

Computer Engineering Department

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UNIVERSITY OF MUMBAI

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Synopsis on
Billing and Inventory Management System

Submitted in partial fulfillment of the degree of
Bachelor of Engineering(Sem-4)

in
Computer Engineering

By

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1.1 Problem Definition

“In smaller businesses, books are utilized to keep track of records, and customers are given handwritten bills. High Tech POS is expensive and not feasible for them. There is a need for a product that is affordable and organizes the business.”

1.2 Objectives

1. This project will bridge the gap between the two existing systems.
2. This will simplify record-keeping and assist the organization in becoming more standardized.
3. Redundancy and inconsistency in data are reduced through a simpler Inventory system that works in sync with the billing system.
4. A digitized bill from a small firm will also provide a better experience for the customer.

1.3 Abstract

- The main purpose of this billing system is to fulfill the requirements and to provide a more affordable and user-friendly billing system to small or local businesses.
- The main goal of this system is to maintain all information about stocks and to create client bills in pdf format that may be printed and delivered to the customer and will have a pictorial representation of the sales made and inventory and the system will generate weekly or monthly reports based on the stock sold and purchased.

1.4 Scope

- **Easy to Use Billing System**
- **Inventory System Based on Database**
- **Generation of Stock Report and Sales Report**
 -

1.5 Existing System/project

Problems faced in Existing System:

- Registers require space
- There is no proper management of inventory
- Retrieving information is difficult
- Difficult to modify existing records
- Inconsistency of data is obvious
- There is no type of security.

2 Technology stack

The technology used in this project will be:

1. Language: Java is a programming language and a platform.
2. Frontend: Swing by Java and AWT by Java
3. Backend: Database: MySql by Oracle.

3.1 Benefits for Society

- Helps the local business to grow.
- Helps to promote more of local business.
- Creates a sense of belief and builds satisfaction among the customers.
- Transparency in transactions.

3.2 Applications

We can use this application:

- Dairy
- Canteen
- Grocery
- Local stores
- Stationary

3.3 Future Scope

There are certain things for future enhancements in this project such as:

- Mobile application can be developed which will be more helpful in terms of space and maintenance and billing purposes.
- Detailed graphs for sales reports can be shown so it will be easy for users to understand their sales on a monthly or weekly basis

