

**TRI-MARK
CONSTRUCTION SUPPLY**

**Tri-Mark Construction Supply
Product Management System
Utilizing Barcode Technology**

USER MANUAL

(As of July 2024)



**Technological Institute of the
Philippines
Tri-Mark Construction Supply
Utilizing Barcode Technology**

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1.0 REQUIREMENTS

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This section shows the needed requirements for the application.

1.1 Hardware Requirements

- Desktop
- 4 GB RAM (minimum)
- Dual Core Processor (minimum)
- 100 GB of Hard drive (minimum)

1.2 Software Requirements

- Window 7 and above

1.3 Development Tool/ Platform Used

- Microsoft Visual Studio Code
- Desktop or Laptop with minimum RAM of 4GB

2.0 GETTING STARTED

This section shows the introduction to the application.

2.1 How to Access

Click the executable to launch the software.

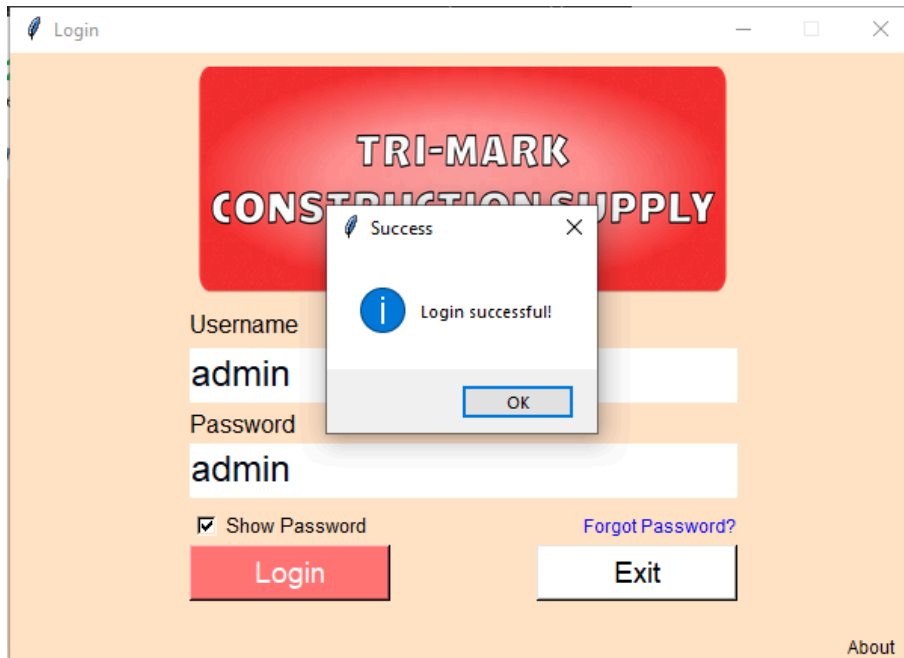


2.2 Login to as admin

The user must login as admin first.

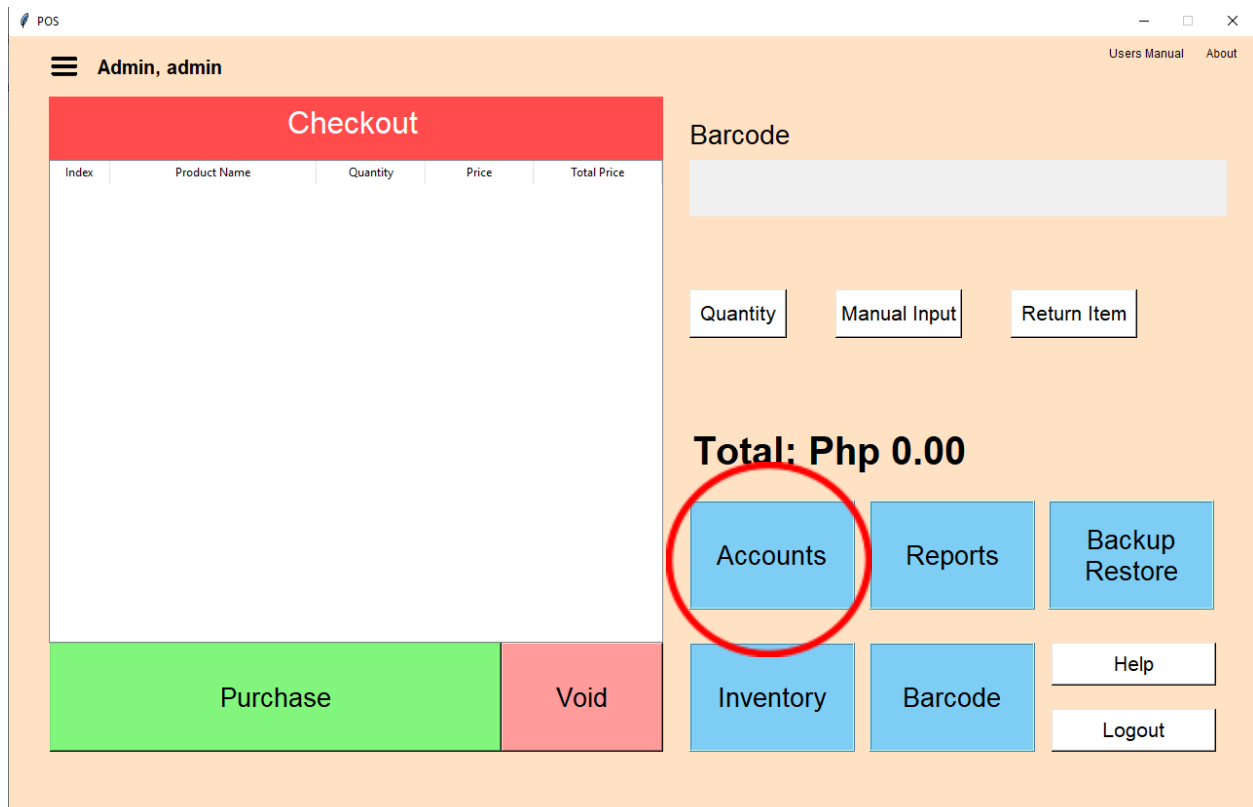
A screenshot of a login window titled 'Login'. The window has a light orange background. At the top center, there is a red rounded rectangle containing the text 'TRI-MARK CONSTRUCTION SUPPLY' in white, bold, uppercase letters. Below this, there are two text input fields. The first is labeled 'Username' and contains the text 'admin'. The second is labeled 'Password' and contains the text 'admin'. Below the password field, there is a checkbox labeled 'Show Password' which is checked. To the right of the checkbox, there is a blue link that says 'Forgot Password?'. At the bottom left, there is a red button labeled 'Login'. At the bottom right, there is a white button labeled 'Exit'. In the bottom right corner of the window, there is a small link that says 'About'.

