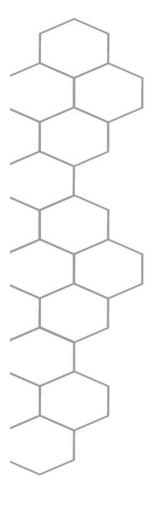


College of Science BICOL UNIVERSITY Legazpi City





B&B STORE

Group Members:

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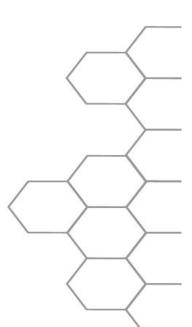


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III. About the client

a. Name of Business/Organization:

B&B STORE

b. Nature of Business:

It is a business that buys products at wholesale and sells them at retail price. The overall objective of the store is to sell products at a price point higher than what they cost them.

c. Address:

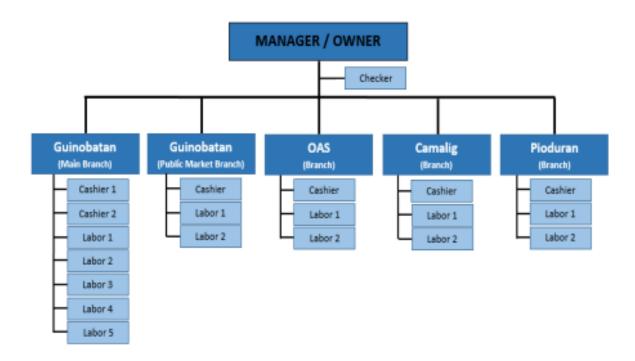
Guinobatan, Albay

d. Contact Person and Designation:

Aileen O. Cid 0927 213 9291 Cashier

IV. Corporate Planning Objects

a. Organizational Units



b. Organizational Locations

The main store and branches are all located in the province of Albay. The main store is located in Guinobatan, where all the stocks and supplies are stored. There is also one branch situated inside the market of Guinobatan. The three existing branches of the store are located in Oas, Camalig, and Pioduran. Overall, the store has four branches.

c. Business Functions

The store is operating for 10 hours a day, from 7 in the morning to 5 in the evening. In every transaction, it is automatically recorded on the computer. The accepted payment method of the store is cash only, so all the profit is put into the cash drawer. The amount earned in the morning is calculated prior to the start of the employee's shift. The profit in the evening is computed and added to the morning income, then totaling all the amount earned in a day. The sales and revenue of the store are recorded every day in a journal. If there's a new delivery, the staff of the store is responsible for inputting the new product / added supply to the 'daily entry' in the computer. Before the closing hour, one person (an employee) is assigned to list all the products that have been decreased from the purchases of the customers.

d. Entity Types

Inventory Data:

Product	Description
Feeds	Inventory is done per bag (Name, Price, Quantity)
Medicines	Inventory is done per pieces or box (Name, Price, Quantity, Dose)
Insecticide	Inventory is done per piece (Name, Price, Quantity)
Herbicides	Inventory is done per piece (Name, Price, Quantity)

When retailed of feeds and cat food & dog food they did the Inventory per kilogram (Per bag means per sacks).

Customer Data:

Each branch has its own computer and database, the customer information is stored in the store's/branch database, And the information is not accessible for other branches.

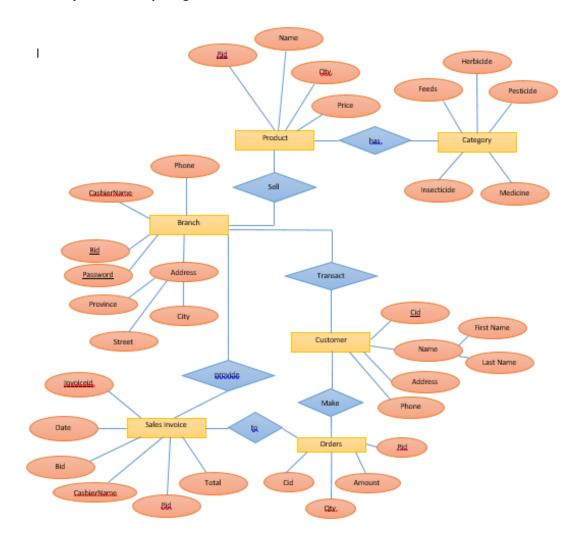
e. Information Systems

The store has integrated various types of equipment, including computers, receipt printers, and scanners, to enhance the efficiency and accuracy of processing transactions. These equipment help in simplifying and streamlining the sales process, allowing for faster and more accurate handling of customer purchases. Additionally, the store provides a receipt to every customer to serve as proof of purchase and ensure transparency in transactions. This receipt contains essential details such as the name of the store, the items purchased, the quantity, and the total amount paid. For some customers who require an official record of their purchase, the store offers an official receipt (OR) that serves as legal proof of the transaction. The OR contains more detailed information such as the name of the buyer, the tax identification number of the store, and other necessary details mandated by law. Overall, the store's use of modern equipment and provision of receipts, including the OR, demonstrates its commitment to providing high-quality customer service and ensuring transparency and accuracy in its transactions.

