

Provision Store Management System

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Project Link: <https://github.com/vashz151/Provision-Stores-Management-System>

SCOPE

The purpose of the whole project is to create a system for an organization that will manage their sales and inventory records. The scope of the project is to give a simple and attractive application to simplify the work of administrators and employees of the organization. This project is affiliated to a provision store. It will maintain store's sales and inventory's record. It will enable store's administrators and employees/user to maintain their record more efficiently and easily.

IMPLEMENTATION

Project's GUI is implemented using **Python** module Tkinter which has a **Database** at backend to maintain all records of the store. Project is implemented by using OOP Paradigm.

Database is implemented by a Python module Sqlite3. It is a SQL based database.

This project has two different account types, for store's administrator and for store's employee. Both accounts have different options according to their accessibility.

DATA BASE DESIGN

➤ Login:- Login table is for keeping username, passwords and account type of users. Login table has three attributes -:

- Username (**Primary key**)
- Password (**Not Null**)
- Account type (**Not Null**)

Password and Account Type are mandatory fields.

➤ Products:- Product table is for keeping details of products in the store. Product table has 6 attributes:-

- Product id (**Primary key**)
- Product name (**Not Null**)
- Description
- Category
- Price (**Not Null**)
- Stock (**Not Null**)

Product Name, Price and Stock are mandatory fields.

➤ Sales:- Sales table is for keeping transaction records of the store. This table has 6 attributes:-

- Transaction id (**Primary key**)
- Invoice no. (**Not Null**)
- Product id (**Foreign key**)
- Quantity (**Not Null**)
- Date
- Time

Invoice no. and Quantity are mandatory fields.

Here Transaction no. is for transaction of product and Invoice no. is bill number.



RUN PROGRAM

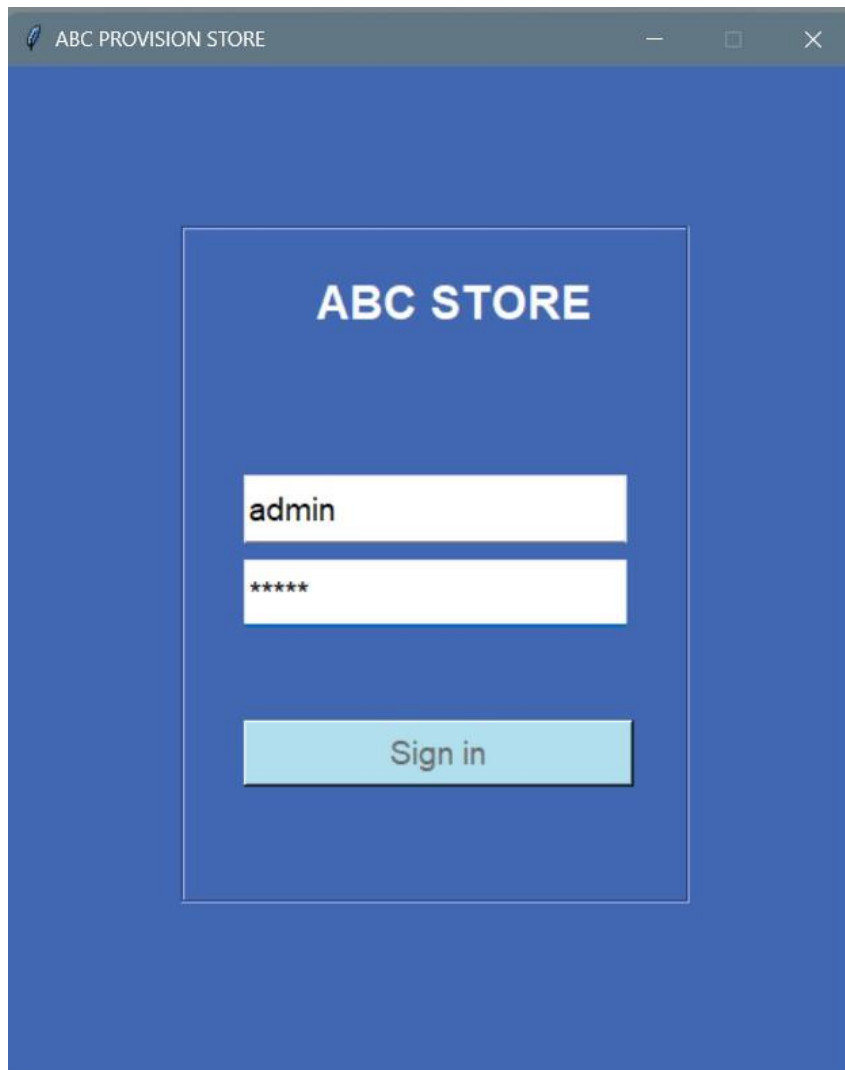
To run Program, you have to run main.py on shell.

