

BSIT-3F

Web Programming

Final

“RetailEase: A Smart Retail Store Management System for Retail Store Owners”

Submitted by:

CANDINATO, JOMEL

Submitted to:

PROF. JISSALYN ITALIA

SYSTEM DESIGN

Login Page:

The screenshot shows the Login page of the RetailEase system. The page has a background image of a grocery store aisle. At the top, it says "Welcome to *RetailEase!*" and "A Smart Retail Store Management System for Retail Store Owners". Below this is a "Login" form with fields for "Username:" (containing "jornel") and "Password:" (containing "jorn12345"). There is a blue "Login" button and a link that says "Don't have an account? Signup here."

Signup Page:

The screenshot shows the Signup page of the RetailEase system. The page has a background image of a grocery store aisle. At the top, it says "Don't have an account?" and "Please signup here!". Below this is a "Signup" form with fields for "Name:" (containing "Jornel Candiano"), "Username:" (containing "jornel"), and "Password:" (containing "jorn12345"). There is a blue "Register" button and a link that says "Already have an account? Login here."

If the user inputs an incorrect username or password, an error message will pop up.

The screenshot shows the Login page with an error message. The "Username:" field now contains "jp" and a red error message "Invalid username or password" is displayed next to it. The "Password:" field contains "*****". The "Login" button and the "Don't have an account? Signup here." link are still visible.

If the user registers a duplicate/existing username, an error message will pop up.

The screenshot shows the Signup page with an error message. The "Username:" field now contains "jornel" and a red error message "Username already exists" is displayed next to it. The "Name:" field contains "Jornel Candiano" and the "Password:" field contains "*****". The "Register" button and the "Already have an account? Login here." link are still visible.

Home Page:



Stocks Page:

This is the **Inventory/Stocks Page** of the system, where we can be able to add an item together with its price and quantity. To add an item, what we need is to fill up the necessary fields such as item name, wholesale price, retail price, and its quantity.

RetailEase A Smart Retail Store Management System for Retail Store Owners

Inventory Management

Add Items or Products:

Item Name: Redhorse Beer (1L)

Wholesale Price: 100

Retail Price: 120

Quantity: 10

Add Item

Inventory List

Item Name	Wholesale Price	Retail Price	Quantity	Date Added	Action
Redhorse Beer (1L)	100.00	120.00	10	2025-06-01 18:48:22	Edit

After clicking the **Add Item** button, this notification will pop up, and the item will now be displayed in the Inventory List.

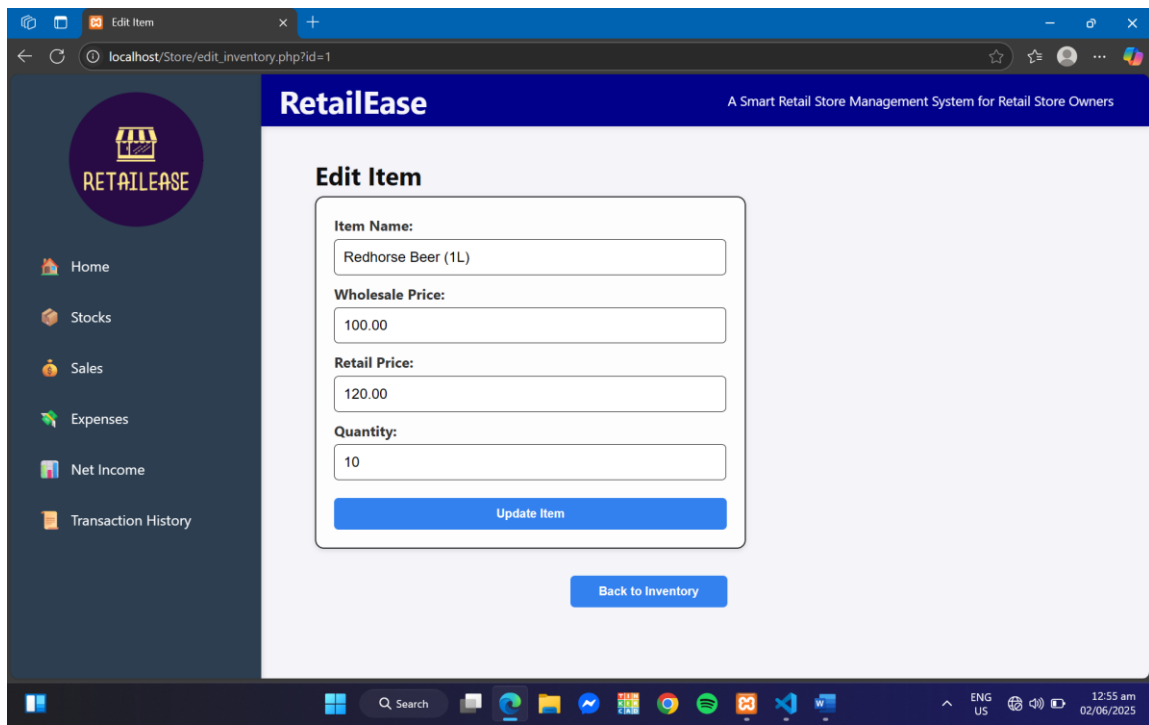
localhost says
Item added successfully.