Input the the system generated account if this is the first time you are opening the software



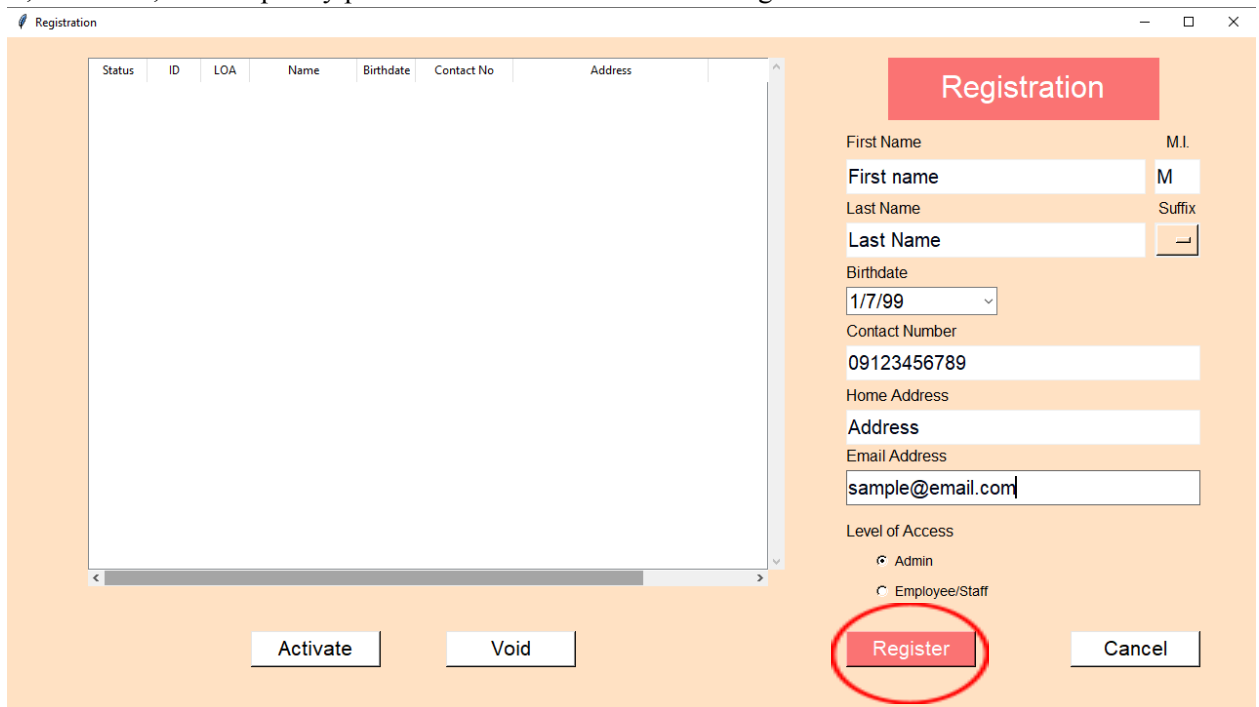
2.3 Navigate to Accounts

Click the “Accounts” button to access and view the accounts registered to the system.



2.4 Register an Account

Register a new account by inputting the credentials on the entrybox on the right. Make sure to fill-up every entry (except for the Middle Initial and Suffix, those two are optional) and choose the appropriate Level of Access for the user. Then click register. It will send the account id, username, and temporary password into the said email and login the created account



The Registration form is displayed in a window titled "Registration". On the left is a table with columns: Status, ID, LOA, Name, Birthdate, Contact No, and Address. The table is currently empty. On the right is a form with the following fields:

- First Name:** Input field with "First name" text, value "M", and a "M.I." label.
- Last Name:** Input field with "Last Name" text, value "M", and a "Suffix" label.
- Birthdate:** Dropdown menu with "1/7/99" selected.
- Contact Number:** Input field with "09123456789".
- Home Address:** Input field with "Address".
- Email Address:** Input field with "sample@email.com".
- Level of Access:** Radio buttons for "Admin" (selected) and "Employee/Staff".

At the bottom are four buttons: "Activate", "Void", "Register" (circled in red), and "Cancel".



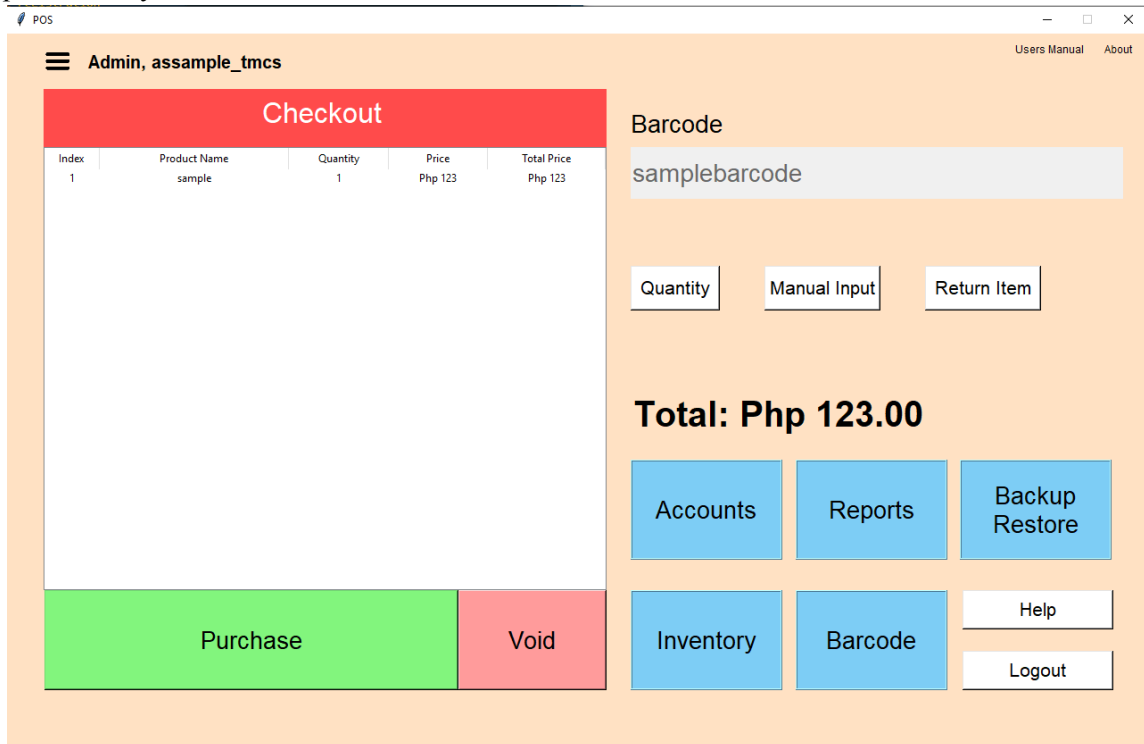
The Login form is displayed in a window titled "Login". At the top is a red banner with the text "TRI-MARK CONSTRUCTION SUPPLY". Below the banner are the following fields:

- Username:** Input field with "assample_tmcs".
- Password:** Input field with masked characters ".....".
- Show Password:** A checkbox that is currently unchecked.
- Forgot Password?:** A blue link.