LOGIN SCREEN

From this screen you can login in as store's administrator or store's user/employee.

There are two different account types-:

- Admin:- This account is for store's administrators. Through this account you have rights to see every detail of the store. You can add or remove products, edit product details, check how sale is going in store, add or remove users, change their passwords and account types etc.
- User:- This a Limited access account. This account is for employees of the store. Through this account you can sell products, make transaction, can see current products in store etc.

The image shows a web browser window titled "ABC PROVISION STORE". The main content area has a solid blue background. In the center, there is a white rectangular box containing the text "ABC STORE" in bold. Below this, there are two white input fields: the first contains the text "admin" and the second contains six asterisks "*****". Below the input fields is a light blue button with the text "Sign in".

To login in Admin type account-:

Username-> admin

Password-> admin

To login in User type account-:

Username-> vashisth

Password-> vash

Username and Password are not case sensitive.

You can either click sign in button or press Enter to login.

ADMIN ACCOUNT

- Inventory:- An inventory window opens up. Through this window you can edit product details or add stock to the product or remove product that are out of stock. You can search in this table by product description.

Product ID	Product Name	Description	Category	Price	Stocks
100020	BROWNIES	BROWNIES	BREAD	50	13
100010	Lays	Lays Spicy Blue	SNACKS	10	40
100011	Milano	Parle Milano Cookies	SNACKS	30	40
100031	Sprite	Sprite Cola	BEVERAGES	40	20
100041	NesCafe	NesCafe Gold	DAIRY	20	29
100042	CHEESE	AMUL CHEESE	DAIRY	100	47
100032	Mountain Dew	Mountain Dew	BEVERAGES	50	19
100043	MAYONAISE	MAYONAISE GREEN	DAIRY	45	45
100045	Butter	Amul Butter	DAIRY	100	13
100012	Doritos	Doritos Nachos	SNACKS	20	16
100013	Maggi	Maggi Masala	SNACKS	25	30
100014	Kurkure	Kurkure Green	SNACKS	10	20
100021	WIBS	WIBS Brown Bread	BREAD	50	15
100022	MUFFINS	MUFFINS VANILLA	BREAD	15	25
100040	Butter Milk	Amul Butter Milk	DAIRY	15	35
100023	FRUIT CAKE	FRUIT CAKE MIXED	BREAD	40	29
100024	BUNS	BUNS	BREAD	40	35
100051	Cadbury	Cadbury Dairy Milk	CHOCOLATES	5	200

You can select any row of the table the entry boxed will fill automatically.

To update product detail just press update button. Table is dynamic in nature it will get automatically updated.

Inventory

XYZ Provision Store's Sales & Inventory System

Admin

Items

Inventory

Sales

Profiles

Sign out

Quit

Search Description

Reset

Product Name

CHEESE

Description

AMUL CHEESE

Category

DAIRY

Price

100

Current Stock

46

Add Stock

4

Update

Remove

Product ID	Product Name	Description	Category	Price	Stocks
100030	PEPSI	PEPSI COKE	BEVERAGES	40	20
100020	BROWNIES	BROWNIES	BREAD	50	13
100010	Lays	Lays Spicy Blue	SNACKS	10	40
100011	Milano	Parle Milano Cookies	SNACKS	30	40
100031	Sprite	Sprite Cola	BEVERAGES	40	20
100041	NesCafe	NesCafe Gold	DAIRY	20	29
100042	CHEESE	AMUL CHEESE	DAIRY	100	46
100032	Mountain Dew	Mountain Dew	BEVERAGES	50	19
100043	MAYONAISE	MAYONAISE GREEN	DAIRY	45	45
100045	Butter	Amul Butter	DAIRY	100	13
100012	Doritos	Doritos Nachos	SNACKS	20	16
100013	Maggi	Maggi Masala	SNACKS	25	30
100014	Kurkure	Kurkure Green	SNACKS	10	20
100021	WIBS	WIBS Brown Bread	BREAD	50	15
100022	MUFFINS	MUFFINS VANILLA	BREAD	15	25
100040	Butter Milk	Amul Butter Milk	DAIRY	15	35
100023	FRUIT CAKE	FRUIT CAKE MIXED	BREAD	40	29
100024	BUNS	BUNS	BREAD	40	35

You can search Product by Description. Search Box is a suggestion box it will automatically provide suggestions to the user.