OK

Inventory List

Item Name	Wholesale Price	Retail Price	Quantity	Date Added	Action
Redhorse Beer (1L)	100.00	120.00	10	2025-06-01 18:48:22	Edit

We can also edit an item. Upon clicking the **Edit** button, we can edit the wholesale price, retail price, and quantity of a specific item. This edit feature can be used especially when there's a sudden change of prices in the real market.



If we are going to add an existing item or if we added an item before and we add it again with the same name, it will not display a new list of items; it will just update its quantity.

The diagram illustrates the process of updating an item's quantity in the RetailEase system. It shows the 'Add Items or Products' form, the 'Inventory List' table, and a confirmation message.

Add Items or Products:

- Item Name: Bottled Water (500ml)
- Wholesale Price: 10
- Retail Price: 15
- Quantity: 11

Inventory List (Initial State):

Item Name	Wholesale Price	Retail Price	Quantity	Date Added	Action
Redhorse Beer (1L)	100.00	120.00	10	2025-06-01 18:48:22	Edit
Bottled Water (500ml)	10.00	15.00	10	2025-06-01 18:50:12	Edit

localhost says
Item quantity updated successfully.

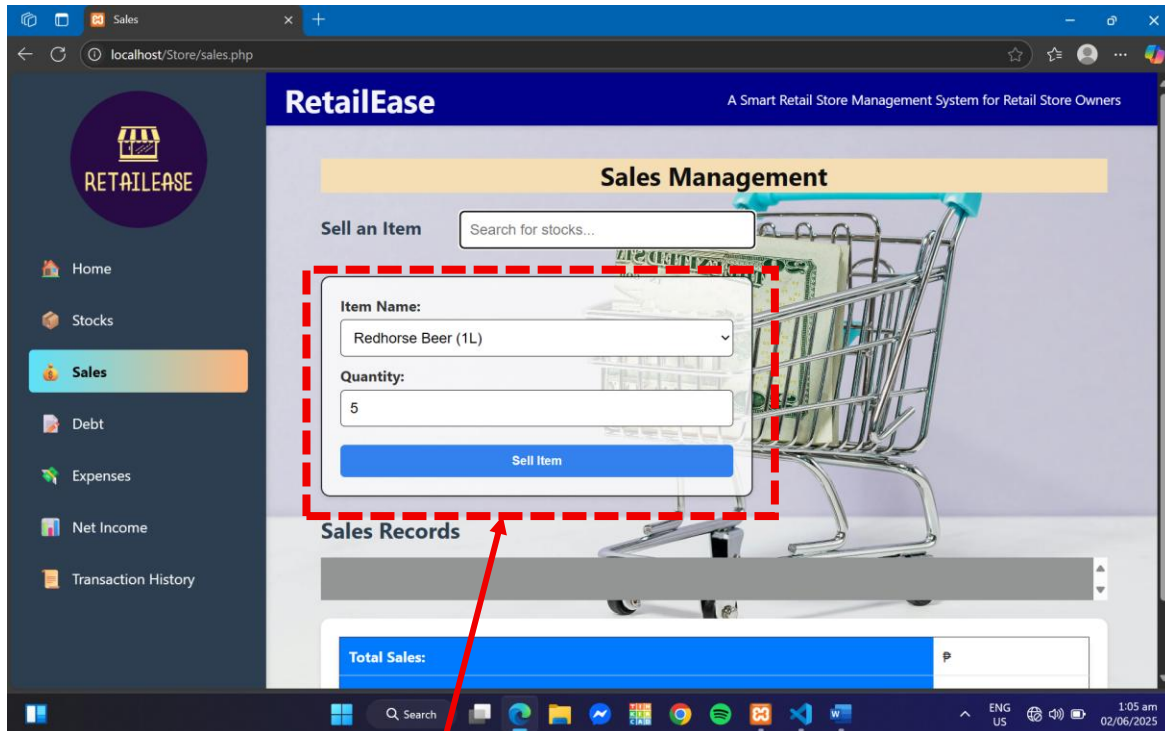
Inventory List (Final State):

