

# INVENTORY MANAGEMENT TOOL

C02203



# Group Member Details



20/ENG/016-BUWANEKA R.I.

20/ENG/061-JAYASINGHE M.A.R.D.

20/ENG/063-JAYATHILAKA H.A.N.D.

20/ENG/015-BATUWATTA A.S.

# Introduction

Why do businesses need an Inventory Management System?



# Motivation

When considering business failures, inventory mismanagement is one of the top reasons among them. Inefficient inventory management can affect the company's profitability in several ways.

- Too much stock
- Too little stock
- Too old stock

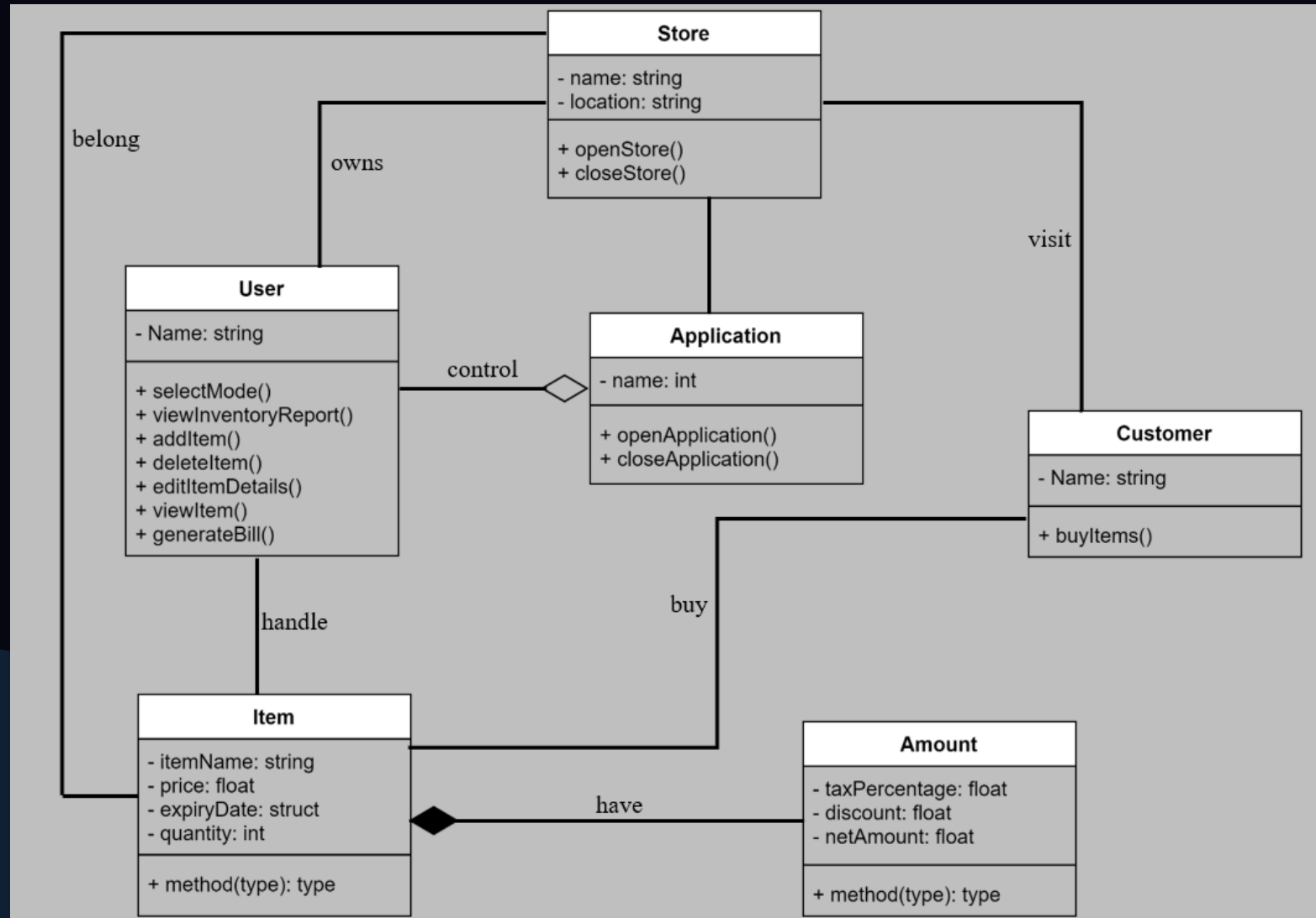


# Objectives

- Keep track of the items available in the store.
- Enter the items along with the following attributes;
  - ✓ Item No
  - ✓ Item Name
  - ✓ Quantity
  - ✓ Expiry Date
  - ✓ Retail Price
  - ✓ Tax Percentage
  - ✓ Discount Percentage
- View the above details of an already existing item available at the store.
- Delete an item by entering its item number.
- View the list of all the available items at the store along with their total value.
- Generate a bill when a customer purchase items.