Inventory

XYZ Provision Store's Sales & Inventory System

Admin

Items

Inventory

Sales

Profiles

Sign out

Quit

Search Description

WIBS Brown Bread

Reset

Product Name

WIBS

Description

WIBS Brown Bread

Category

BREAD

Price

50

Current Stock

15

Add Stock

Update

Remove

Product ID	Product Name	Description	Category	Price	Stocks
100021	WIBS	WIBS Brown Bread	BREAD	50	15

To reset search option just press reset button.

To remove product just press remove button.

XYZ Provision Store's Sales & Inventory System

Admin

Items Inventory Sales Profiles Sign out Quit

Search Description Reset

Product Name

Description

Category

Price

Current Stock

Add Stock

Update Remove

Alert! Do you want to remove product from inventory?

Yes No

Product Id	Product Name	Description	Category	Price	Stocks
100024	BUNS	BUNS	CHOCOLATES	5	200
100091	Cadbury	Cadbury Dairy Milk	CHOCOLATES	5	200
100025	RUSK	MILK RUSK	BREAD	80	50
100052	DONUTS	CHOCOLATE DONUTS	CHOCOLATES	40	40
100050	Mentos	MENTOS LEMON	CHOCOLATES	5	100
100027	Pizza	Pizza Bread	BREAD	20	10
100033	Fizz	Appy Fizz	BEVERAGES	20	19
100044	Milk	Amul Milk	DAIRY	55	18
100015	LAYS	LAYS RED TOMATO	SNACKS	10	10
100017	JELLY	JELLY BEANS	CHOCOLATES	40	49
100056	TATA SALT	TALT SALT GREEN	BREAD	21	5

- **Items**:- You can add items to the inventory through items button. Here Product id should be in numbers. Product id and product description should be unique. Press **add item** button to add item to the store or **Back** button to go back to the inventory.

Here Category search box is a suggestion box it will fill automatically and will give suggestion to the user.

XYZ Provision Store's Sales & Inventory System

Admin

Items Inventory Sales Profiles Sign out Quit

Product Id

Product Name

Description

Category

Price

Stock

Add item Back

- Sales:- Through Sales button you can check the current sale progress in your store. You can transaction no., Invoice no. of store. You can Search any bill details by Invoice no. User can also check the date and time of the transaction.

The screenshot shows the 'Sales' section of the 'XYZ Provision Store's Sales & Inventory System'. The interface includes a navigation bar with icons for Items, Inventory, Sales, Profiles, Sign out, and Quit. Below the navigation bar, there is a search bar labeled 'Search Invoice No.' with a 'Reset' button. The main area displays a table of sales transactions.

Transaction ID	Invoice No.	Product ID	Description	Quantity	Total Price	Date	Time
101	1	100032	Mountain Dew	1	50	24 - 05 - 22	19:25:20
102	2	100033	Appy Fizz	1	20	30 - 05 - 22	19:33:57
103	2	100012	Doritos Nachos	1	20	30 - 05 - 22	19:34:1
104	2	100012	Doritos Nachos	1	20	30 - 05 - 22	19:34:7
105	2	100041	NesCafe Gold	1	20	30 - 05 - 22	19:34:10
106	3	100015	LAYS RED TOMATO	10	100	30 - 05 - 22	19:37:43
107	4	100044	Amul Milk	2	110	30 - 05 - 22	19:39:20
108	5	100042	AMUL CHEESE	1	100	31 - 05 - 22	11:46:55
109	6	100042	AMUL CHEESE	1	100	31 - 05 - 22	11:47:19
110	6	100020	BROWNIES	1	50	31 - 05 - 22	11:47:22
112	7	100042	AMUL CHEESE	1	100	31 - 05 - 22	11:48:14
113	8	100033	Appy Fizz	5	100	31 - 05 - 22	11:48:35
115	9	100045	Amul Butter	2	200	31 - 05 - 22	12:34:12
116	9	100017	JELLY BEANS	1	40	31 - 05 - 22	12:34:18
118	10	100056	TALT SALT GREEN	20	420	31 - 05 - 22	13:53:4