Item Name	Wholesale Price	Retail Price	Quantity	Date Added	Action
Redhorse Beer (1L)	100.00	120.00	10	2025-06-01 18:48:22	Edit
Bottled Water (500ml)	10.00	15.00	21	2025-06-01 18:50:12	Edit

Red arrows indicate the flow of data: from the 'Add Items or Products' form to the 'Inventory List' table, and from the 'localhost says' message to the 'Inventory List' table. The 'Existing item' label points to the 'Bottled Water (500ml)' row in the initial state table.

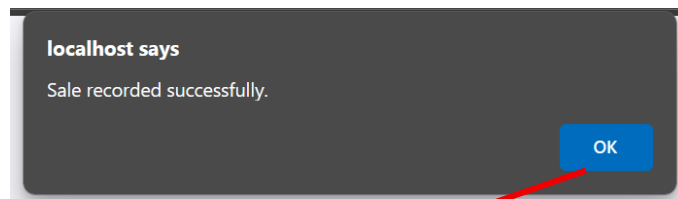
Sales Page:

The **Sales Page** allows us to sell items.



To sell an item, we can choose from a **dropdown list** of items that are fetched from the inventory. We can also input a quantity of an item of how many we are going to sell.

After clicking the **Sell Item** button, this notification will pop up, and the sold item will now be displayed in the Sales Records.

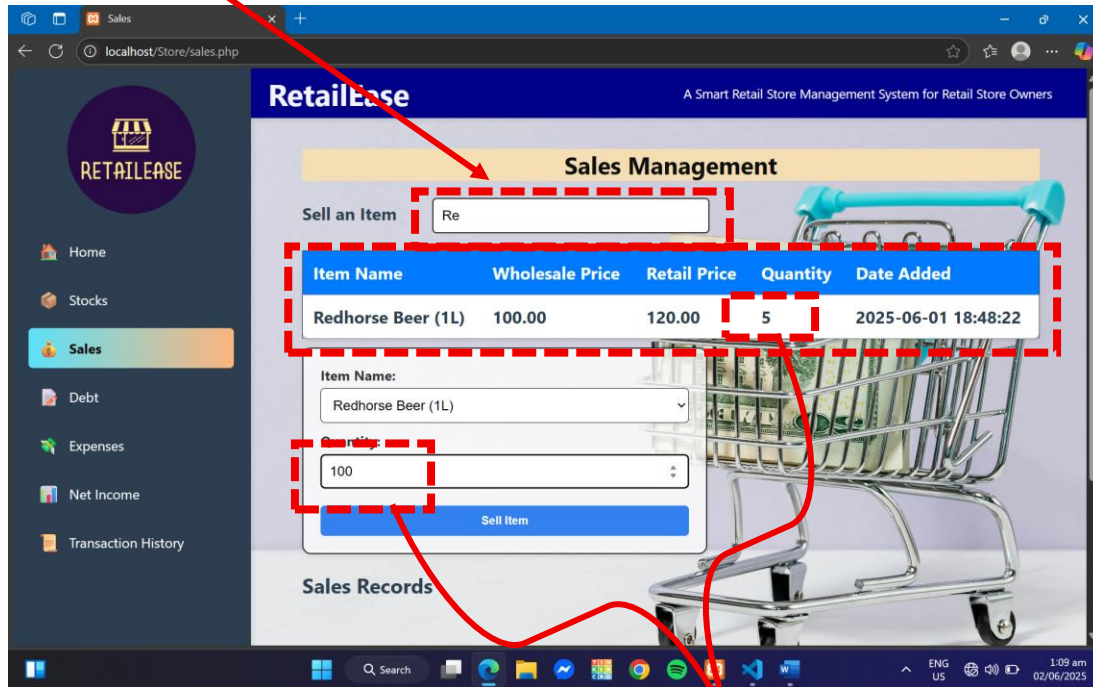
A screenshot of the 'Sales Records' section. It features a table with the following data:

Item Name	Quantity Sold	Total Retail Price	Sales Revenue	Sale Date
Redhorse Beer (1L)	5	600.00	100.00	2025-06-02 01:06:08

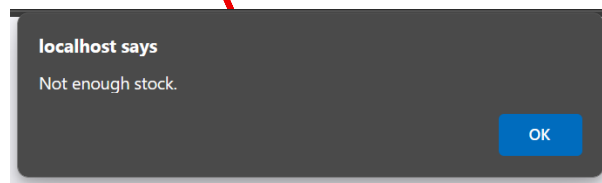
Below the table is a summary box with two rows: 'Total Sales:' and 'Income from Sales:'. The 'Total Sales:' row shows '₱ 600.00' and the 'Income from Sales:' row shows '₱ 100'. A red dashed box highlights the summary box. A red arrow points from the 'OK' button in the notification above to the 'Sales Records' table.

The **Total Sales** refers to the sum of the retail prices and quantities of items sold while the **Income from Sales** is the sum of all the sales revenue.

Also, the Sales Page has a **Search for stocks** feature for us to be able to view the quantity of an item in the inventory.

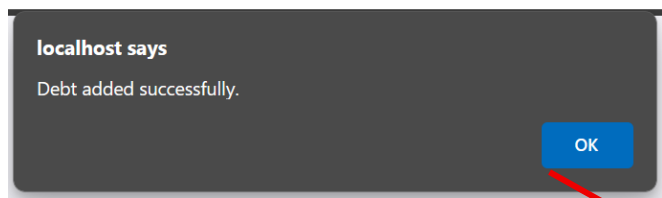
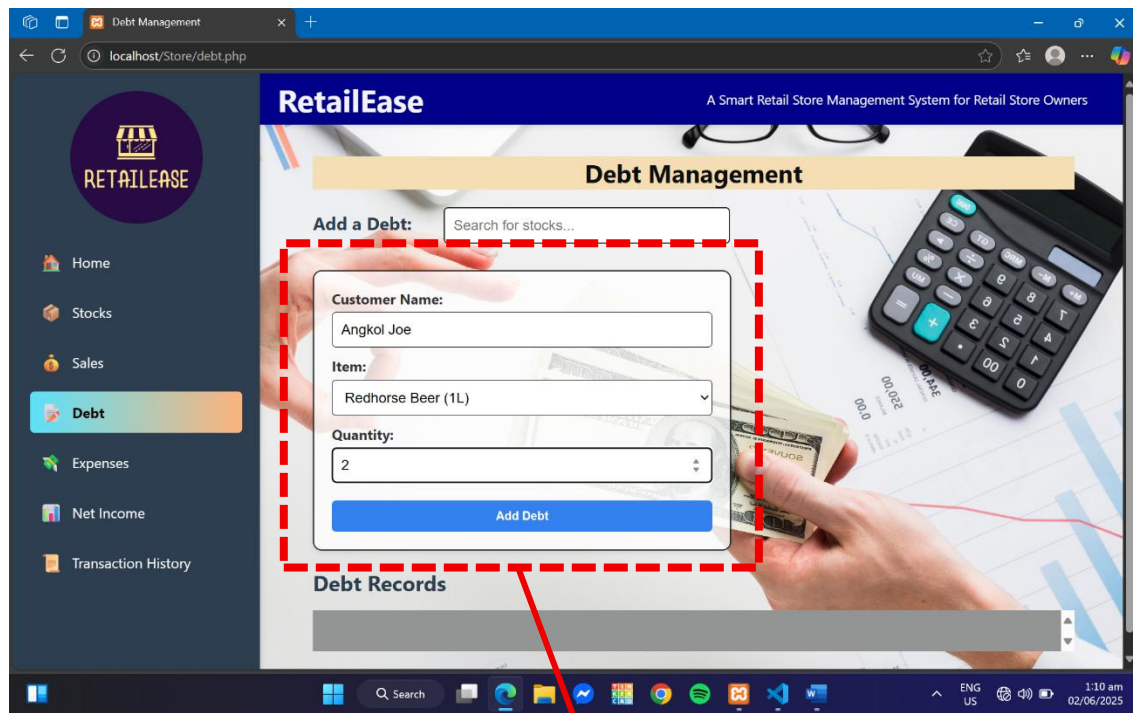