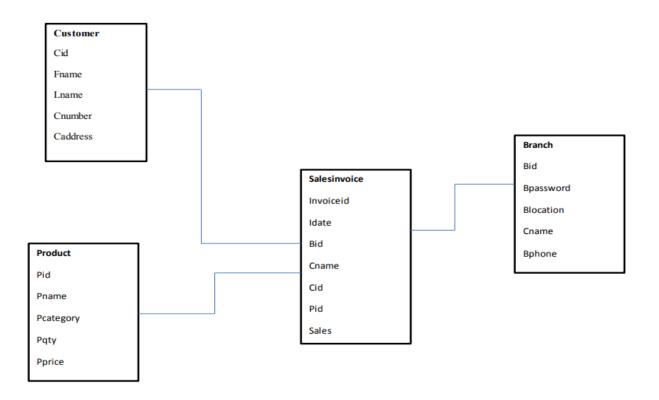
V. Solution

We, the group members, came up with a better and best solution to the problems that the store encountered. We called it "cloud computing," in which the checker can manage and update the prices of the store products through the use of internet access or online. This will help the checker not to go physically anymore to other branches of the store just to manage and update the prices of store products. This will also help the store to grow and earn more money.

VI. Entity-Relationship Diagram



VII. Relational Data Model



VIII. Data Dictionary

Table 1 BRANCH						
Name	Туре	Null Value	Description			
Bid	int(11)	No	Branch ID			
Bpassword	varchar(25)	No	Branch Password			
Blocation	varchar(25)	No	Location of branch			
Cname	varchar(25)	No	Cashier Name (Full name)			
Bphone	varchar(11)	No	Contact of the Branch or person			

Table 2 CUSTOMER						
Name	Туре	Null Value	Description			
Cid	int(11)	No	Customer ID (Auto- generated)			
Fname	varchar(25)	No	First Name of Customer			
Lname	varchar(25)	No	Last Name of Customer			
Cnumber	varchar(25)	No	Phone number of Customer			
Caddress	varchar(50)	Yes	Address of Customer			

Table 3 PRODUCT						
Name	Туре	Null Value	Description			
Pid	int(11)	No	ID of the product			
Pname	varchar(25)	No	Name of Product			
Pcategory	varchar(25)	No	Category of product (ex: Feeds, Medicine)			
Pqty	int(11)	No	Quantity of the product			
Pprice	int(11)	No	Price of product			

Table 4 SALESINVOICE							
Name	Туре	Null Value	Description				
Invoiceid	int(11)	No	Sales ID or reference (auto generated)				
ldate	varchar(25)	No	Date of Purchase				
Bid	int(11)	No	Branch ID				
Cname	varchar(25)	No	Cashier Name				
Cid	int(11)	No	Cashier ID				
Pid	int(11)	No	Product ID customer buy				
Sales	double	No	Total Purchase				

IX. SQL Codes for Table Creation and Initial Data Entries

SQL codes for table creation of branch

CREATE TABLE branch (

Bid INT PRIMARY KEY,

Bpassword VARCHAR(20),

Blocation VARCHAR(50),

Cname VARCHAR(20),

Bphone VARCHAR(20));

```
if (BIdTb.getText().isEmpty() || BPassTb.getText().isEmpty() || BLocTb.getText().isEmpty() || BphoneTb.getText().isEmpty() |

JOptionPane.showMessageDislog(prentOmposed:this, message:"Missing Information");

}else(

try{

Con = DriverManager.getConnection(url:"jdbc:mysql://localhost:3306/bbb_database", mess:"root", pusseerd:"");

PreparedStatement Save = Con.prepareStatement(string:"HNSERT INTO
Save.setInt(u:l, H:Integer.ralueOf(usDIdTb.getText()));

Save.setString(u:l, string:BPassTb.getText());

Save.setString(u:l, string:BLocTb.getText());

Save.setString(u:l, string:BLocTb.getText());

Save.setString(u:l, string:BphoneTb.getText());

int row; Save.executeUpdate();
```