4.1 Block Diagram

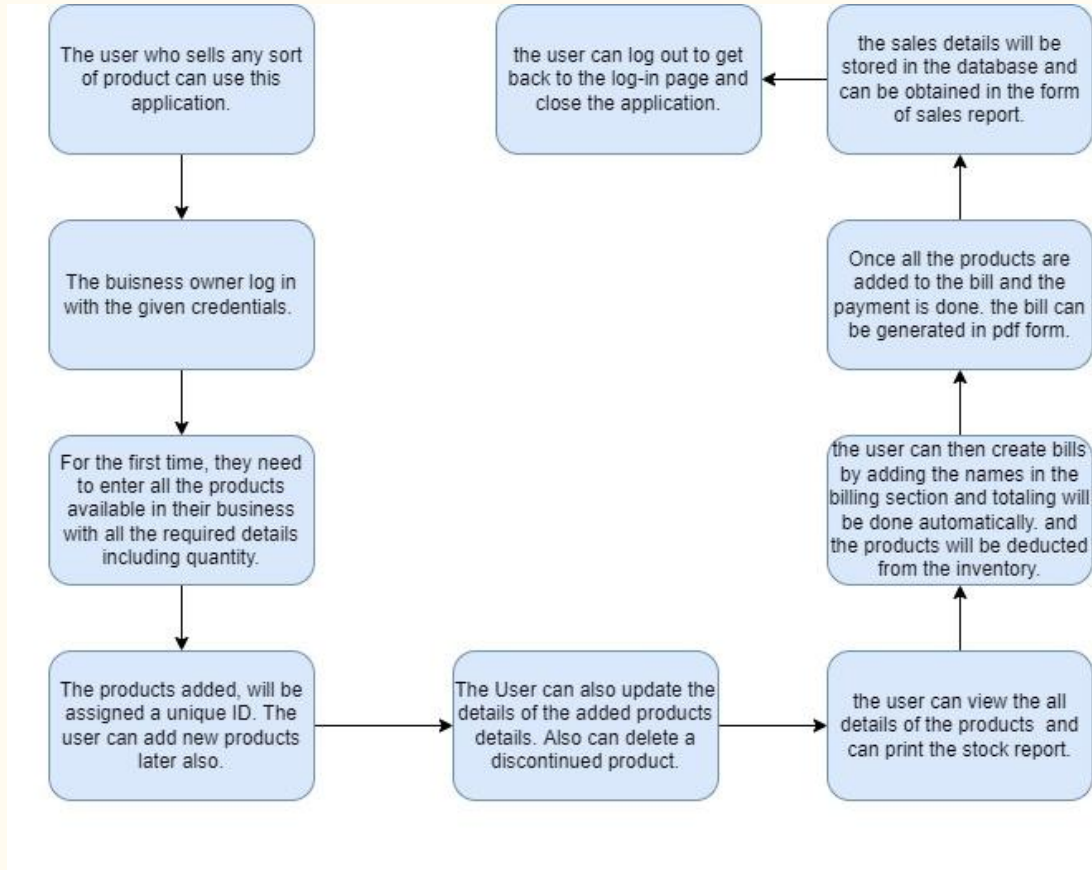


Fig 4.1: Block Diagram

4.2.1 Level 0 Data Flow Diagram

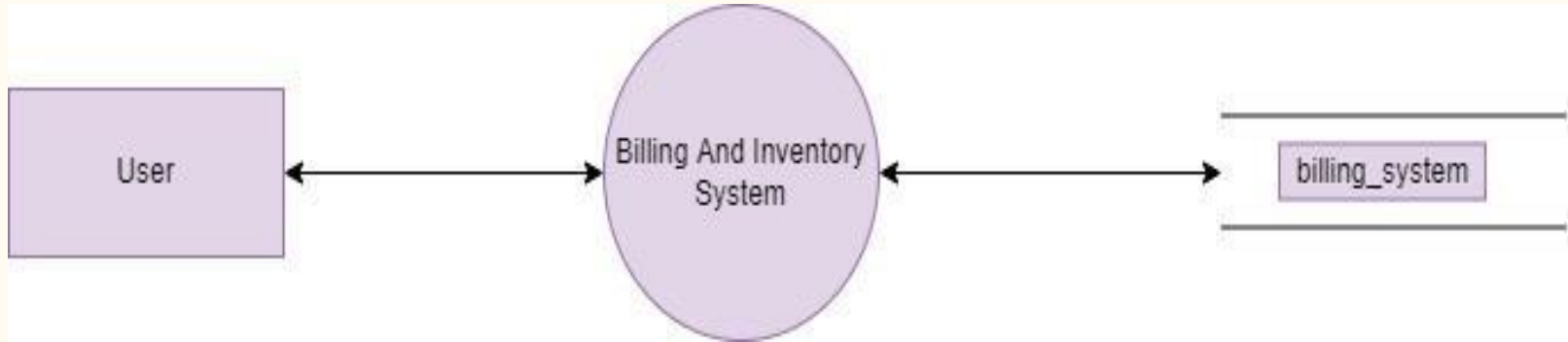