If we sell an item and input a quantity that exceeds its quantity from the inventory, an error message will pop up.



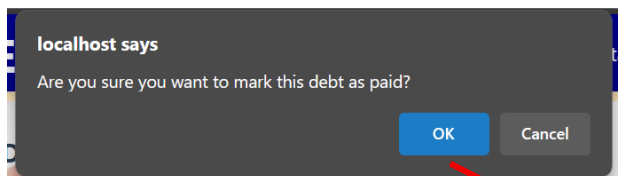
Debt Page:

The **Debt Page** is closely related to the Sales Page. It has a **Search for stocks** feature and a **dropdown list** of items based on its availability in the inventory.



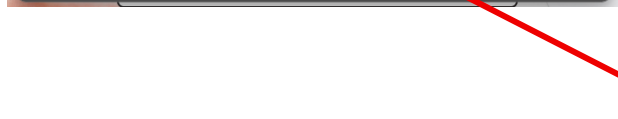
But when a debt is made by a specific customer, the amount of an item made as debt will not be added to the Total Sales. It will be recorded with an **Unpaid** status. The only thing that will be affected is the quantity of an item owed by someone.

Customer Name	Item Name	Quantity	Total Amount	Date	Status	Action
Angkol Joe	Redhorse Beer (1L)	2	240.00	2025-06-02 01:10:32	Unpaid	Pay



The amount of item made as debt will only be added to the Total Sales if the customer pays his or her owed item. For example, if we click on **Pay** action, its status will become **Paid**, and it will be converted as a sale on the Sales Page as well as adding its corresponding amount to the Total Sales.

Customer Name	Item Name	Quantity	Total Amount	Date	Status	Action
Angkol Joe	Redhorse Beer (1L)	2	240.00	2025-06-02 01:10:32	Paid	



Item Name	Quantity Sold	Total Retail Price	Sales Revenue	Sale Date
Redhorse Beer (1L)	2	240.00	40.00	2025-06-02 01:12:52
Redhorse Beer (1L)	5	600.00	100.00	2025-06-02 01:06:08

Total Sales:	₱ 840.00
Income from Sales:	₱ 140

Expenses Page:

The system's **Expenses Page** allows us to add an expense. In this page, we can input the type of expense, amount and date.

RetailEase A Smart Retail Store Management System for Retail Store Owners

Expenses Management

Add Expense

Expense Type:

Amount:

Date and Time:

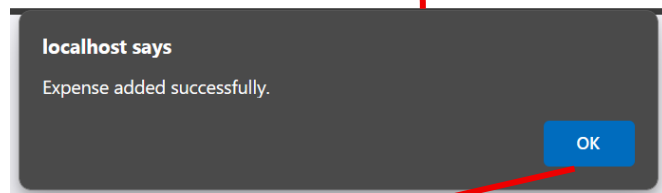
Add Expense

Expense Records

Expense Type	Amount	Date and Time	Actions
Mobile Load	100.00	2025-06-02 01:14:00	Delete

Total Expenses: ₱ 100

After clicking the **Add Expense** button, this notification will pop up, and the expense will be recorded in the **Expense Records**.



