
Software Manual

for

Shop Inventory Management System

Version 1.2

Prepared by

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Course: CS253
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Date: 28th April 2022

What does this software do?

This software is targeted toward small to medium retailers. The software helps create billing invoices and keep track of demand and quantity left in the storage. Apart from this, the software also forecasts future demand which helps it to recommend how to optimally use the capital to buy items in the upcoming season to maximize expected profit.

Who is the intended audience for this manual?

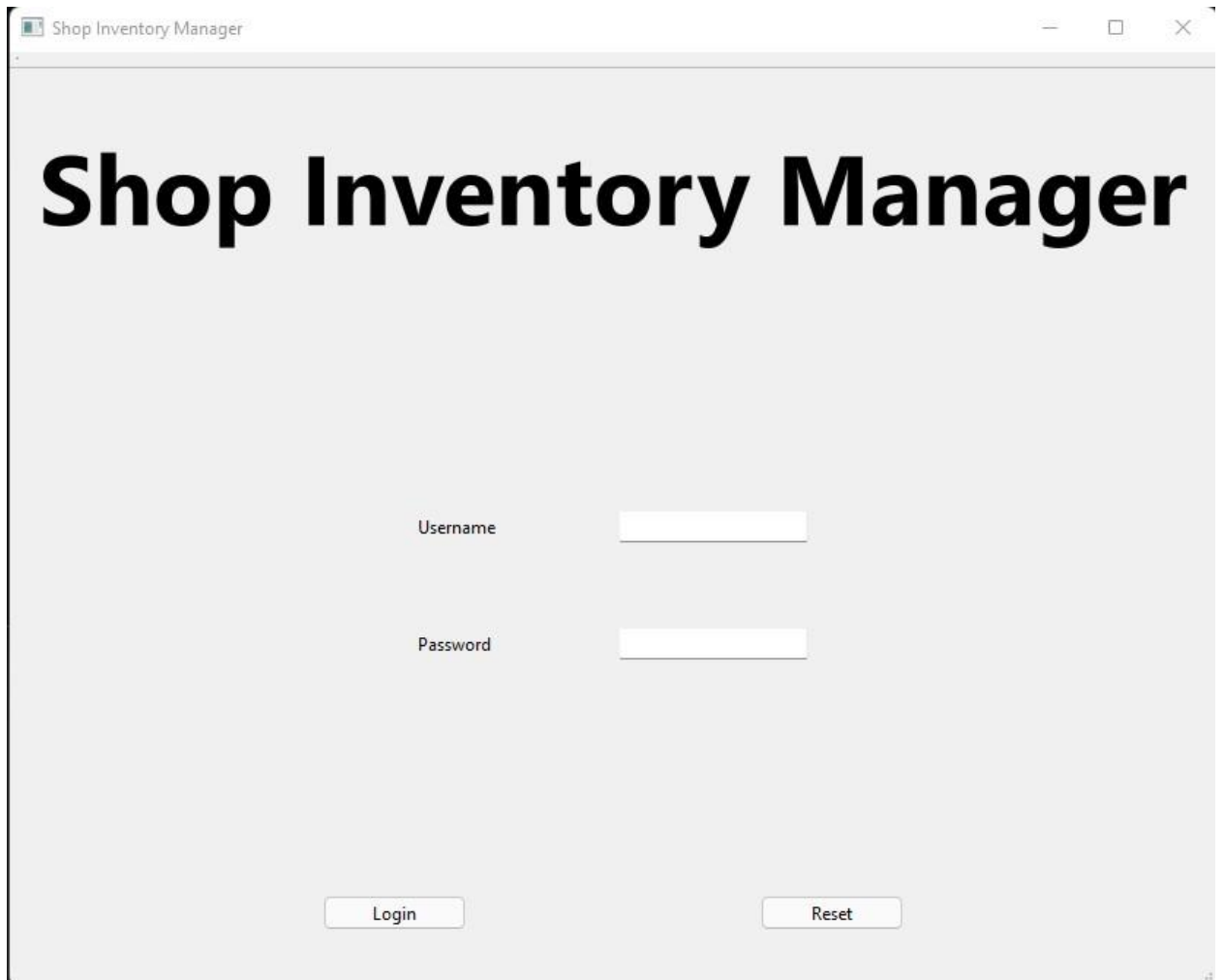
The software manual is intended for the retailers and does not assume much technical knowledge from them. This manual aims to be as self-sufficient as possible.

How to navigate this software manual?

There are sections for employees and the admin in the software manual.