At the bottom are two buttons: "Login" (red) and "Exit" (white). In the bottom right corner is a link labeled "About".

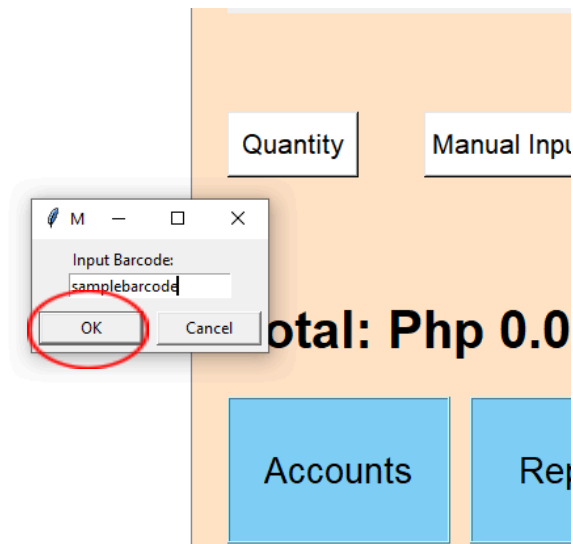
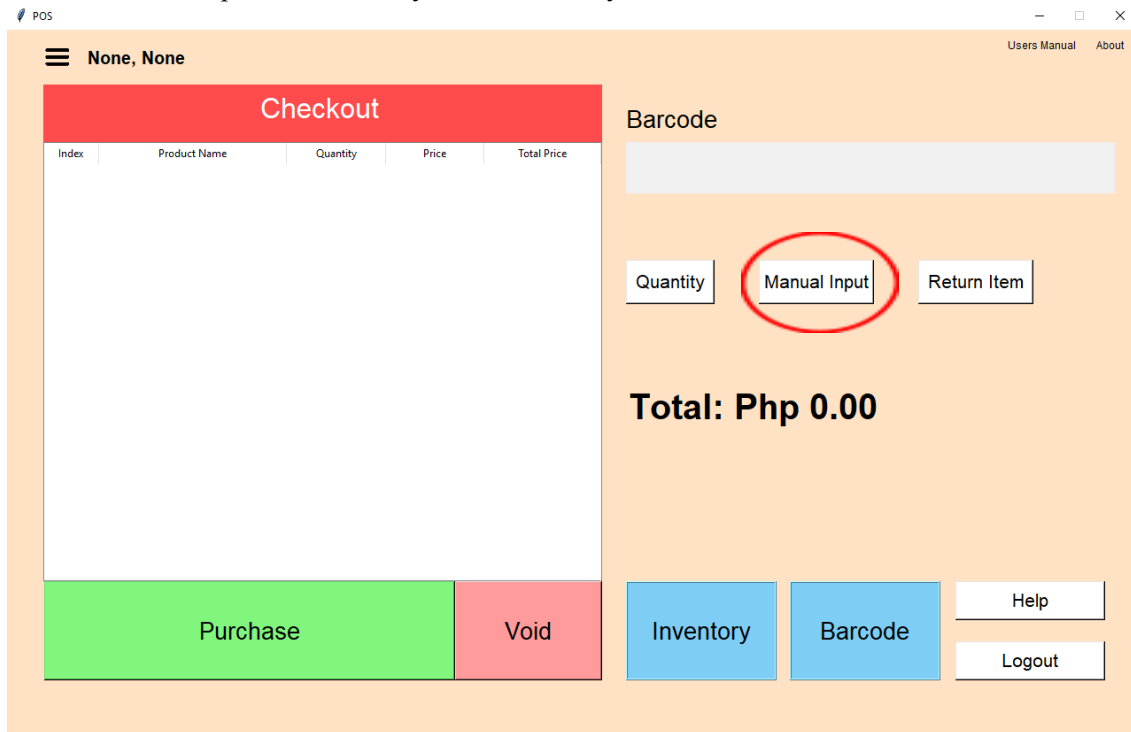
3.1 Accessing Transaction (with Barcode Scanner)

To begin a transaction with a Barcode scanner you need to connect the barcode scanner first. Make sure that you are focused on the software window so that the scanned barcode will be processed by the software.



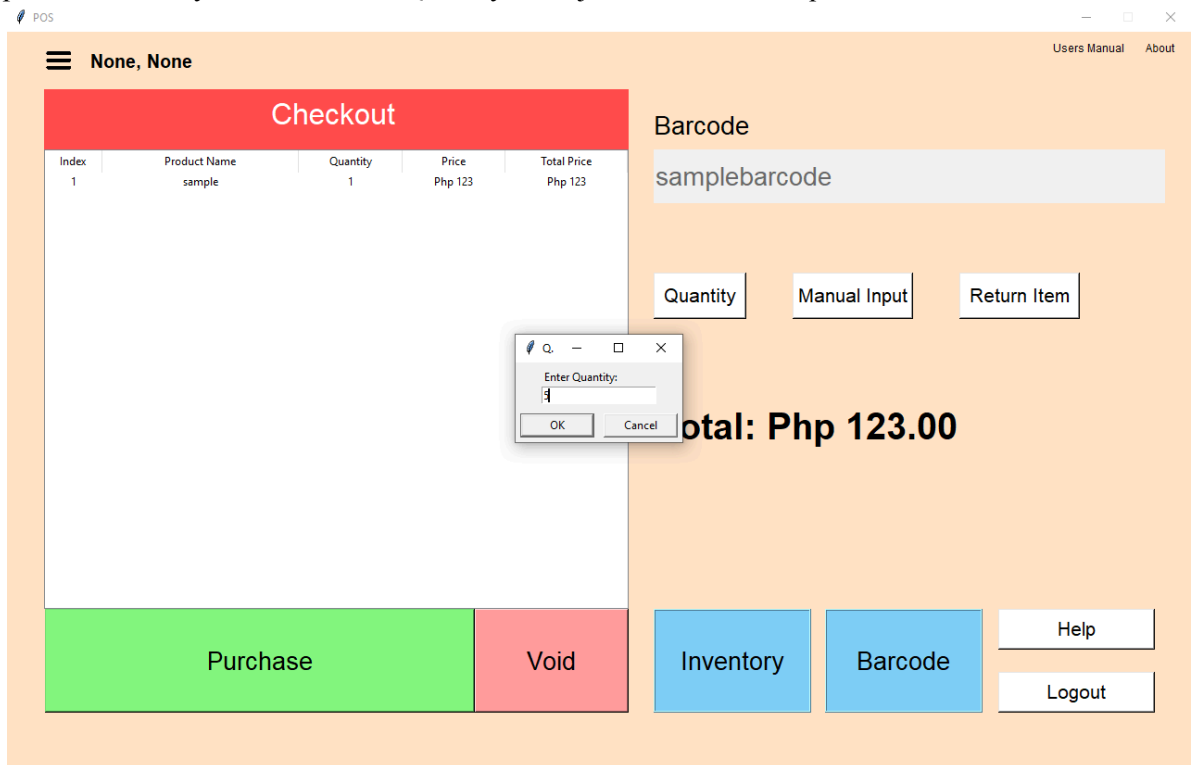
3.2 Accessing Transaction (without Barcode Scanner)