Expense Type	Amount	Date and Time	Actions
Mobile Load	100.00	2025-06-02 01:14:00	Delete

Total Expenses:	₱ 100
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Total Sales before expenses

VS

Total Sales after expenses

Item Name	Quantity Sold	Total Retail Price	Sales Revenue	Sale Date
Redhorse Beer (1L)	2	240.00	40.00	2025-06-02 01:12:52
Redhorse Beer (1L)	5	600.00	100.00	2025-06-02 01:06:08

Total Sales:	P 840.00
Income from Sales:	P 140

Item Name	Quantity Sold	Total Retail Price	Sales Revenue	Sale Date
Redhorse Beer (1L)	2	240.00	40.00	2025-06-02 01:12:52
Redhorse Beer (1L)	5	600.00	100.00	2025-06-02 01:06:08

Total Sales:	P 740.00
Income from Sales:	P 140

When an expense is made, its amount is a **deduction** in the Total Sales because the Total Sales represents as the capital money for all the retail store transactions.

Talking about deductions in Total Sales, since we now have generated sales based on the items sold and when we **add a new item** to our inventory, its **wholesale price and quantity is a deduction** from the Total Sales.

For example, we want to add a new item:

- 3 pieces “Coke Mismo”
- wholesale price = P10.00
- retail price = P20.00.

RetailEase A Smart Retail Store Management System for Retail Store Owners

Inventory Management

Add Items or Products:

Item Name:

Wholesale Price:

Retail Price:

Quantity:

Inventory List

Item Name	Wholesale Price	Retail Price	Quantity	Date Added	Action
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localhost says

Item added successfully.

Inventory List

Item Name	Wholesale Price	Retail Price	Quantity	Date Added	Action
Redhorse Beer (1L)	100.00	120.00	3	2025-06-01 18:48:22	Edit
Bottled Water (500ml)	10.00	15.00	21	2025-06-01 18:50:12	Edit
Coke Mismo	10.00	20.00	3	2025-06-01 19:21:20	Edit

Total Sales before adding Coke Mismo

Sales Records				
Item Name	Quantity Sold	Total Retail Price	Sales Revenue	Sale Date
Redhorse Beer (1L)	2	240.00	40.00	2025-06-02 01:12:52
Redhorse Beer (1L)	5	600.00	100.00	2025-06-02 01:06:08
Total Sales:			₱ 740.00	
Income from Sales:			₱ 140	