FOR EMPLOYEES

1. Logging In



The screenshot shows a web application window titled "Shop Inventory Manager". The window has a light gray background. At the top, the title bar shows the window name and standard minimize, maximize, and close buttons. The main content area features the title "Shop Inventory Manager" in a large, bold, black font. Below the title, there are two input fields: "Username" and "Password". Each field is preceded by its respective label. At the bottom of the form, there are two buttons: "Login" and "Reset".

Shop Inventory Manager

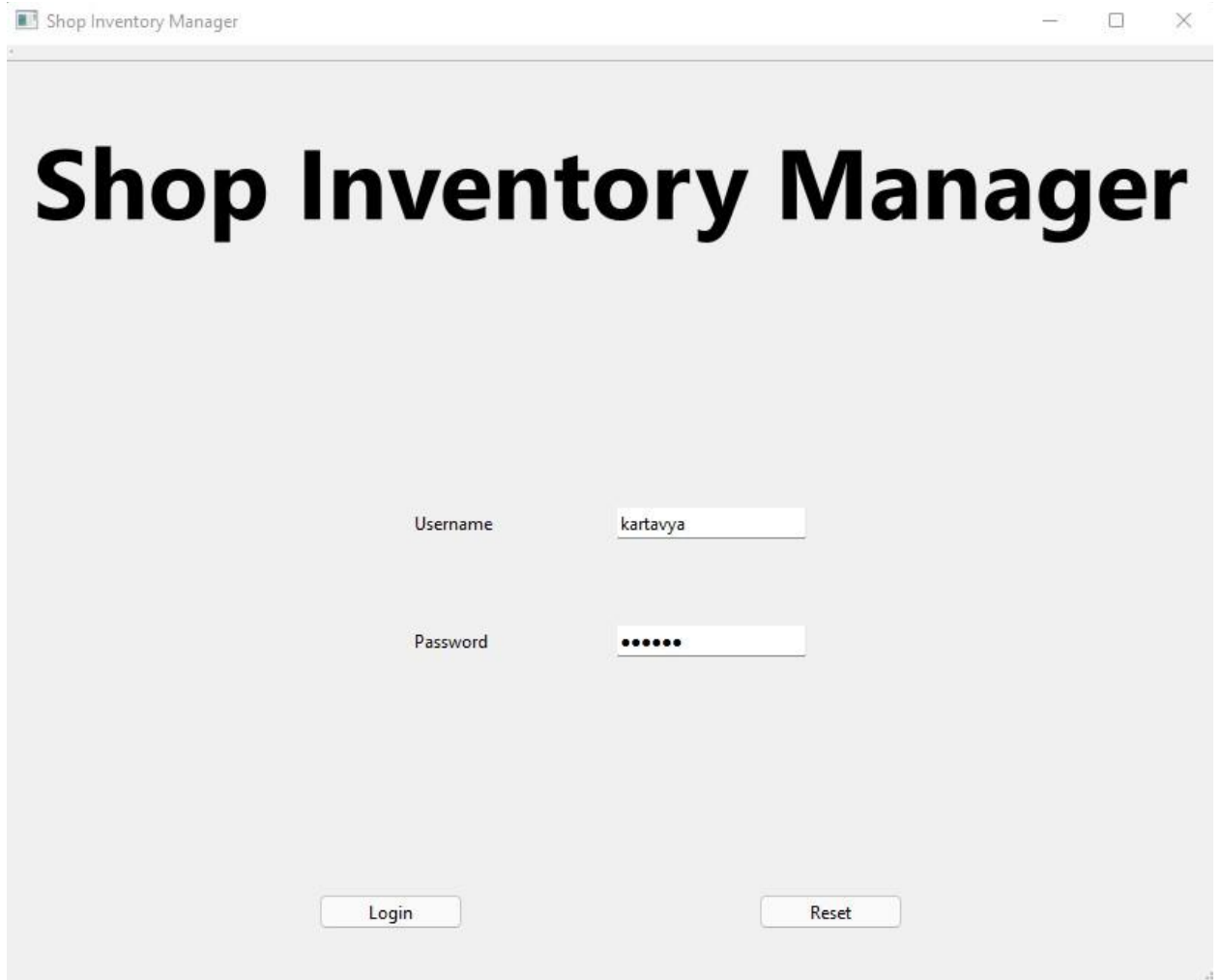
Shop Inventory Manager

Username

Password

Login Reset

Add username and password to the respective fields. If you wish to refresh the page, press the reset button.