SQL codes for table creation of customer

CREATE TABLE customer (

Cid INT AUTO_INCREMENT PRIMARY KEY,

Fname VARCHAR(20)NOT NULL,

Lname VARCHAR(20)NOT NULL,

Caddress VARCHAR(50),

Cnumber VARCHAR(20))NOT NULL;

SQL codes for table creation of product

```
CREATE TABLE product (

Pid INT PRIMARY KEY,

Pname VARCHAR(20),

Pcategory VARCHAR(20),

Pqty VARCHAR(20),

Pprice VARCHAR(20));
```

SQL codes for table creation of salesinvoice

```
CREATE TABLE salesinvoice (

Invoiceid INT AUTO_INCREMENT PRIMARY KEY,

Idate VARCHAR(20)NOT NULL,
```

Bid INT NOT NULL,

Cname VARCHAR(20)NOT NULL,

Cid INT NOT NULL,

Pid INT NOT NULL,

Sales Double NOT NULL);

```
int salesId = getSalesId();
private void insertsales(){
   try {
       getID();
        DisplayBranch();
        Con = DriverManager.getConnection(ur): "jdbc:mysql://localhost:3306/b&b_database", user: "root", pussword: "");
        PreparedStatement Save = Con.prepareStatement(strings"INSERT INTO salesinvoice (Invoiceid, Idate, Bid, Cname, Cid, Pid, Sales) VALUES (?, ?, ?, ?, ?, ?, ?, ?)");
        Save.setInt(i:1, ii:salesId);
Save.setString(i:2, string:Date_time.getText());
        Save.setInt(i:3, it:Integer.parseInt(s:IDB.getText()));
 Save.setString(i:4, string:cashier);
Save.setInt(i:5, ii:CustomerId);
        Save.setInt(::6, ::Integer.parseInt(::PidTb.getText()));
       Save.setDouble(i:7, d:grdtotal);
        int row = Save.executeUpdate();
    if (row > 0) {
       JOptionPane.showMessageDialog(parentComponent:this, message:"Sales Added");
       JOptionPane.showMessageDialog(perentComponent: this, message: "Failed to add sales");
    Con.close();
```

ALTER TABLE salesinvoice

ADD FOREIGN KEY (Bid) REFERENCES branch(Bid),

ADD FOREIGN KEY (Cid) REFERENCES customer(Cid),

ADD FOREIGN KEY (Pid) REFERENCES product(Pid);

X. Scanned copies of sample Forms and Reports

A. Input Example





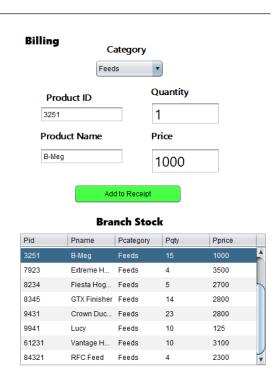


Branch Stock

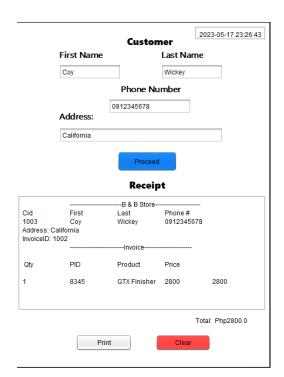
Pid	Pname	Pcategory	Pqty	Pprice	
1238	Vantage H	Feeds	10	3000	1
3121	Piggy 1st (Feeds	23	500	

B. Output Example

Summary Report



Receipt



Dashboard



Branch 1

Invoiceid	Idate	Bid	Cname	Cid	Pid	Sales
1000	2023-0	915	Erick Av	1000	1238	3000.0
1002	2023-0	915	Erick Av	1004	12312	1050.0
1003	2023-0	915	Erick Av	1005	6123	2764.0
1004	2023-0	915	Erick Av	1006	12312	250.0



Branch 2

Invoiceid	Idate	Bid	Cname	Cid	Pid	Sales
1001	2023-0	123142	Mary Ja	1003	3251	7000.0
1005	2023-0	123142	Mary Ja	1007	9324	1538.0
1006	2023-0	123142	Mary Ja	1007	1238	3000.0
1007	2023-0	123142	Mary Ja	1008	9941	1125.0
1008	2023-0	123142	Mary Ja	1008	3212	150.0



XI. References

https://www.pdffiller.com/preview/16/74/16074692/large.png