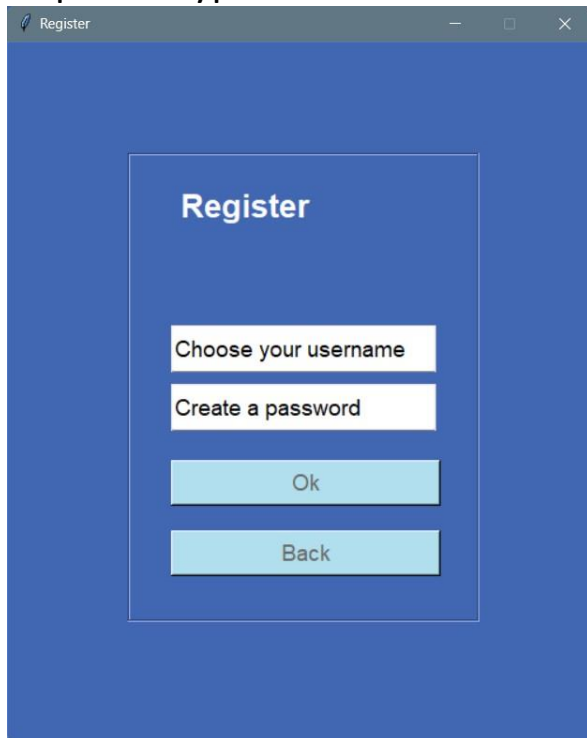
- Profiles:- To check Profiles currently in store's database user can click profile button. All entry boxes will fill automatically if you select any row of the table. You can edit or remove accounts from the data base. You can also edit passwords of the user profiles.

The screenshot shows the 'Profiles' section of the 'XYZ Provision Store's Sales & Inventory System'. The interface includes a navigation bar with icons for Items, Inventory, Sales, Profiles, Sign out, and Quit. Below the navigation bar, there is a search bar labeled 'Search Username' with a 'Reset' button. The main area displays a table of user profiles.

Username	Password	Account Type
ADMIN	ADMIN	ADMIN
VASHISTH	YASH	USER
YASH	YASH	USER
YASH	YASH	ADMIN
YASHB	YASH	ADMIN

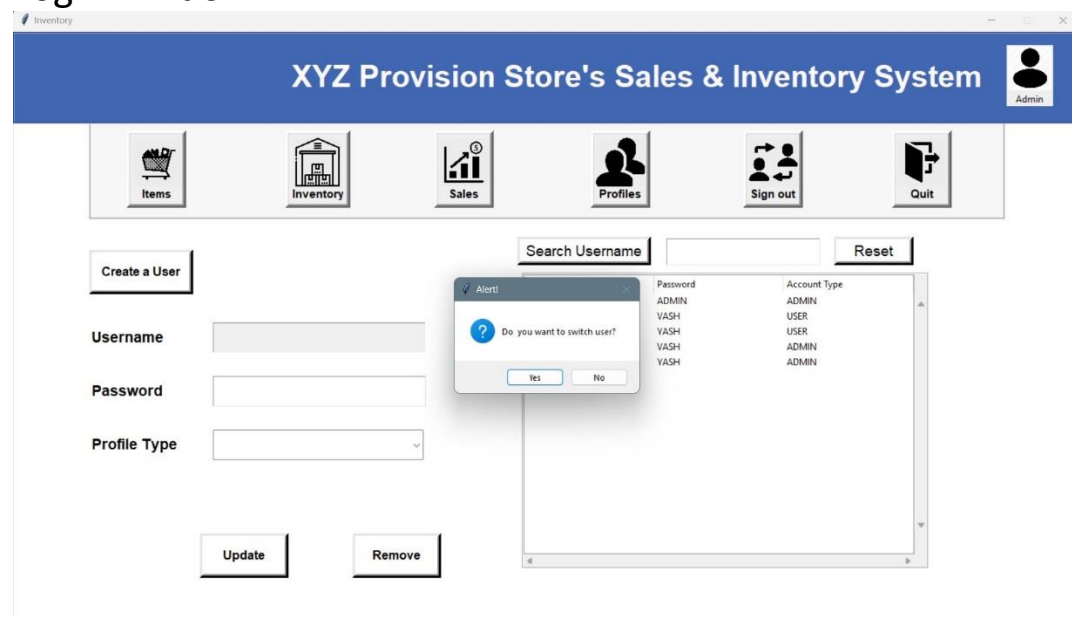
Below the table, there are buttons for 'Update' and 'Remove'. To the left of the table, there is a 'Create a User' section with input fields for 'Username', 'Password', and a dropdown for 'Profile Type'.