The image shows a web browser window titled "Shop Inventory Manager". The main heading is "Shop Inventory Manager" in a large, bold, black font. Below the heading, there are two input fields. The first is labeled "Username" and contains the text "kartavya". The second is labeled "Password" and contains seven dots, indicating a masked password. At the bottom of the form, there are two buttons: "Login" on the left and "Reset" on the right.

Shop Inventory Manager

Shop Inventory Manager

Username

Password

After filling in your username and password, hit the "login" button.

Shop Inventory Manager

Bill Generator

Item ID	Item Name	Price	Quantity	Amount
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Item ID

Quantity

Total 0.000000

After logging in the following screen would appear.

2. Creating Invoice

The screenshot shows a web application window titled "Shop Inventory Manager". Inside, there is a section titled "Bill Generator". Below this title is a table with the following data:

	Item ID	Item Name	Price	Quantity	Amount
1	64	coca-cola	20.000000	5	100.000000

Below the table, there are input fields for "Item ID" (containing "64") and "Quantity" (containing "2"). To the right of these fields is a "Total" label with the value "100.000000". Below the "Total" label are two buttons: "Add" and "Delete". At the bottom of the form are three buttons: "Cancel", "Generate", and "Log Out".

To add items to the invoice enter the Item ID and the quantity bought. Make sure that item ID is numeric and quantity is a positive integer. Press Add button to update the invoice. You should be able to see a column added to the table as shown above with the same item ID and quantity along with new fields namely Item Name, Price per quantity, and total amount.

If you wish to increase the quantity bought after already updating the table, simply again fill in the Item ID and the number of quantities to be increased and press Add. **Note that the software will not allow you to add more items if the stock of a particular item isn't enough to allow it.**

Shop Inventory Manager

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Bill Generator

	Item ID	Item Name	Price	Quantity	Amount
1	64	coca-cola	20.000000	5	100.000000

Item ID

64

Quantity

2

Total

100.000000

Add

Delete

Cancel

Generate

Log Out

To delete the quantities bought simply fill in the Item ID and the stocks to be deleted and then press the Delete Button. In the above illustration suppose we wanted to delete 2 quantities of item 64, then we will fill the boxes as shown above.

After hitting the delete button your screen will look like this. Notice that the quantity has now decreased to 3. If you delete all 5, this entire row will get deleted.

The screenshot shows a web application window titled "Shop Inventory Manager". Inside, there is a section titled "Bill Generator". Below this title is a table with the following data:

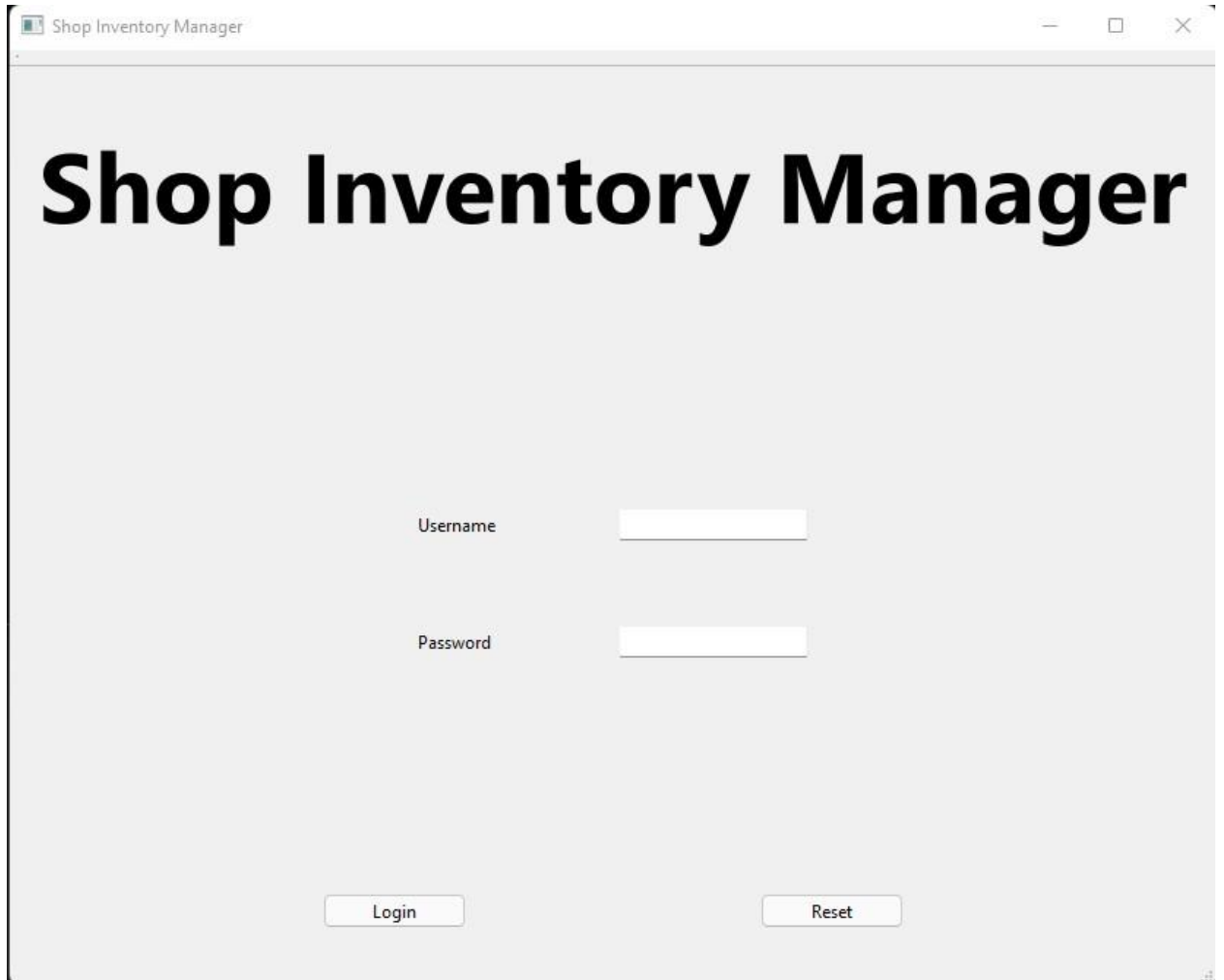
	Item ID	Item Name	Price	Quantity	Amount
1	64	coca-cola	20.000000	3	60.000000