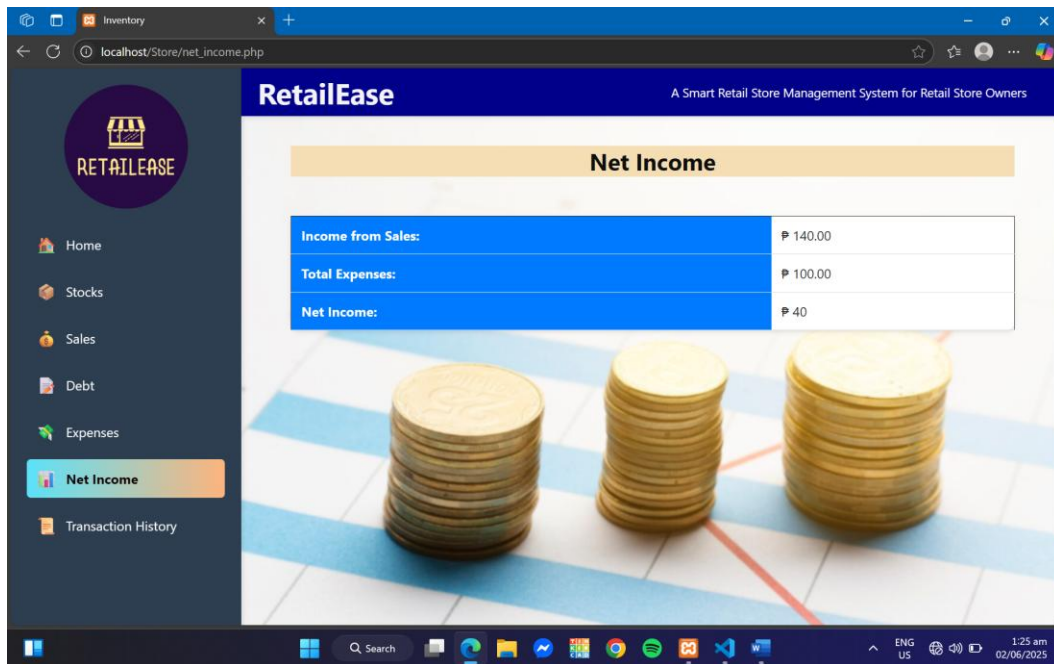
Total Sales after adding Coke Mismo

Sales Records				
Item Name	Quantity Sold	Total Retail Price	Sales Revenue	Sale Date
Redhorse Beer (1L)	2	240.00	40.00	2025-06-02 01:12:04
Redhorse Beer (1L)	5	600.00	100.00	2025-06-02 01:02:32
Total Sales:			₱ 710.00	
Income from Sales:			₱ 140	

Total Sales (P740.00) – Coke Mismo's Wholesale Price & Quantity (3 x 10 = P30.00)

Net Income Page:

The **Net Income** is calculated by subtracting the **Total Expenses** from the **Income from Sales**.



Transaction History Page:

The **Transaction History Page** shows all the transactions that happened throughout the retail store operation.

RetailEase
A Smart Retail Store Management System for Retail Store Owners

Transaction History

Transaction Type	Item Name	Quantity	Transaction Date
add_item	Redhorse Beer (1L)	10	2025-06-02 00:48:22
add_item	Bottled Water (500ml)	10	2025-06-02 00:50:12
add_item	Bottled Water (500ml)	5	2025-06-02 00:52:28
add_item	Bottled Water (500ml)	6	2025-06-02 00:53:09
sale	Redhorse Beer (1L)	5	2025-06-02 01:02:32
debt	Redhorse Beer (1L)	2	2025-06-02 01:11:48
debt_payment	Redhorse Beer (1L)	2	2025-06-02 01:12:04
expense	Mobile Load	100	2025-06-02 01:14:00

[Export](#)

This page has an **Export** button. Upon clicking it, it will download all the transaction history records into an Excel document format.

The screenshot shows the 'RetailEase' application interface. On the left is a sidebar with navigation links: Home, Stocks, Sales, Debt, Expenses, Net Income, and Transaction History (highlighted). The main content area is titled 'Transaction History' and displays a table with the following data:

Transaction Type	Item Name	Quantity	Transaction Date
add_item	Redhorse Beer (1L)	10	2025-06-02 00:48:22
add_item	Bottled Water (500ml)	10	2025-06-02 00:50:12
add_item	Bottled Water (500ml)	5	2025-06-02 00:52:28
add_item	Bottled Water (500ml)	6	2025-06-02 00:53:09
sale	Redhorse Beer (1L)	5	2025-06-02 01:02:32
debt	Redhorse Beer (1L)	2	2025-06-02 01:11:48
debt_payment	Redhorse Beer (1L)	2	2025-06-02 01:12:04
expense	Mobile Load	100	2025-06-02 01:14:00

At the bottom right of the table is a green button with a download icon. A red dashed box highlights this button. A red arrow points from the 'Export' button mentioned in the text to this download button. Another red dashed box highlights the browser's download bar, which shows the file 'transaction_history.xls' has been downloaded and is ready to be opened.

The screenshot shows the Microsoft Excel application with the downloaded data. The spreadsheet has columns A through N and rows 1 through 22. The data is organized as follows:

Transaction Type	Item Name	Quantity	Transaction Date
add_item	Redhorse Beer (1L)	10	02/06/2025 0:48
add_item	Bottled Water (500ml)	10	02/06/2025 0:50
add_item	Bottled Water (500ml)	5	02/06/2025 0:52
add_item	Bottled Water (500ml)	6	02/06/2025 0:53
sale	Redhorse Beer (1L)	5	02/06/2025 1:02
debt	Redhorse Beer (1L)	2	02/06/2025 1:11
debt_payment	Redhorse Beer (1L)	2	02/06/2025 1:12
expense	Mobile Load	100	02/06/2025 1:14
add_item	Coke Mismo	3	02/06/2025 1:21

A red arrow points from the download button in the previous screenshot to this Excel spreadsheet, indicating the successful export of the data.

Logout:

In the bottom right corner of the home page, there's a **Logout** button, and if we click on it, we will be redirected back to the Login page.

