

PROJECT BASED LAB REPORT

On

SUPER MARKET BILLING SYSTEM

**Submitted in partial fulfilment of the
Requirements for the award of the Degree of
Bachelor of Technology**

In

Computer Science & Engineering

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K L University

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

(DST-FIST Sponsored Department)



CERTIFICATE

This is to certify that this project based lab report entitled “**SUPERMARKET BILLING SYSTEM**” is a bonafide work done by A.Pavan Kumar(160030081), K.T.Reshmitha(160030548) , Y.Susmitha(160031502) in partial fulfillment of the requirement for the award of degree in **BACHELOR OF TECHNOLOGY** in **Computer Science and Engineering** during the academic year 2016.

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(DST-FIST Sponsored Department)



DECLARATION

We hereby declare that this project based lab report entitled “**SUPER MARKET BILLING SYSTEM**” has been prepared by us in partial fulfillment of the requirement for the award of degree “**BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING**” during the academic year 2016.

I also declare that this project based lab report is of our own effort and it has not been submitted to any other university for the award of any degree.

Date: 3-11-17

Place: Vaddeswaram

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My sincere thanks to in the Lab for their outstanding support throughout the project for the successful completion of the work

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CONTENTS

1. INTRODUCTION
2. SOFTWARE REQUIREMENTS SPECIFICATION
3. INPUT DESIGN
4. OUTPUT DESIGN
5. SOURCE CODE OF THE PROJECT
6. RESULT
7. CONCLUSION AND FUTURE SCOPE

INTRODUCTION

Supermarket is the place where customers come to purchase their daily using products and pay for that. So there is a need to calculate how many products are sold and to generate the bill for the customer.

The Project “Supermarket Billing System” deals with the automation of supermarket. This software will help salespersons in managing the various types of Records pertaining to his/her customer. The product will help the user to work in a highly effective and efficient environment.

The salespersons have been recording the customer information in the past and even in the present through their personal manual efforts. And indeed, it consumes their considerable time and energy that could be utilized in the better productive activities. Apart from that, with increasing customer Strength, the task of managing information of each individual customer is indeed a cumbersome task.

There is a lot of reason for the introduction of this project. In the manual System, there are number of inefficiencies that a salesperson faces. The information retrieval is one of the foremost problems. It is very difficult to gather the overall performance reports of the customer. Large records-books have to be maintained where relevant and irrelevant information has to be stored which is very untidy and clumsy process.

On the other hand, there are many inherent problems that exist in any manual system. Usually, they lack efficiency. Less efficiency has a great impact on the productivity of any human being keeping the data up-to-date.

The automation deals with all such problems and tries to remove them in the best suitable fashion. The new system will cater to the need of the salespersons of any supermarket so that they can manage the system efficiently.

The project “supermarket” is developed with the objective of making the system reliable, easier, fast, and more informative.

Software Requirements Specification:

- Check whether the Id of the product is valid or not.
- Menu should contain a list of products.
- Menu should contain products Id.
- Menu should contain the price of the products.
- Total amount of bill must be calculated.

Input Design:

For creating a menu, the system takes all inputs from keyboard and the writes into the menu.

A sample input dialogue for creating a Menu is shown below.

Please enter below options

1.menu

2.exit

1

S. No	Name	Price
1.	Colgate	50
2.	Soft drinks	85
3.	Palm oil	100
4.	Ball	50
5.	Surf excel	55
6.	Good day	20

Enter id

1

Enter quantity

2

Total bill will be displayed

Enter 1 to purchase item again

Output Design:

TOTAL BILL DETAILS

Id	Name	Quantity	Price	Discount	Total bill
1	colgate	2	50.0	2.5	9.5

SOURCE CODE OF THE PROJECT

```
import java.util.Scanner;

class bill

{

String name;

int id,n,op,quantity;

double price,discount;

Scanner sc=new Scanner(System.in);

void menu()

{

System.out.println("*****
*");

System.out.println("S.NO      NAME      PRICE");

System.out.println("*****
*");

System.out.println("1.      colgate      50");

System.out.println("2.      SoftDrinks    85");

System.out.println("3.      PalmOil      100");

System.out.println("4.      ball          50");

System.out.println("5.      Surfexcel     55");
```

```
System.out.println("6.      goodday      20");
```

```
}
```

```
void item()
```

```
{
```

```
try{
```

```
System.out.println("enter id");
```

```
id=sc.nextInt();
```

```
if(id>0 && id<7)
```

```
{
```

```
System.out.println("enter quantity");
```

```
quantity=sc.nextInt();
```

```
if(id==1)
```

```
{
```

```
name="colgate";
```

```
price=50;
```

```
discount=2.5;
```

```
}
```

```
else if(id==2)
```

```
{
```

```
name="softDrinks";
```

```
price=85;
```

```
discount=3;
```

```
}
```

```
else if(id==3)
```

```
{
```

```
name="palmoil";
```

```
price=100;
```

```
discount=3;
```

```
}
```

```
else if(id==4)
```

```
{
```

```
name="ball";
```

```
price=50;
```

```
discount=2;
```

```
}
```

```
else if(id==5)
```

```
{
```

```
name="surfexcel";
```

```
price=55;
```

```
discount=2;
```

```
}
```

```
}
```

```
}
```

```
catch(Exception e)
```

```
{
```

```
System.out.println(e);
```

```
}
```

```
}
```

```
double bil()
```

```
{
```

```
return price;
```

```
}
```

```
double it()
```

```
{
```

```
return(quantity*(price-discount));
```

```
}
```

```
double ite()
```

```
{
```

```
menu();

item();

double pr=it();

if(id>0 && id<7)

{

System.out.println("Id   name       quantity   price   discount   totalbill");

System.out.println( id+"   "+name+"       "+quantity+"       "+price+"

"+discount+"       "+pr);

return pr;

}

else

{

System.out.println("enter valid id to purchase");

return 0;

}

}

}
```

```
class billing

{

public static void main(String[] args)

{

double[] m=new double[100];

int op,i=0,j;

double t=0;

bill b=new bill();

Scanner sc =new Scanner(System.in);

System.out.println("please enter below options");

System.out.println("1.menu");

System.out.println("2.exit");

op=sc.nextInt();

while(op==1)

{

m[i++]=b.ite();

System.out.println("enter 1 to purchase item again");

op=sc.nextInt();

}

for(j=0;j<i;j++)
```

```
{  
  
t=t+m[j];  
  
}  
  
System.out.println("total bill="+t);  
  
  
}  
  
}
```

