Purchase Records
- Sale Records
- Account Records

### Sale Records

S.no	Name	Cid	Qty	Price	Total	Date of Sale	Income
1.	Vivek	S1120	100	14	1400	20/05/13	600
2.	Suraj	S1121	200	14	2800	20/05/13	1200
3.	Harshit	S1123	100	14	1400	21/05/13	600

### Account Records

Deposit Records  
Withdraw Records

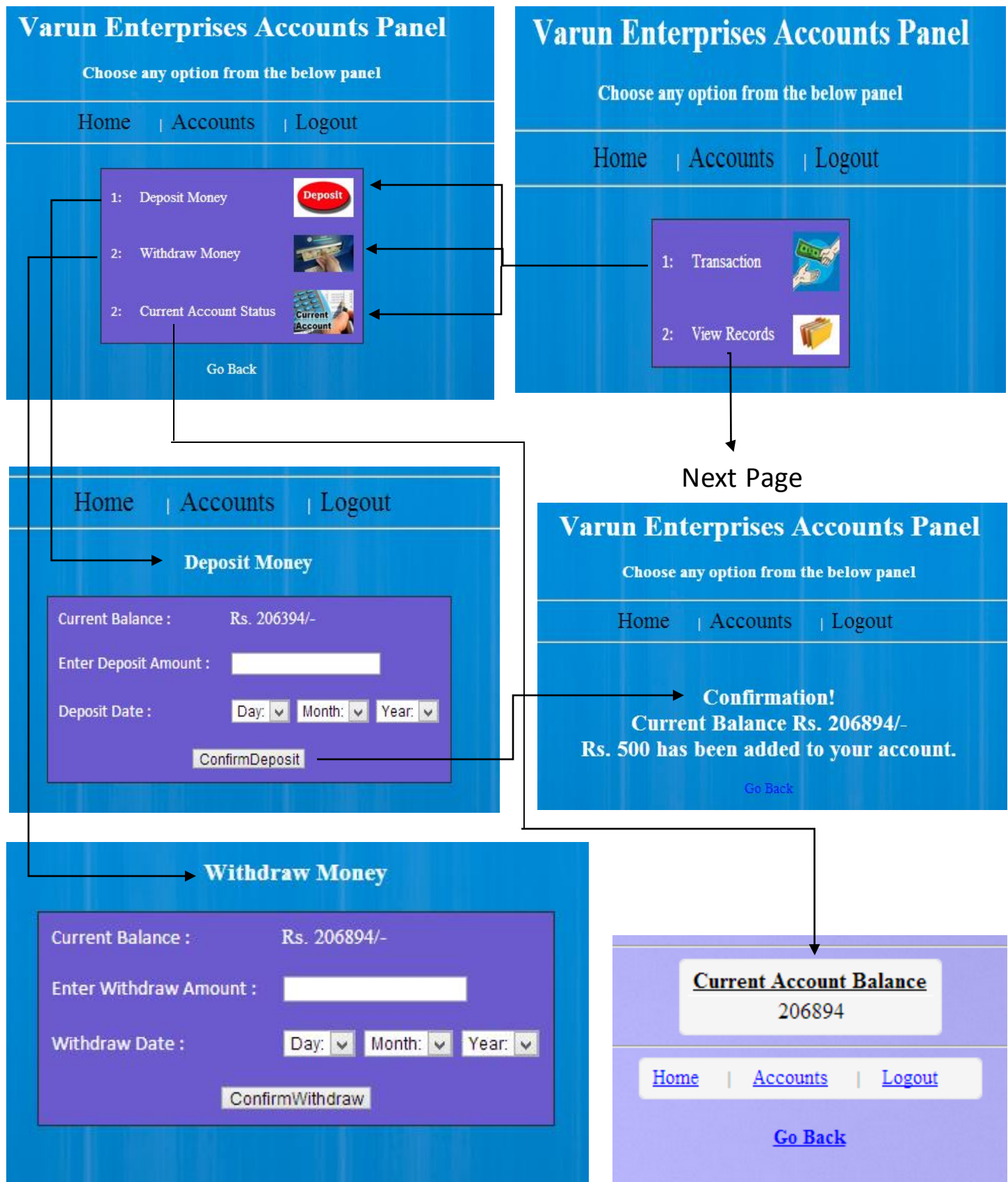
### Deposit Records

S.no	Date of Manage	Balance
1.	20/05/2013	1000000
2.	22/05/2013	6000
3.	24/05/2013	130000

### Withdraw Records

S.no	Date of Manage	Balance
1.	20/05/2013	1000000
2.	22/05/2013	6000
3.	24/05/2013	130000

## Screenshots







## Records Screenshot


### Varun Enterprises Accounts Panel

Choose any option from the below panel

[Home](#) | [Accounts](#) | [Logout](#)

1: Purchase Records 

2: Sales Records 


2: Account Records 


[Go Back](#)

### Varun Enterprises Accounts Panel

Choose any option from the below panel

[Home](#) | [Accounts](#) | [Logout](#)

1: Deposit Records 

2: Withdraw Records 

[Go Back](#)

### Purchase Records

Sl No.	Product Name	Product ID	Quantity	Price	Total Price	Date
1	Body Spray	0e8ab8dc	10	150	1500	2013-01-1
2	Maggi	133c4834	10	20	200	2013-01-2
3	Ketchup	15423e41	5	80	400	2013-01-3
4	Shampoo	17274c19	10	50	500	2013-01-4
5	Ketchup	15423e41	5	80	400	2013-01-5
6	Shaving Foam	ad47da30	50	100	5000	2013-02-15
7	Shaving Foam	ad47da30	10	100	1000	2013-03-26
8	Watch	6eb20aa1	5	200	1000	2013-07-16
9	Maggi	133c4834	2	20	40	2013-04-14