User can also create a new profile by clicking on create user button. A register user window will pop up. By default, it will create a User account. To make it Admin type you can edit its property through profile type combo box.



The image shows a 'Register' window with a blue background. It contains a white box with the title 'Register'. Inside this box, there are two text input fields: 'Choose your username' and 'Create a password'. Below these fields are two buttons: 'Ok' and 'Back'.

- Sign Out:- To sign out click sign out button. You will get back to Login window.

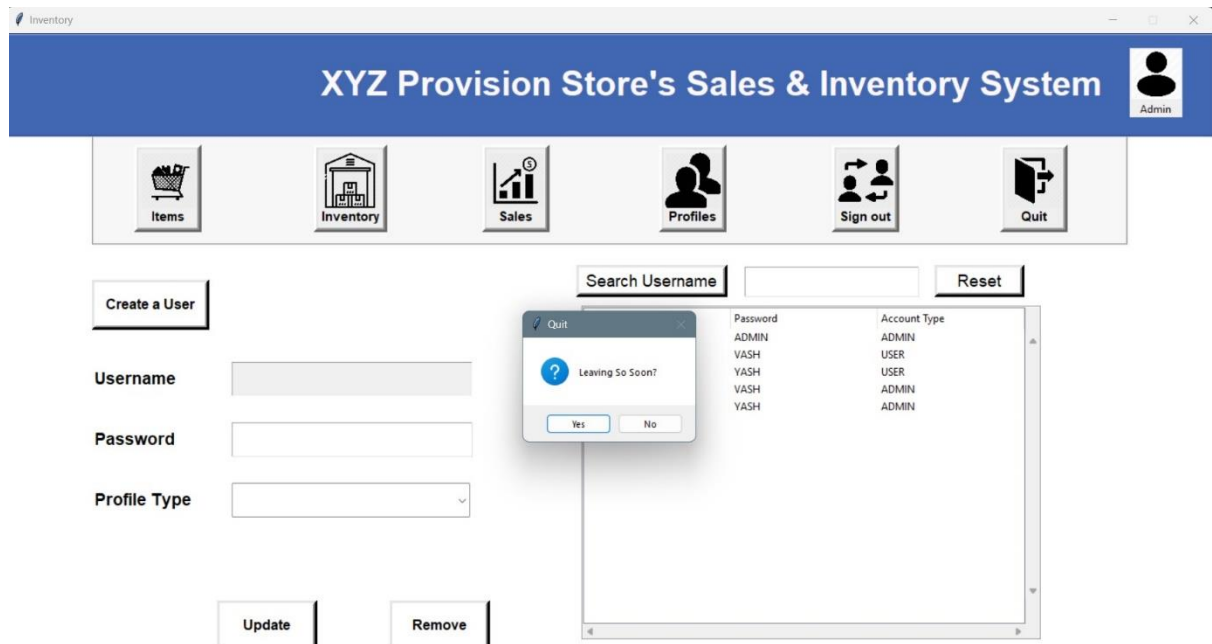


The image shows the main application window titled 'XYZ Provision Store's Sales & Inventory System'. The window has a blue header bar with the title and a user profile icon labeled 'Admin'. Below the header is a navigation bar with icons for 'Items', 'Inventory', 'Sales', 'Profiles', 'Sign out', and 'Quit'. The main content area has a 'Create a User' button on the left. To the right of this button is a 'Search Username' field with a 'Reset' button. Below the search field is a table with two columns: 'Password' and 'Account Type'. The table contains the following data:

Password	Account Type
ADMIN	ADMIN
YASH	USER
YASH	USER
YASH	ADMIN
YASH	ADMIN

Below the table are 'Update' and 'Remove' buttons. An 'Alert!' dialog box is open in the center of the window, asking 'Do you want to switch user?' with 'Yes' and 'No' buttons.

- Quit:- To quit Inventory user can press quit button to exit the Inventory or X button on the window.



USER ACCOUNT

This is a Limited access account. This account is for employees of the store. Through this account you can sell products, make transaction, can see current products in store etc.

- Invoice:- By clicking Invoice Button. You will enter to the transaction window. There is Invoice no. at top, this is bill no. by which you can fetch the bill details through Sales button in Admin type account.