RESULT

All programs are compiled successfully. All programs are run and tested for correctness.

Results obtained are shown below

```
C:\> Command Prompt - java billing
Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.

C:\Users\new>cd Desktop

C:\Users\new\Desktop>cd bill

C:\Users\new\Desktop\bill>javac billing.java

C:\Users\new\Desktop\bill>java billing
please enter below options
1.menu
2.exit
```

```
C:\> Command Prompt - java billing
Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.

C:\Users\new>cd Desktop

C:\Users\new\Desktop>cd bill

C:\Users\new\Desktop\bill>javac billing.java

C:\Users\new\Desktop\bill>java billing
please enter below options
1.menu
2.exit
1
*****
S.NO          NAME          PRICE
*****
1.            colgate          50
2.            SoftDrinks       85
3.            PalmOil         100
4.            ball            50
5.            Surfexcel       55
6.            goodday         20
enter id
```


Command Prompt - java billing

Microsoft Windows [Version 10.0.10240]
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C:\Users\new>cd Desktop

C:\Users\new\Desktop>cd bill

C:\Users\new\Desktop\bill>javac billing.java

C:\Users\new\Desktop\bill>java billing

please enter below options

1.menu

2.exit

1

S.NO	NAME	PRICE
------	------	-------

1.	colgate	50
2.	SoftDrinks	85
3.	PalmOil	100
4.	ball	50
5.	Surfexcel	55
6.	goodday	20

enter id

2

enter quantity

3

Id	name	quantity	price	discount	totalbill
2	softDrinks	3	85.0	3.0	246.0

enter 1 to purchase item again

_

Command Prompt - java billing

Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.

C:\Users\new>cd Desktop

C:\Users\new\Desktop>cd bill

C:\Users\new\Desktop\bill>javac billing.java

C:\Users\new\Desktop\bill>java billing

please enter below options

1.menu

2.exit

1

S.NO	NAME	PRICE
------	------	-------

1.	colgate	50
2.	SoftDrinks	85
3.	PalmOil	100
4.	ball	50
5.	Surfexcel	55
6.	goodday	20

enter id

2

enter quantity

3

Id	name	quantity	price	discount	totalbill
2	softDrinks	3	85.0	3.0	246.0

enter 1 to purchase item again

1

S.NO	NAME	PRICE
------	------	-------

1.	colgate	50
2.	SoftDrinks	85
3.	PalmOil	100
4.	ball	50
5.	Surfexcel	55
6.	goodday	20

enter id

Command Prompt - java billing

C:\Users\new\Desktop>cd bill

C:\Users\new\Desktop\bill>javac billing.java

C:\Users\new\Desktop\bill>java billing

please enter below options

1.menu

2.exit

1

S.NO	NAME	PRICE
------	------	-------

1.	colgate	50
2.	SoftDrinks	85
3.	PalmOil	100
4.	ball	50
5.	Surfexcel	55
6.	goodday	20

enter id

2

enter quantity

3

Id	name	quantity	price	discount	totalbill
2	softDrinks	3	85.0	3.0	246.0

enter 1 to purchase item again

1

S.NO	NAME	PRICE
------	------	-------

1.	colgate	50
2.	SoftDrinks	85
3.	PalmOil	100
4.	ball	50
5.	Surfexcel	55
6.	goodday	20

enter id

2

enter quantity

1

Id	name	quantity	price	discount	totalbill
2	softDrinks	1	85.0	3.0	82.0

enter 1 to purchase item again

Command Prompt

```
C:\Users\new\Desktop\bill>java billing
please enter below options
1.menu
2.exit
1
*****
S.NO          NAME          PRICE
*****
1.            colgate        50
2.            SoftDrinks      85
3.            PalmOil        100
4.            ball           50
5.            Surfexcel      55
6.            goodday        20
enter id
2
enter quantity
3
Id  name          quantity  price  discount  totalbill
2   softDrinks    3        85.0   3.0       246.0
enter 1 to purchase item again
1
*****
S.NO          NAME          PRICE
*****
1.            colgate        50
2.            SoftDrinks      85
3.            PalmOil        100
4.            ball           50
5.            Surfexcel      55
6.            goodday        20
enter id
2
enter quantity
1
Id  name          quantity  price  discount  totalbill
2   softDrinks    1        85.0   3.0       82.0
enter 1 to purchase item again
2
total bill=328.0
```

CONCLUSION AND FUTURE SCOPE

Conclusion:

The project is successfully completed to the extent possible. The results of the project are shown earlier.

Future Scope:

Some more functions or modules may be added to project. After studying and understanding Graphic User Interface (GUI) of java, the inputs and outputs can be improved and implemented using GUI.