[Home](#) | [Accounts](#) | [Logout](#)

### Deposit Records

Sl No.	Date of Manage	Balance
1	2013-01-6	804
2	2013-01-7	107
3	2013-01-9	200
4	2013-10-14	200000
5	2013-10-18	6435
6	2013-07-12	1000
7	2013-09-8	500

[Home](#) | [Accounts](#) | [Logout](#)

[Go Back](#)

### Sale Records

Sl No.	Customer Name	Customer ID	Quantity	Price	Total Price	Date	Income
1	Varun Agrawal	b02b	5	165	825	2013-01-6	54
2	Neha Agrawal	eab7	5	22	110	2013-01-7	7
3	hxej	c366	60	110	6600	2013-10-18	435

[Home](#) | [Accounts](#) | [Logout](#)

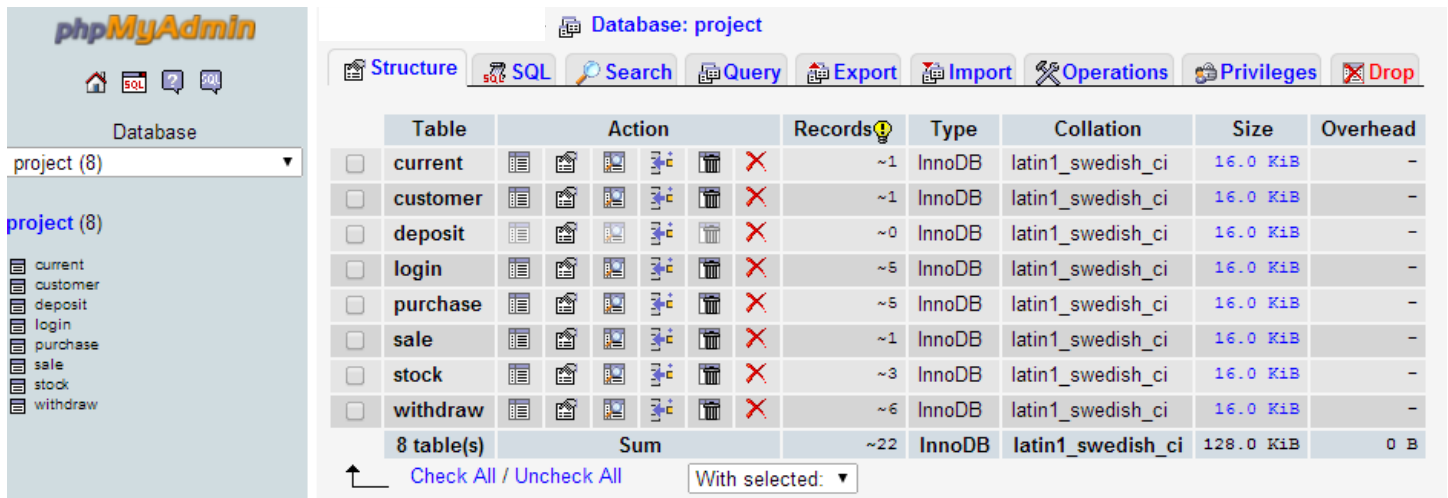
### Withdraw Records

Sl No.	Date of Manage	Balance
1	2013-01-1	1500
2	2013-01-2	200
3	2013-01-3	400
4	2013-01-4	500
5	2013-01-5	400
6	2013-01-10	200
7	2013-02-15	5000
8	2013-03-26	1000
9	2014-07-8	191912
10	2013-07-16	1000
11	2013-04-14	40

[Home](#) | [Accounts](#) | [Logout](#)

[Go Back](#)

## Database Screenshot



The screenshot shows the phpMyAdmin interface for a database named 'project'. The left sidebar lists the database and its tables: current, customer, deposit, login, purchase, sale, stock, and withdraw. The main panel displays the 'Structure' tab for the 'project' database, showing a table with 8 columns: Table, Action, Records, Type, Collation, Size, and Overhead. The table lists 8 tables: current, customer, deposit, login, purchase, sale, stock, and withdraw. Each table is an InnoDB type with a latin1\_swedish\_ci collation and a size of 16.0 KiB. The total size for all 8 tables is 128.0 KiB. At the bottom, there are links for 'Check All / Uncheck All' and a 'With selected:' dropdown menu.

Table	Action	Records	Type	Collation	Size	Overhead
<input type="checkbox"/> current		~1	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> customer		~1	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> deposit		~0	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> login		~5	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> purchase		~5	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> sale		~1	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> stock		~3	InnoDB	latin1_swedish_ci	16.0 KiB	-
<input type="checkbox"/> withdraw		~6	InnoDB	latin1_swedish_ci	16.0 KiB	-
8 table(s)	Sum	~22	InnoDB	latin1_swedish_ci	128.0 KiB	0 B

## Conclusion

Hence, I tried to make a simple yet effective Management Information System to manage the activities of Departmental Store. I achieved this project by applying the knowledge of database and PHP language correctly. I gained valuable experience while working on this project that too solely on my own and completed the task within the given deadline. I also intend to enhance this project by adding many features and capabilities others than the ones mentioned here.

# THANK YOU

## The End