Fig 4.2:Level 0 Data Flow Diagram

4.2.2 Level 1 Data Flow Diagram

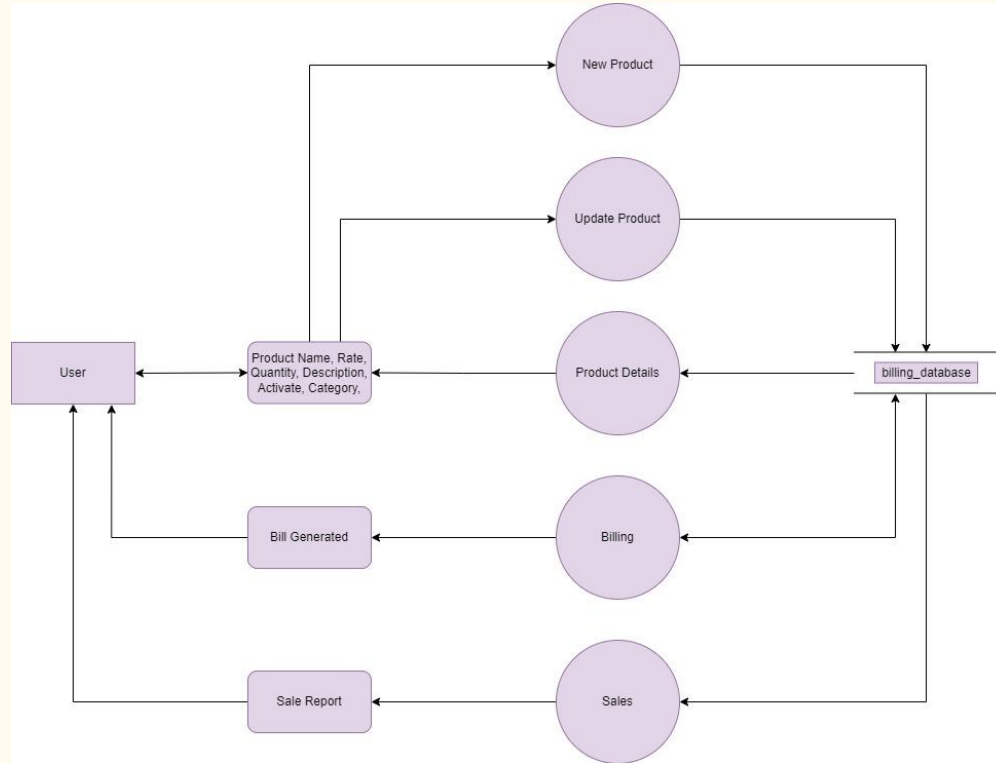
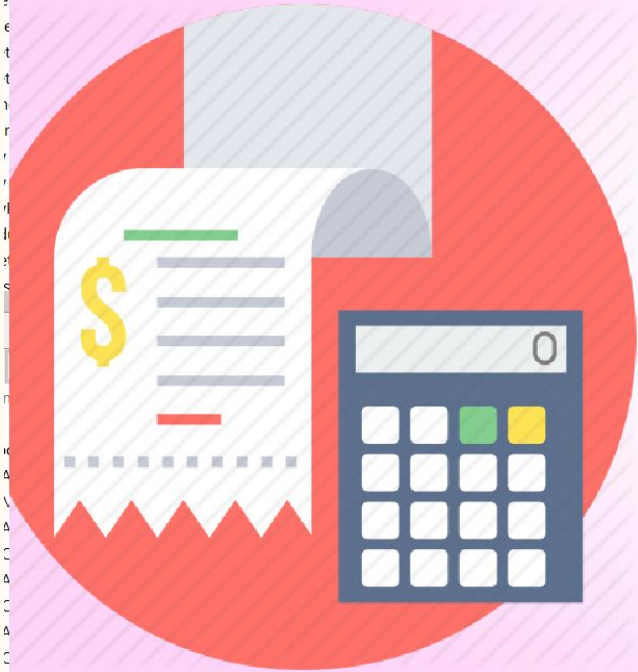


