**Title of the Project: Shop Management System**

**Group Number: 10**

**Group Members: 03**

| **Student ID** | **Student Name** |
| --- | --- |
| 18301285 | M S Kamran |
| 18301011 | Kazi Shariful Islam |
| 18101630 | Shaikat Majumder |
|  |  |
|  |  |

# Requirement Analysis :

# Functional Requirement: A functional requirement relates directly to a process The system has to perform or the information it needs to contain.

# Non-Functional Requirement: Non-functional requirements refer to behavioral properties that the system must have, as performance and usability.

# 

# Functional Requirement :

1. Product sales management :

1.1 This system will show the product list to the salesman with its price.

1.2 This system will calculate the price of the product in the cart for the salesman.

1.3 This will automatically generate a payslip for the customers.

1.4 This system will allow the salesman to view how much product is in stock.

1.5 This system will track products’ expired dates.

1.6 This system can scan the barcode of a product.

1. Shop Expanse management :

2.1 This system will calculate how much money the owner is spending to buy new products.

2.2 The system will calculate how much money the owner has to pay per month for the bills.

1. Customers Information management :

3.1 This system will record customers’ phone numbers and names.

3.2 This system will track the customer is new or a regular customer.

3.3 This system will calculate the discount for the regular customers who will purchase over a limit.

3.4 The system will track down how the customers are willing to pay like mobile payment, card payment, or cash payment.

1. Shop Sales Analysis :

4.1 This system will calculate the daily, weekly, monthly, and yearly sales amount.

4.2 This system is well informed if a product is going out of the limit.

4.3 This system will calculate how much revenue and loss is generated from the shop in daily, weekly, monthly, and yearly sales.

4.4 The system will analyze the most sales products and the fewer sales products.

1. Wholesale buyers information :

5.1 This system will record from which buyer we buy products and their information.

# Non-Functional Requirement:

# Operational :

1.1 This system should run on PCs or Laptops which are used by the salesman.

1.2 The system should have connected to a barcode scanner machine.

1.3 The system to connect to a printer wirelessly.

# Performance :

2.1 This System should support a sales staff with 15 salesmen.

2.2 The system will update after every sale and purchase.

# Security :

3.1 No salesman can access any other salesman’s customer information.

3.2 Only the owner and the manager can access the customer information.

3.3 Use of each PC or laptop Should be restricted to the salesman who is assigned.

# Cultural and Political :

4.1 Customer personal information Is protected in compliance with the Data Protection Act.

4.2 The shop can not sell any expired products.

4.3 Shops will not sell those products which are banned by the government.