Below the table, there are input fields for "Item ID" and "Quantity", and a "Total" label with the value "60.000000". There are also buttons for "Add", "Delete", "Cancel", "Generate", and "Log Out".

The total amount that the customer has to pay is mentioned next to "Total". Click on Generate when the billing is over and the customer is ready to pay.

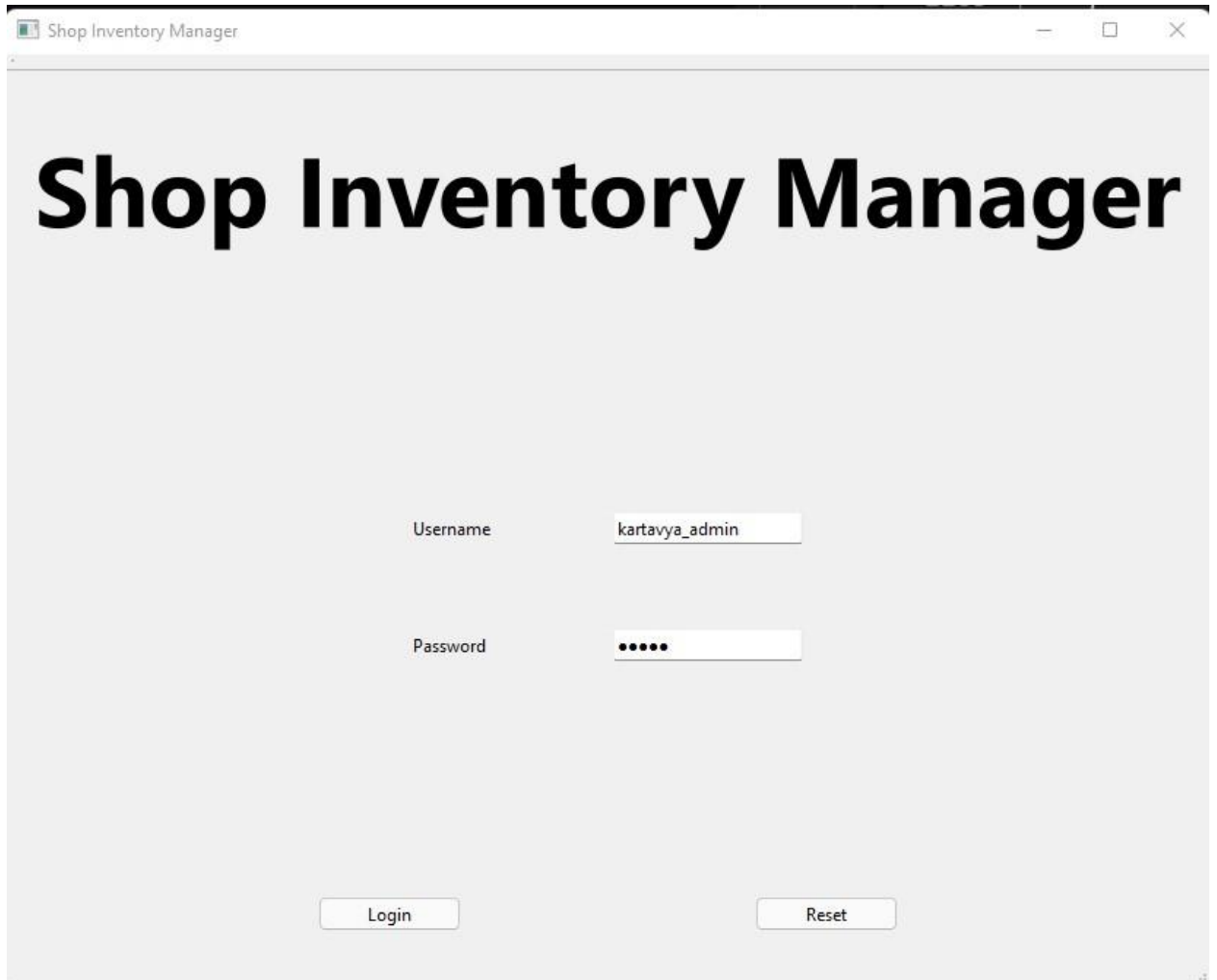
FOR ADMIN

1. Logging In

A screenshot of a web application window titled "Shop Inventory Manager". The window has a light gray background. At the top, the title bar shows the application name and standard window controls (minimize, maximize, close). Below the title bar, the text "Shop Inventory Manager" is displayed in a large, bold, black font. In the center of the window, there are two input fields. The first field is labeled "Username" and the second field is