To begin a transaction without a Barcode scanner you need to click the manual input. Then enter the barcode of the product manually and click 'Okay'.



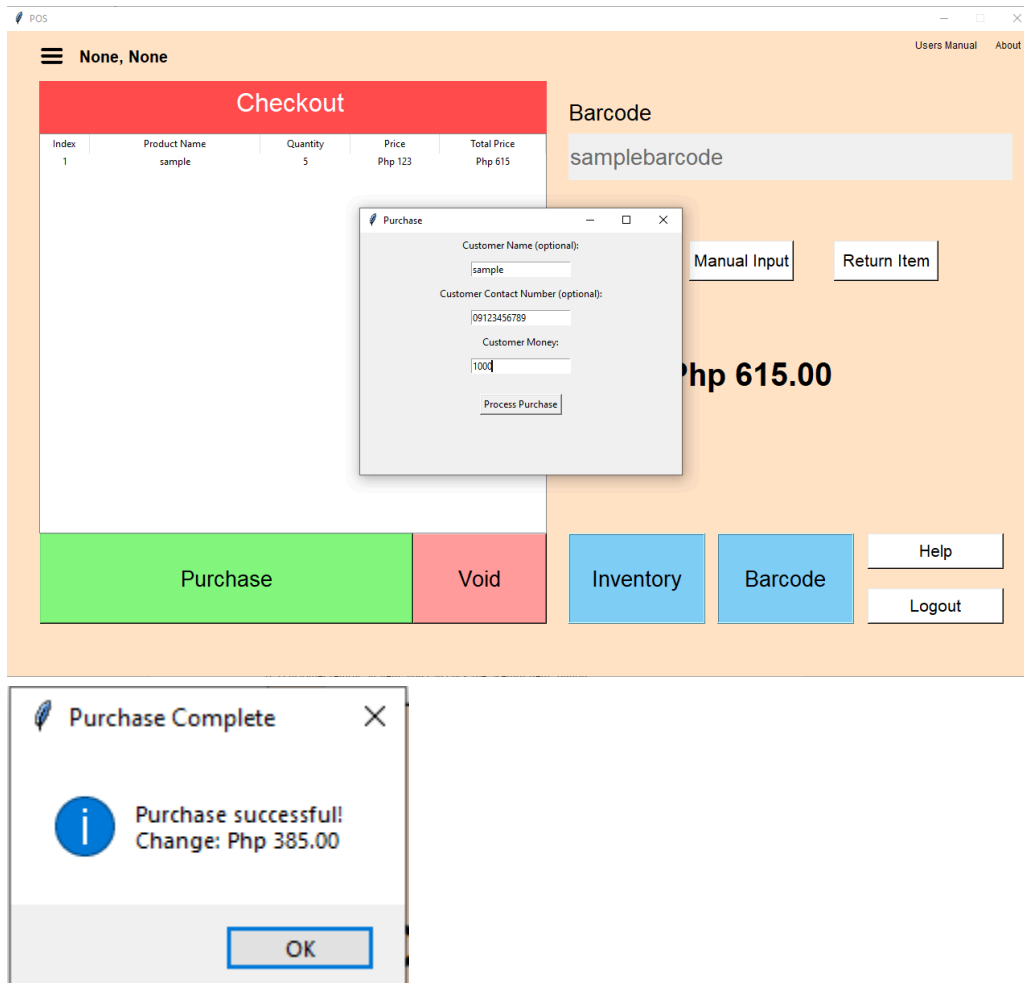
4.0 Same product with multiple quantity

If a customer is buying the same product multiple times, you can scan the barcode or input the product manually first then click 'Quantity' to adjust the number of quantities.



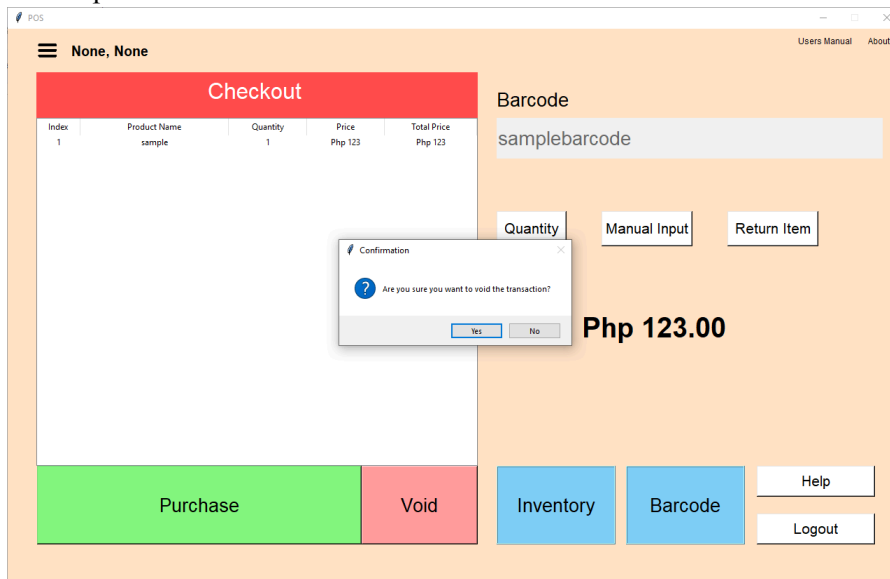
5.0 Purchase

If all the products are in the 'Checkout' table you can now click the 'Purchase' button. it will prompt a new window where you need to input the money given by the customer and optionally the customer's name and contact number.



