

A REPORT

ON

**“BILLING SYSTEM”**

**Submitted to**

**Computer Science and Engineering**

**Faculty of Engineering and Technology (Co-Education) In partial fulfillment of the semester project**

### Submitted by

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## Under the Guidance of

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**CERTIFICATE**

This is to certify that the project work entitled “**BILLING SYSTEM IN JAVA**” is bonafide work carried out by **ALOKKUMAR (SG20CSE019, DHANRAJ M (SG20CSE047), ABHISHEK THAKUR (SG20CSE005) AND AATMEEYA PATIL (SG20CSE058)** in partial fulfillment of **B.Tech 5th Semester in Computer Science and Engineering** of the Faculty of Engineering and Technology (Co-Education), **SHARNBASVA UNIVERSITY, Kalaburgi** during the year 2021-2022. It is certified that, she/he has completed the project satisfactorily.

# Marks Details

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
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# 

# ABSTRACT

In present days people are facing problem in shopping, this Supermarket Billing

System project in java is a simple console application built without use of graphics. This

project will help us to understand basically two things- use of stream class and file handling in

java language. This project is simple to understand, and the source code has been presented in

an understandable manner. To make software fast in processing with the good user interface

so that user can manage and change it, this should be used for long time without error and

maintenance.

This project is a traditional supermarket billing system with some added functionality.

This system is built for fast data processing and bill generation for supermarket customers. The

billing system consists of java and file handling concepts. The billing database is a vast

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 system also contains discounted price while billing. The supermarket billing system is built

to help supermarkets calculate and display bills and serve the customer in a faster and efficient

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CHAPTER-1

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. “Supermarket Billing System” aims at developing into software that

can be used at places like Shopping malls, Supermarkets to easily operates the daily tasks of

taking the order, calculating the bill etc.

The main advantage of this project is that it converts all the manual work is time

consuming and error prone to fully automated system which helps in eliminating all the paper

work, saves time, improves customer services. It also speeds up various processes such as

addition of new items to the menu, deletion of items from the menu, modification of details of

items and calculation of bills thus providing convenience to the workers as well as customers.

In the development of the project, selection of an appropriate programming language and a

platform is of primary importance.

This project is developed to manage the bill submission process in big organization.

Using this system user can submit their bill online and check the status of their bill. In this

system, we have two users. First one is the customer who can purchase the items available or

can make the bill for the customers. Second one is the administrator who will decide the

discounts on the products and can see the report of any report. In this project C++ language is

used to maintain all the data. It provides many features like file handling data can be easily

maintained and many features that are required while doing a project. The system will display

all the items with prices and discount. Finally, a separate bill will be generated for each

customer. This will be saves in the database. Any periodic records can be viewed at any time.

Eventually, users will consume less time in the calculation and the sales activity will be

completed within a fraction of seconds whereas a manual system will make the user write it

down which is a long procedure and so paperwork will be reduced and the user can spend more

time on the monitoring the supermarket.

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# CHAPTERR-2

# **OBJECTIVES**

The main objective of the project is to make software fat in processing and it should be used for a long time without error and maintenance. Provides a convenient solution of billing pattern and make an easy-to-use environment for users and customers.

* Automation – The application automates each and every activity of the manual system and increases its throughput. Thus, the response time of the system is very less and it works very fast.
* Accuracy – The application provides the user a quick response with very accurate information regarding the bill calculation and customer detail etc. any details or system in an accurate manner, as when required.
* User Friendly – The application Supermarket Billing System has a very user friendly interface. Thus, the users will fully very easy to work on it. The application provide accuracy along with a pleasant interface. Make the present manual system more interactive, speedy and user friendly.
* Availability – All the Billing details stored permanently in the database admin can see the data, whatever needed.
* Maintain Cost – Reduce the cost of maintenance. It is standalone application so no required of cost for maintain it.

3.2 SCOPE OF THE STUDY

Scope is more at certain area where billing is required and it also avoid the fake dealers.

Easy to maintain in future prospect. It provides quick way of operation by capturing the manual

process and automating them. This project is helpful to computerize the item transaction, sales

activity record keeping which is very huge task and maintaining the stock.

This project will help the admin to

•Calculate the bill.

•Give the bill to the customer.

•Store how many products are sold.

•Store products and their prices and with other information.

•See the rates of discounts on the products

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# CHAPTER :3

**LANGUAGE SPECIFICATIONS**

## INTRODUCTION TO JAVA :

## 

Java is a widely-used programming language for coding web applications. It has been a popular choice among developers for over two decades, with millions of Java applications in use today. Java is a multi-platform, object-oriented, and network-centric language that can be used as a platform in itself. It is a fast, secure, reliable programming language for coding everything from mobile apps and enterprise software to big data applications and server-side technologies.

**Features of JAVA:**

* Simple.
* Object-Oriented.
* Platform Independent.
* Portable.
* Robust.
* Secure.
* Interpreted.
* Multi-Threaded.

.

# CHAPTER :4

**SYSTEM SPECIFICATION**

## Software specifications:

Operating system: Microsoft windows 10 pro Language: JAVA

## Hardware specifications:

Processor : intel i5 10th generation.