Fig 4.3:Level 1 Data Flow Diagram

4.3 Project Snapshots

Billing Management System



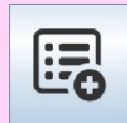
Login

Username

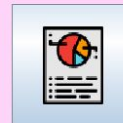
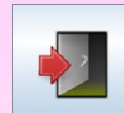
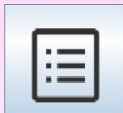
Password

☐ Show Password

The login form is on a yellow background. It features a large blue padlock icon in the center, surrounded by a circular gear-like border. In the top left corner of the form, there is a small icon of a document with a dollar sign. In the bottom left corner, there is a small icon of a computer monitor. The form includes input fields for 'Username' and 'Password', a 'Show Password' checkbox, and 'Login' and 'Close' buttons.



New Product



Sales Report



Close Application



New Product

Product ID **7**

Product Name

Rate

Description

Activate

Category

Quantity



Save

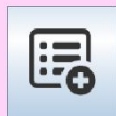


Reset

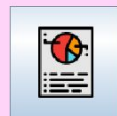
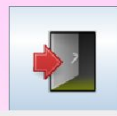
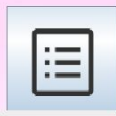


Close





New Product



Sales Report



Close Application



Update Product

Product ID

3



Product Name

Potato

Rate

30.0

Description

vegetable

Activate

1

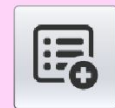
Category

GST 0%

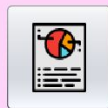
Quantity

9.0





New Product



Sales Report



Close Application



Product Details

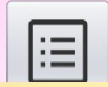
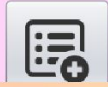
Product_id	P_Name	Rate	Description	Activate	Category	Quantity
1	Mango	10.0	ripen	1	Item 2	170.0
2	Apples	60.0	fresh	1	GST 5%	35.0
3	Potato	30.0	vegetable	1	Item 3	9.0
4	Grapes	20.0	green	0	GST 0%	0.0
5	berries	100.0	ripe	1	GST 5%	480.0
6	lemons	5.0	citrous	1	GST 18%	490.0



Print



close



Billing

Date

2022-4-8

Time

3:56:53

ication

Buyer's Details

Buyer Name

Vandan

Address

mumbai

Phone No

1234567890

Product Details:

Product Name

Quantity



Calculation Details:

Total Amount

614.0



Paid Amount

620



Return Amount

6.00

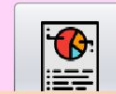
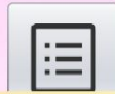
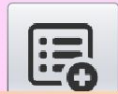


Total Quantity

15.0

Product ID	Product Name	Category	Quantity	Rate	Total
1	mango	Item 2	5.0	10.0	50.0
2	apples	GST 5%	8.0	60.0	504.0
3	potato	Item 3	2.0	30.0	60.0





Billing

Date 2022-4-8
Time 3:57:44

ication

Buyer's Details

Buyer Name Vandan

Product Details:

Product Name

Calculation Details:

Total Amount 614.0

Paid Amount 620

Return Amount 6.00

Total Quantity 15.0

Name: Vandan
Phone Number: 1234567890
Address: mumbai

Products	Quantity	Rate	Total
mango	5.0	10.0	50.0
apples	8.0	60.0	504.0
potato	2.0	30.0	60.0

Total Quantity: 15.0



Print



Cancel

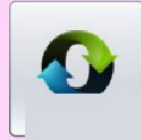


Delete

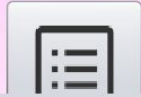
Quantity	Rate	Total
5.0	10.0	50.0
8.0	60.0	504.0
2.0	30.0	60.0



New Product



U



Logout



Close Application



SALES REPORT

April



pid	pname	Total_Quantity	Total_Price
1	mango	104.0	1319.5
6	lemons	7.0	41.3
2	apples	36.0	2388.75
5	berries	9.0	945.0
3	potato	2.0	60.0
8	Tomato	40.0	1260.0

Total: 198.0 6014.55



Print



close



Thank You

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