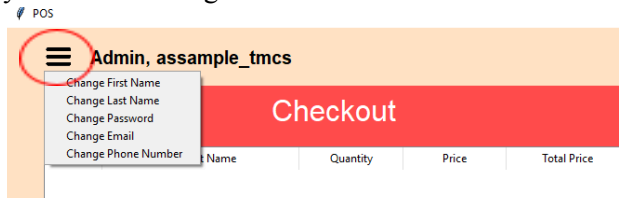
6.0 Void

If in case you need to cancel the transaction, you need to click the 'Void' button to void the current products that are in the Checkout list.



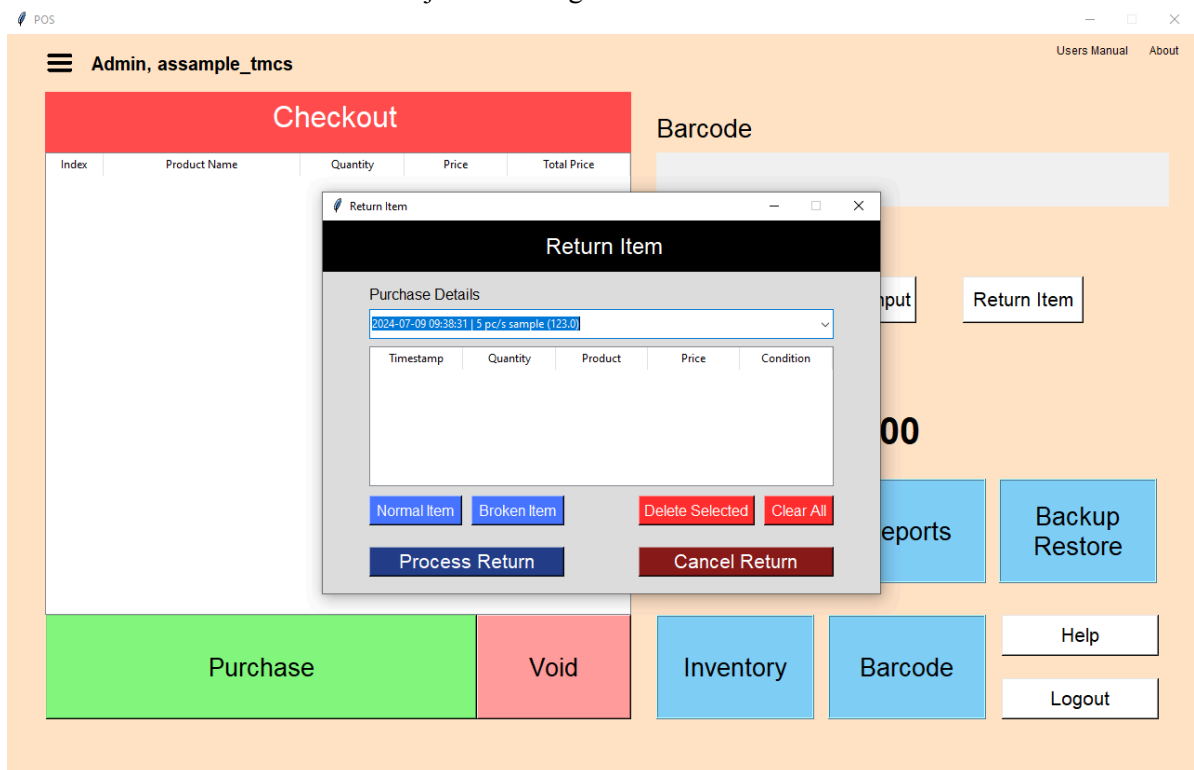
7.0 Change credentials

If you want to change the first name, last name, password, email, or phone number you just need to click the hamburger button on the upper left corner of the window and select the credentials you want to change.



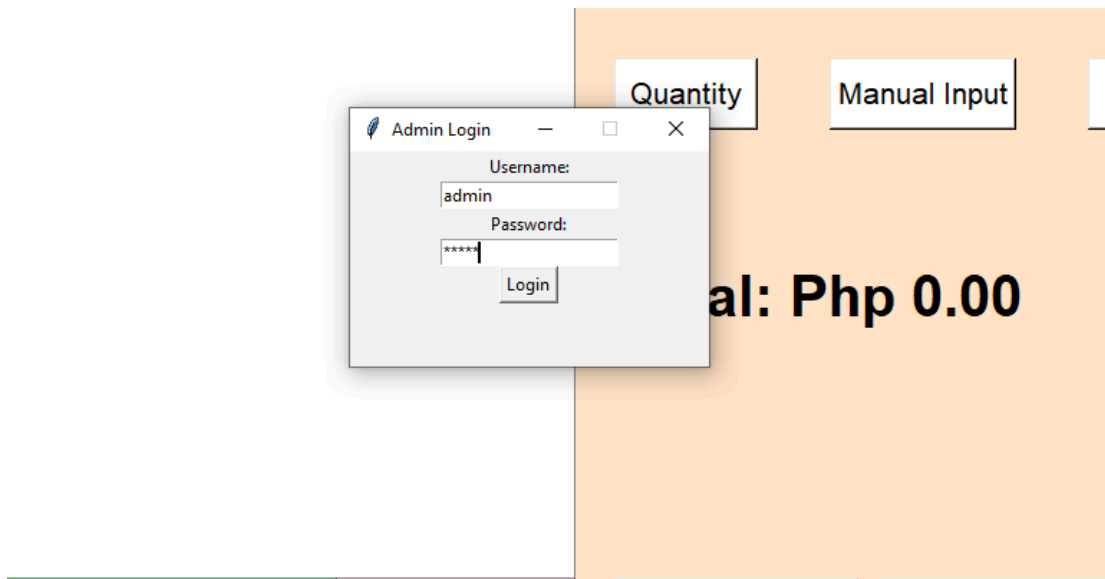
8.1 Return Item

If a customer returns an item, you can click the 'Return Item' button. Then you can select the item that was transacted. Then choose whether the reason for returning is because the product was broken then click "Broken Item" or just returning the item click "Normal Item"



8.2 Return Item (not Admin)

If a customer returns an item, you can click the 'Return Item' button. If the user level of access is not an "Admin", it will prompt a window where an admin account needs to login to access the return item function.



9.0 Accounts (Only Accessible by an Admin)

In the accounts button, this is where you can see the accounts that are registered and also create an account.

The Registration form interface consists of a table on the left and a form on the right.

Status	ID	LOA	Name	Birthdate	Contact No	Address
Active	2024A01	admin	sample sample	1/7/99	091213456789	None
Active	2024A02	admin				
Active	2024A03	admin	try try	7/9/24	09123456789	asdsad

Buttons at the bottom: **Activate**, **Void**, **Register**, **Cancel**.