After Invoice no. there is transaction table. It will get automatically filled when you enter a product for sale.

User can search Product by description or Product id in search box. This box will provide suggestions to the user. To make entry in Transaction table Press Add cart button. Automatically its product detail will get displayed. Here product details are not for edit it is a User type account.

The screenshot shows the 'XYZ Provision Store's Sales & Inventory System' interface. At the top, there's a blue header with the system name and a user profile icon labeled 'Vashisth'. Below the header, there are four icons: 'Invoice', 'Items', 'Sign out', and 'Quit'. The main area displays 'Invoice No. 12' with a table containing transaction details.

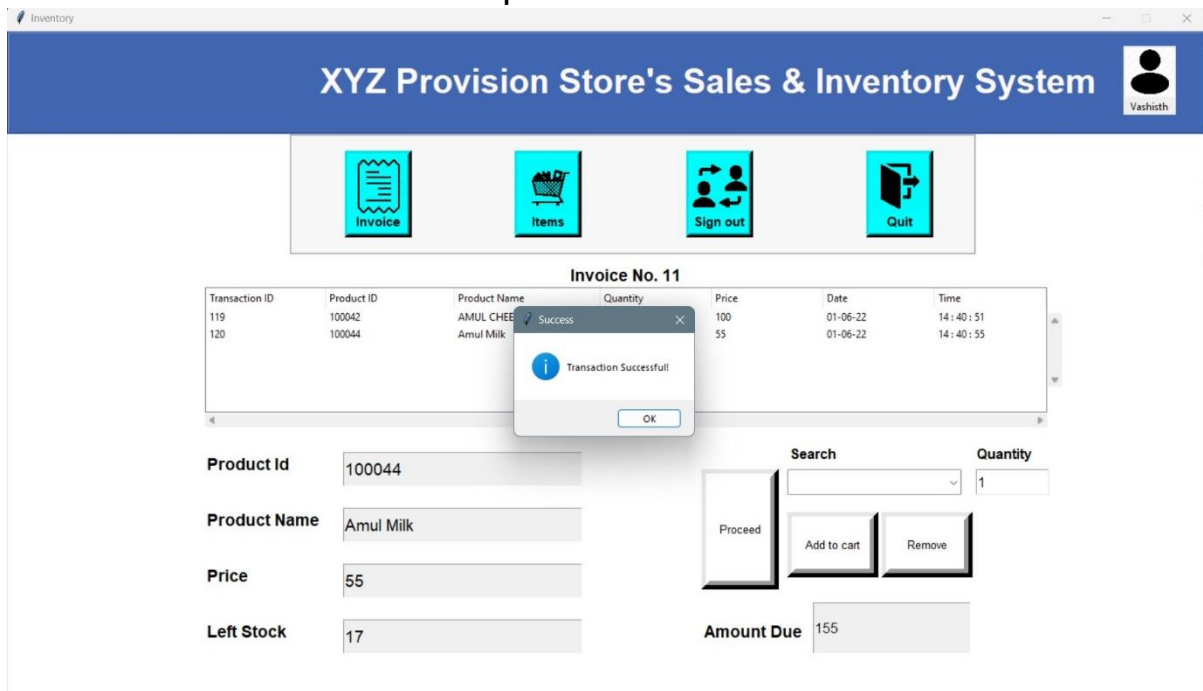
Transaction ID	Product ID	Product Name	Quantity	Price	Date	Time
121	100020	BROWNIES	1	50	01-06-22	14:46:45

Below the table, there are input fields for 'Product Id' (100020), 'Product Name' (BROWNIES), 'Price' (50), and 'Left Stock' (12). To the right, there's a 'Search' section with a dropdown menu showing 'Amul Butter' and a 'Quantity' field set to '1'. Below the search section are buttons for 'Proceed', 'Add to cart', and 'Remove'. At the bottom right, there's an 'Amount Due' field showing '50'.

You can remove any record from current transaction by clicking remove button.

This screenshot shows the same interface as the previous one, but with a 'Remove cart?' dialog box open in the center. The dialog box has a question mark icon and two buttons: 'Yes' and 'No'. The background interface remains the same, showing the 'Invoice No. 12' table and the search/transaction controls.

To make a Bill User can click proceed button.



➤ Items:- User can view Items in the store. The details are not for edit.



➤ Sign Out:- To sign out click sign out button. You will get back to Login window.

➤ Quit:- To quit Inventory user can press quit button to exit the Inventory or X button on the window.