Hard disk : 500GB RAM: 8GB

System type : 64 bit operating system

# CHAPTER :5

**IMPLEMENTATION**

import java.util.ArrayList;

import java.util.List;

import java.util.Scanner;

import java.text.SimpleDateFormat;

import java.util.Date;

import java.util.Calendar;

public class ProjectJava {

public static void main(String[] args) {

System.out.println(" --------------------Invoice----------------- ");

System.out.println(" Dmart Shop ");

System.out.println(" NEAR SHARNBASVA UNIVERSITY ");

System.out.println(" VIDYA NAGAR KALABURAGI ");

System.out.println("GSTIN: 03AWBPPxxxxxx" + "\t\t\t\t\t\t\tContact: (+91) 77954XXXXX");

SimpleDateFormat formatter = new SimpleDateFormat("dd/MM/yyyy HH:mm:ss");

Date date = new Date();

Calendar calendar = Calendar.getInstance();

String[] days = new String[] { "Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday" };

System.out.println("Date: " + formatter.format(date) + " " + days[calendar.get(Calendar.DAY\_OF\_WEEK) - 1]

+ "\t\t\t\t\t\t (+91) 99xxxxxxx");

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the number of products to be bought: ");

int count = scanner.nextInt();

List<String[]> products = new ArrayList<>();

int total = 0;

for (int i = 0; i < count; i++) {

System.out.println("Enter details of product " + (i + 1) + ": ");

Scanner sc = new Scanner(System.in);

System.out.print("Product name: ");

String productName = sc.nextLine();

System.out.print("Product ID: ");

String productId = sc.nextLine();

System.out.print("Quantity: ");

int quantity = scanner.nextInt();

System.out.print("Price: ");

int price = scanner.nextInt();

int totalPrice = quantity \* price;

total += totalPrice;

String[] product = {productId, productName, Integer.toString(quantity), Integer.toString(price), Integer.toString(totalPrice)};

products.add(product);

}

System.out.println("\n\n------------------------ Invoice ------------------------\n");

System.out.printf("%-15s %-25s %-15s %-15s %-15s\n", "Product ID", "Product Name", "Quantity", "Price", "Total Price");

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

for (String[] product : products) {

System.out.printf("%-15s %-25s %-15s %-15s %-15s\n", product[0], product[1], product[2], product[3], product[4]);

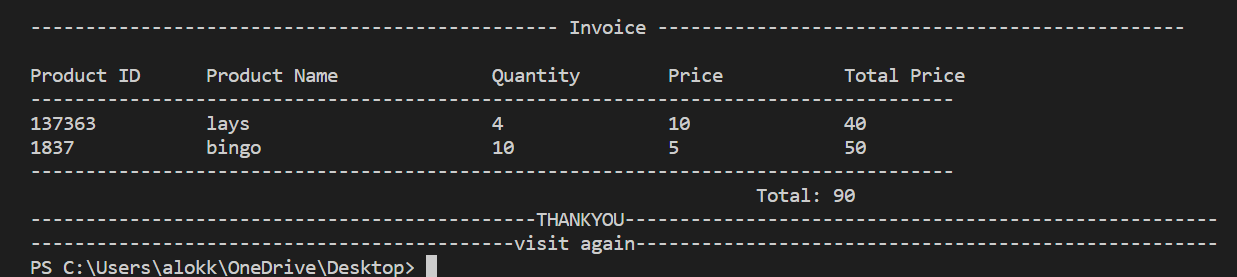
}

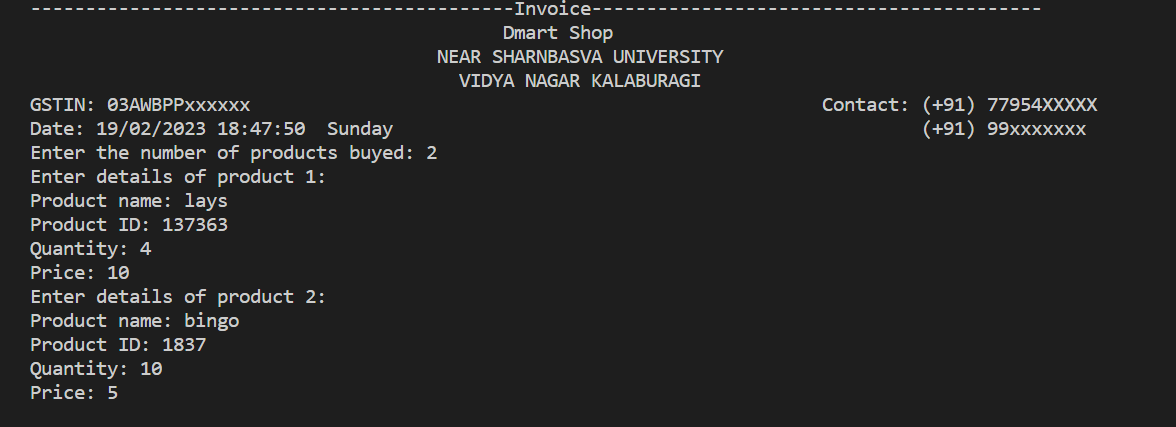
System.out.println("------------------------------------------------------------");

System.out.printf("%75s\n", "Total: " + total);}

CHAPTER-6

RESULT





CHAPTER-8

CONCLUSION

After we have completed the project, we are sure the problems in the existing system world overcome. The “Supermarket Billing System” process made computerized to reduce human errors & to increase the efficiency.

The main focus of this project is to fewer human efforts. The maintenance of the records is made efficient, as all the records are stored in the access database, through which data can be retrieved easily.

The navigation control is provided in all the forms to navigate through the large number of records. If the numbers of records are

very large than user has to just type in the search string & user gets the results immediately.

The editing is also made simple. The user has to just type in the required field & process the modify button to update desired field.

Our main aim of the project is to get the correct bills and

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# REFERENCES

* [**http://www.google.com/**](http://www.google.com/)
* [**http://www.w3schools.com\c\**](http://www.w3schools.com/c/)