Registration Form:

- First Name:**
- M.I.:**
- Last Name:**
- Suffix:**
- Birthdate:**
- Contact Number:**
- Home Address:**
- Email Address:**
- Level of Access:**
 - ☐ Admin
 - ☒ Employee/Staff

You can also Activate and Deactivate an account if necessary by selecting the account on the table then pressing the “Activate” or “Void” button on the button

The Registration form interface is shown with a confirmation dialog box overlaid.

Confirmation Dialog:

Are you sure you want to Deactivate this account?

Buttons: **Yes**, **No**

Buttons at the bottom: **Activate**, **Void**.

10.0 Reports (Only Accessible by an Admin)

In the Reports button, this is where you can see the different reports.

The screenshot shows the 'Reports' window with a title bar. At the top, there are date pickers for 'From Date' and 'To Date', both set to '7/9/24'. To the right is a 'Save as PDF' button. Below the date pickers, it says 'Currently Showing: None'. The main area is a large empty box. At the bottom, there are five buttons: 'User Logs', 'Void Transac', 'Sales Report', 'Purchase History', and 'Return History'. A 'Back' button is located at the bottom right.

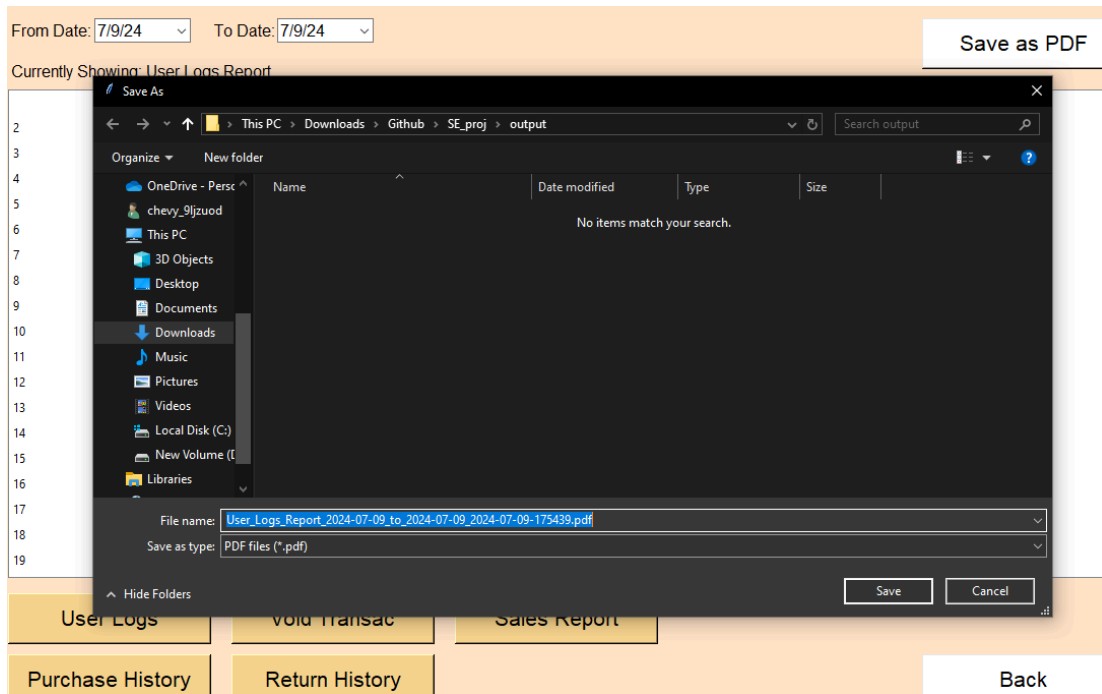
You can select the user logs, Purchase history, Voided Transaction, Return History, and Sales Report.

This screenshot shows the 'Reports' window with the 'User Logs Report' selected. The date pickers remain at '7/9/24'. The 'Save as PDF' button is still present. The text 'Currently Showing: User Logs Report' is displayed. Below this is a table with the following data:

Log ID	Employee ID	Username	Action	Timestamp
2	2024A02	admin	Logged Out	2024-07-09 17:20:25
3	2024A01	assample_tmcs	Logged In	2024-07-09 17:20:29
4	2024A01	assample_tmcs	Logged In	2024-07-09 17:21:09
5	2024A01	assample_tmcs	Logged Out	2024-07-09 17:21:12
6	2024A01	assample_tmcs	Logged In	2024-07-09 17:22:00
7	2024A01	assample_tmcs	Registered a product: sample, none, (P	2024-07-09 17:22:19
8	2024A01	assample_tmcs	Added 100 to the product samplebarco	2024-07-09 17:22:37
9	2024A01	assample_tmcs	Updated samplebarcode to sample, nor	2024-07-09 17:23:06
10	2024A01	assample_tmcs	Updated samplebarcode to sample, nor	2024-07-09 17:23:25
11	2024A01	assample_tmcs	Logged In	2024-07-09 17:24:07
12	2024A01	assample_tmcs	Voided transaction.	2024-07-09 17:25:00
13	2024A01	assample_tmcs	Logged In	2024-07-09 17:27:48
14	2024A01	assample_tmcs	Logged In	2024-07-09 17:40:01
15	2024A01	assample_tmcs	Logged Out	2024-07-09 17:46:31
16	2024A01	assample_tmcs	Logged In	2024-07-09 17:47:33
17	2024A01	assample_tmcs	Go back to POS window	2024-07-09 17:47:44
18	2024A01	assample_tmcs	Registered try try account with admin L	2024-07-09 17:49:19
19	2024A01	assample_tmcs	Logged In	2024-07-09 17:53:07

At the bottom, the same set of buttons is present: 'User Logs', 'Void Transac', 'Sales Report', 'Purchase History', 'Return History', and 'Back'.

If you want to save the report you can select what report to print then click the “Save as PDF” button to save it as pdf. then select where you want to save the pdf.