# Class Diagrams





# Application

## Main menu

REG\_MOD:ON

Super Market Inventory Manage System  
=====

- 1.Select Mode
- 2.Inventory Report
- 3.Add/Remove/Edit Item
- 4.Show Item Details In Inventory
- 5.Generate Bill
- 6.Exit

Please Enter Required Option: 1

# Application

## 01). Select Mode option

Choose Mode

=====

1.Education Mode

2.Regular Mode

3.Back to Main Menu |

## 02). Inventory Report option

REG\_MOD:ON

Inventory Details

=====

1.All Items

2.Back to Main menu

Please Enter Required Option:



# Application

## 02.1). All Items option

REG\_MOD:ON

### INVENTORY DETAILS

ITEM NO	NAME	PRICE	QUANTITY	TAX %	DISCOUNT %	NET AMOUNT
2	Face_Wash	350.00	2.00	15.00	5.00	764.75
3	Hair_Gel	270.00	1.00	15.00	0.00	310.50

Grand Total=1075.25

# Application

## 03). Add/Remove/Edit Item option

REG\_MOD:ON

Inventory Editor  
=====

- 1.Add Item Details
- 2.Edit Item Details
- 3.Delete Item Details
- 4.Back to Main Menu |

## 03.1). Add Item Details option

Item No: 1

Name of the item: Perfume

Expired Date(dd-mm-yy): 31-12-2024

Price: 480

Quantity: 1

Tax percent: 20

Discount percent: 0|

# Application

## 03.2). Edit Item Details option

```
Current Details are  
Item No: 1
```

```
Name of the item: Perfume
```

```
Date : 31--12--2024
```

```
Net amount: 576.00
```

```
Enter New Details
```

```
Item No: 1
```

```
Name of the item: Mens_Perfume
```

```
Expired Date(dd-mm-yy): 29-11-2024
```

```
Price: 500
```

```
Quantity: 1
```

```
Tax percent: 20
```

```
Discount percent: 10
```

```
Item Added Successfully!  
Item Details edited|
```

## 03.3). Delete Item Details option

```
Enter Item Number to be deleted :1|
```

# Application

## 04). Show Item Details In Inventory

REG\_MOD:ON

Enter Item Number :1

Item No: 1

Name of the item: Perfume

Date : 31--12--2024

Net amount: 576.00

\*\*\*\*\*

### DETAILS

\*\*\*\*\*

PRICE :480.00

QUANTITY :1.00

TAX PERCENTAGE :20.00

DISCOUNT PERCENTAGE :0.00

NET AMOUNT :Rs.576.00

\*\*\*\*\*



# Application

## 05). Generate Bill option

1.Add Item From Inventory

2.Generate Bill

3.Clear Bill

4.Back

Please Enter Required Option: |

## 05.1). Add Item From Inventory option

REG\_MOD:ON

Bill  
=====

ITEM NO	NAME	QUANTITY	PRICE
2	Face_Wash	2.00	764.75
3	Hair_Gel	1.00	310.50

1.Add Item From Inventory

2.Generate Bill

3.Clear Bill

4.Back

Please Enter Required Option: 1

Enter Item NO:|



# Application

## 05.2). Generate Bill option

REG\_MOD:ON

Bill  
=====

ITEM NO	NAME	QUANTITY	PRICE
2	Face_Wash	2.00	764.75
3	Hair_Gel	1.00	310.50

-----  
1075.25  
-----

1.Add Item From Inventory

2.Generate Bill

3.Clear Bill

4.Back

Please Enter Required Option: 2

Wait A Second...Generating Bill..|

## 05.2.1). Text File of the generated bill

```
*bill1 - Notepad
File Edit View

Super Market bill
=====

ITEM NO      NAME      QUANTITY  PRICE
2            Face_Wash    2        764.75
3            Hair_Gel     1        310.5

*****
TOTAL = Rs.1075.25
*****
***** THANKS *****
```

# Application

## Using Education Mode

EDU\_MOD:amount-report

### INVENTORY DETAILS

ITEM NO	NAME	PRICE	QUANTITY	TAX %	DISCOUNT %	NET AMOUNT
2	Face_Wash	350.00	2.00	15.00	5.00	764.75
3	Hair_Gel	270.00	1.00	15.00	0.00	310.50

Grand Total=1075.25|

EDU\_MOD:amount-add

Inventory Editor

=====

- 1.Add Item Details
- 2.Edit Item Details
- 3.Delete Item Details
- 4.Back to Main Menu 1

Item No: |

EDU\_MOD:amount-show

Enter Item Number :2

Item No: 2

Name of the item: Face\_Wash

Date : 8--11--2024

Net amount: 764.75

\*\*\*\*\*

### DETAILS

\*\*\*\*\*

PRICE :350.00

QUANTITY :2.00

TAX PERCENTAGE :15.00

DISCOUNT PERCENTAGE :5.00

NET AMOUNT :Rs.764.75

\*\*\*\*\*|

# Usability

- Pharmacies and drugstores
- Health and Beauty care shops
- Food and Beverage shops
- Supermarkets
- Online shopping platforms



# Future Improvements

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- ☐ Add a feature to sort the items
  - By name
  - By price
  - By expiry date
- ☐ Store the price history of items
- ☐ Use graphical user interfaces
- ☐ Use a database system
- ☐ Use a password-protected system
- ☐ Use a barcode system for items



# Thank You.