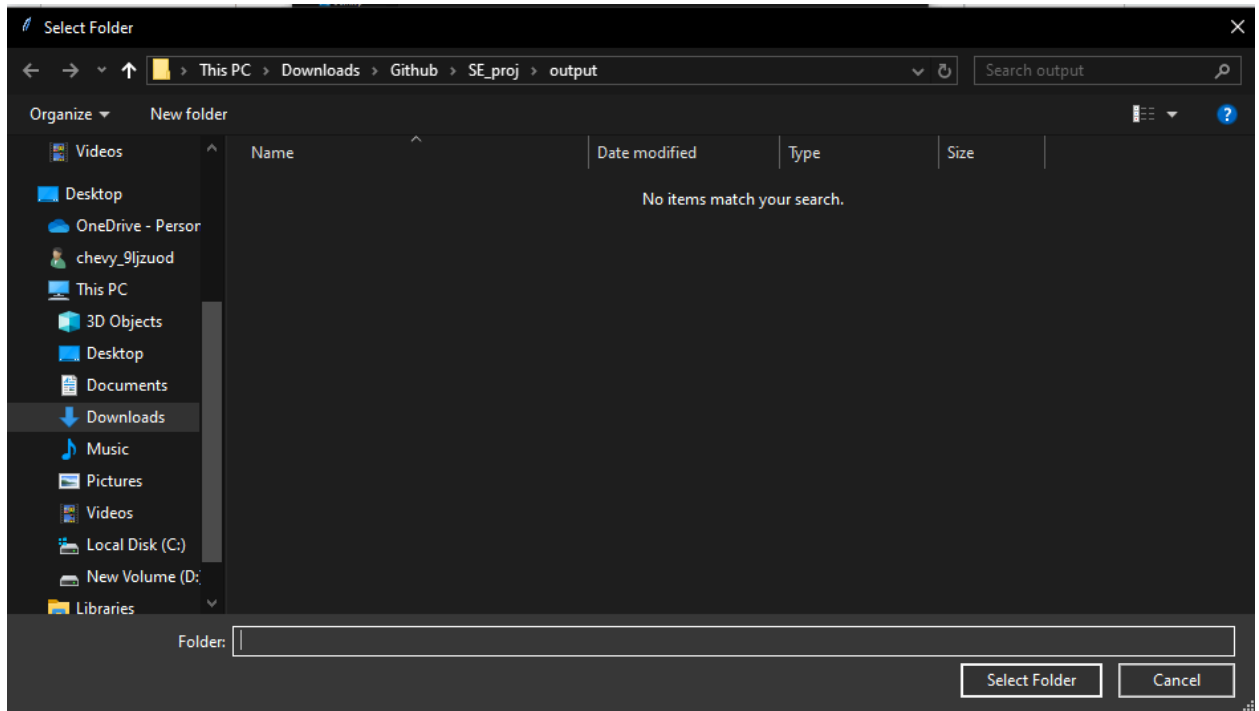


11.0 Backup and Restore (Only Accessible by an Admin)

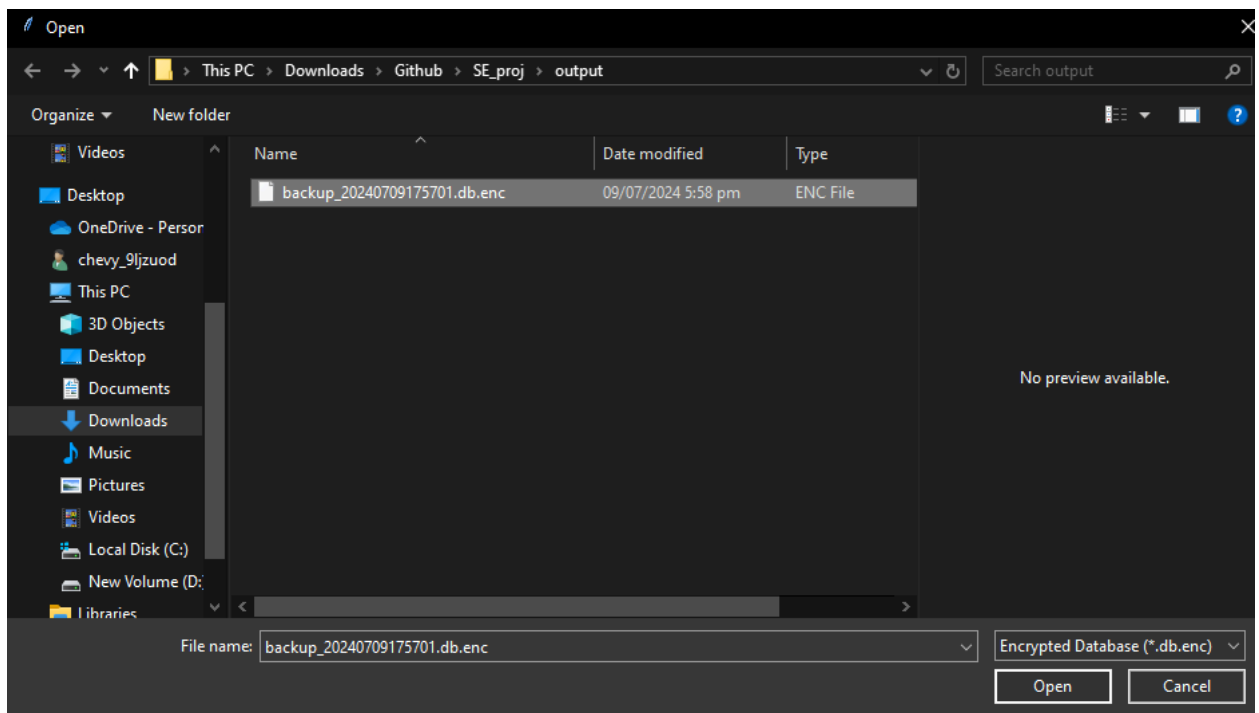
If you need to add a backup of the system you can go to the Backup Restore button.



Then select the Backup to save the current database. Then select where you want to save the backup



If you want to restore the past database you can click the Restore button then find and select the file that was saved as backup.



12.0 Inventory

The inventory button is for checking, registering, adding supply, and updating the products (This is only accessible for users with “admin” level of access). If you click the inventory button it will show you a table with all the products. You can search a product by entering the barcode or the product name then clicking search.

Products

admin

Search Product Barcode or Name

Search

☐ Individual View ☐ Multiple View

Barcode	Product Name	Price	Quantity	Details	Status	Date Delivered	Supplier
samplebarcode	sample	123.00	95	none	Available	2024-07-08	Supplier 1

Register Product Add Supply Update Products Back

If you want to register a product you can go and click the “register product” button. This is where you need to input the necessary information of the product like the barcode, name, price, and critical level. You can also generate a new barcode if the product you are registering does not have a barcode to begin with. Then click save once finished.

Search

Register Product

Register Product

Barcode: LK5ENFKOTA

Create Barcode

Product Name: Test Product

Product Price: 150

Product Details: details

Critical Level: 5

Save

If you want to add a supply in the system, you can click the “add supply ” button, then you can enter the barcode then click “verify” to check if the product you want to add supply to is saved or registered on the system. Then click save once done. If the barcode is registered it will then ask for the number of quantity, the date when it was delivered, and the Supplier then click save.

Add Supply

Barcode: LK5ENFKOTA

Product Name: Test product

Add Quantity: 23

Date Delivered: 07-08-2024

Supplier: Supplier 1

If you want to update a product name, price, details, critical level, and status you can click the “update products” button to then enter the barcode and click verify like in the add supply. It will then show the product name, price, details, its critical level, and the status Then click save to update the product.

Update Product

Barcode: LK5ENFKOTA

Product Name: Test product

Product Price: 125

Product Details: details

Critical Level: 10

Status: ☒ Available

Barcode	Product Name
LK5ENFKOTA	Test product
samplebarcode	sample

Delivered	Supplier
24-07-08	Supplier 1
24-07-08	Supplier 1

13.0 Barcodes

If you want to see the list of products with its barcodes you can click the “Barcodes “ button. Here you can enter the product name or barcode on the entry above then click search to search and show the product.

Barcodes

Barcode

Search

Name	Barcode
sample Test product	samplebarcode LK5ENFKOTA

Save


Back

If you want to see the product barcode you just need to select the product on the table then it will show on the bottom the barcode and if you want to save it you just click the save button. It will create a new folder called Barcode where there will be save the barcode that you saved with its product name as an image file name.

Barcode

Search

Name	Barcode
sample	samplebarcode
Test product	LK5ENFKOTA

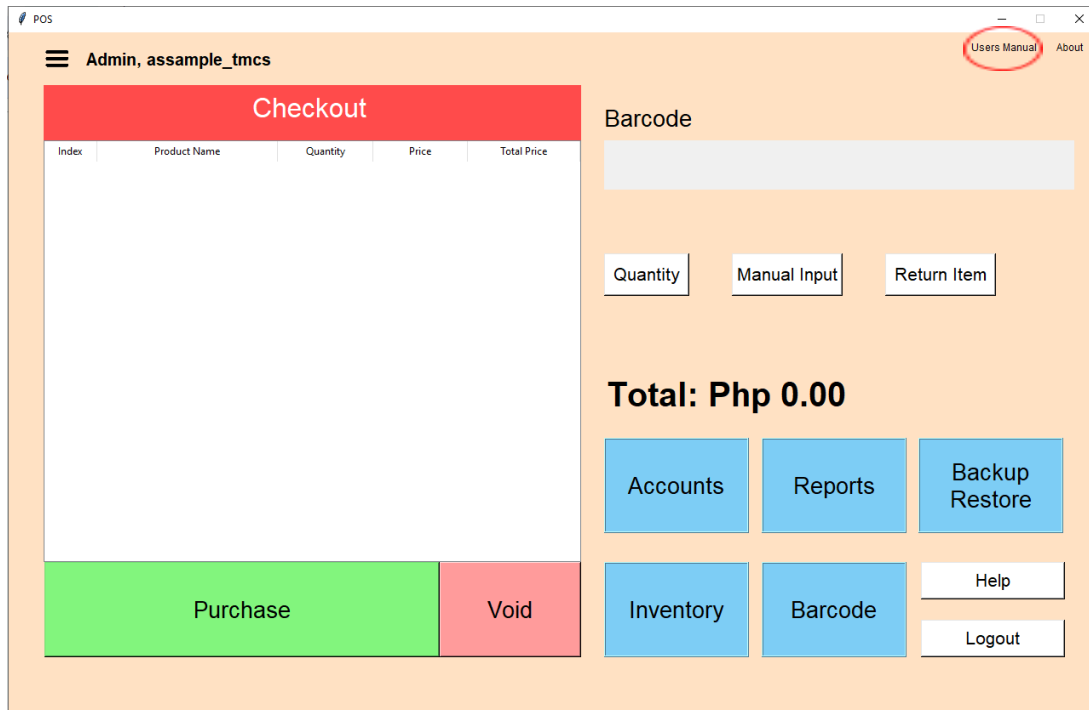


Save

Back

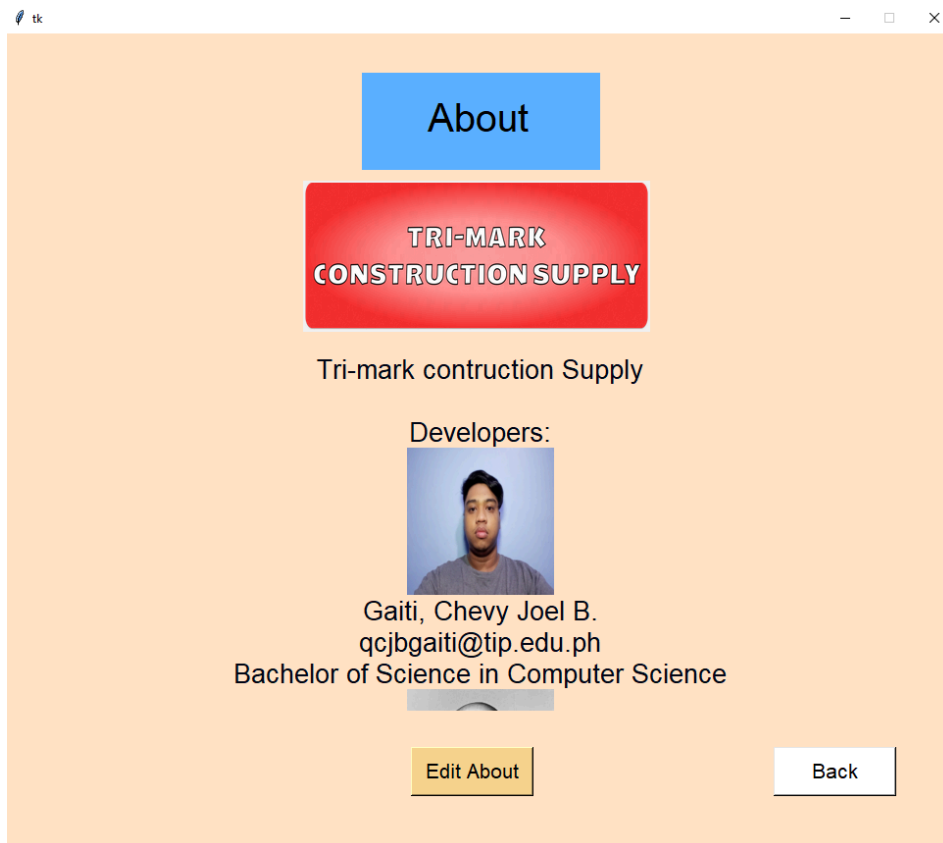
14.0 User Manual

To access the user manual, you can click the user manual text on the upper-right corner of the window. it will show the software's User Manual.



15.0 About

To access the about, you can click the about text on the upper-right corner of the window. it will show the software's description, the developers that made the software, and the logo. The logo can be changed if the user's level of access is admin, he/she can click the edit about button below to edit what was written in the about and also upload a new logo for the software.



16.0 Help

The help button is where you can see the frequently asked questions (FAQs) about the software. if the user's level of access is admin, he/she can add and edit questions by clicking the buttons below.