labeled "Password". Both fields are empty. Below the input fields, there are two buttons: "Login" on the left and "Reset" on the right. The buttons are rectangular with rounded corners and a light gray background.

Fill in your username and password as in the correct boxes and press Login if you wish to login. If you wish to refresh the page press Reset.

When logging in for the first time, the admin username = 'admin' and password = "pass" (without the double quotes). It is recommended that you immediately change the password after logging in for the first time. See *Adding / Updating Employee Information* section for more information on how to do this.



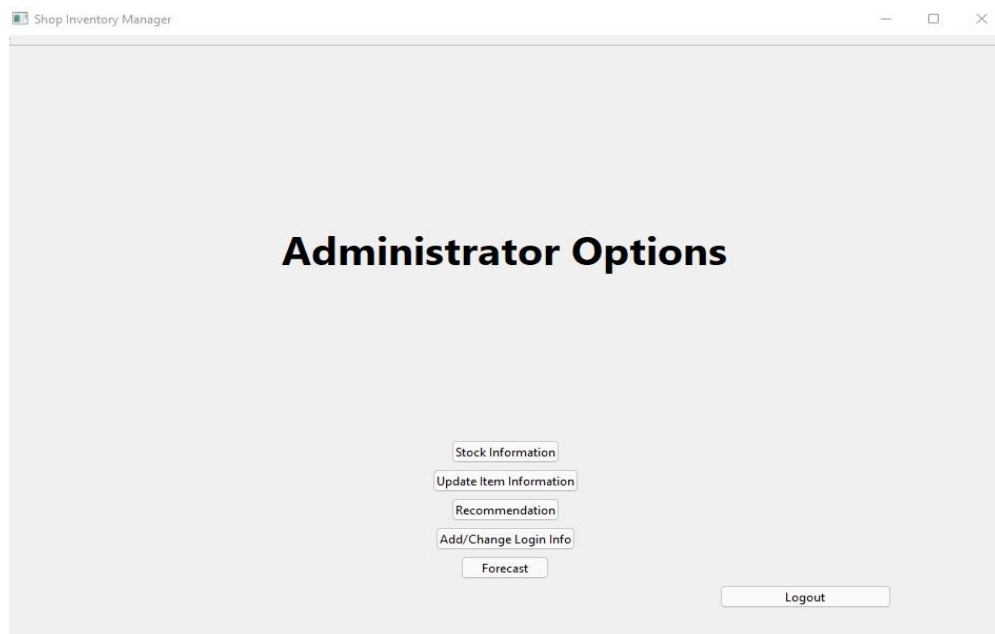
Shop Inventory Manager

Shop Inventory Manager

Username:

Password:

Now, hit the login button and the admin portal will look like the following image.

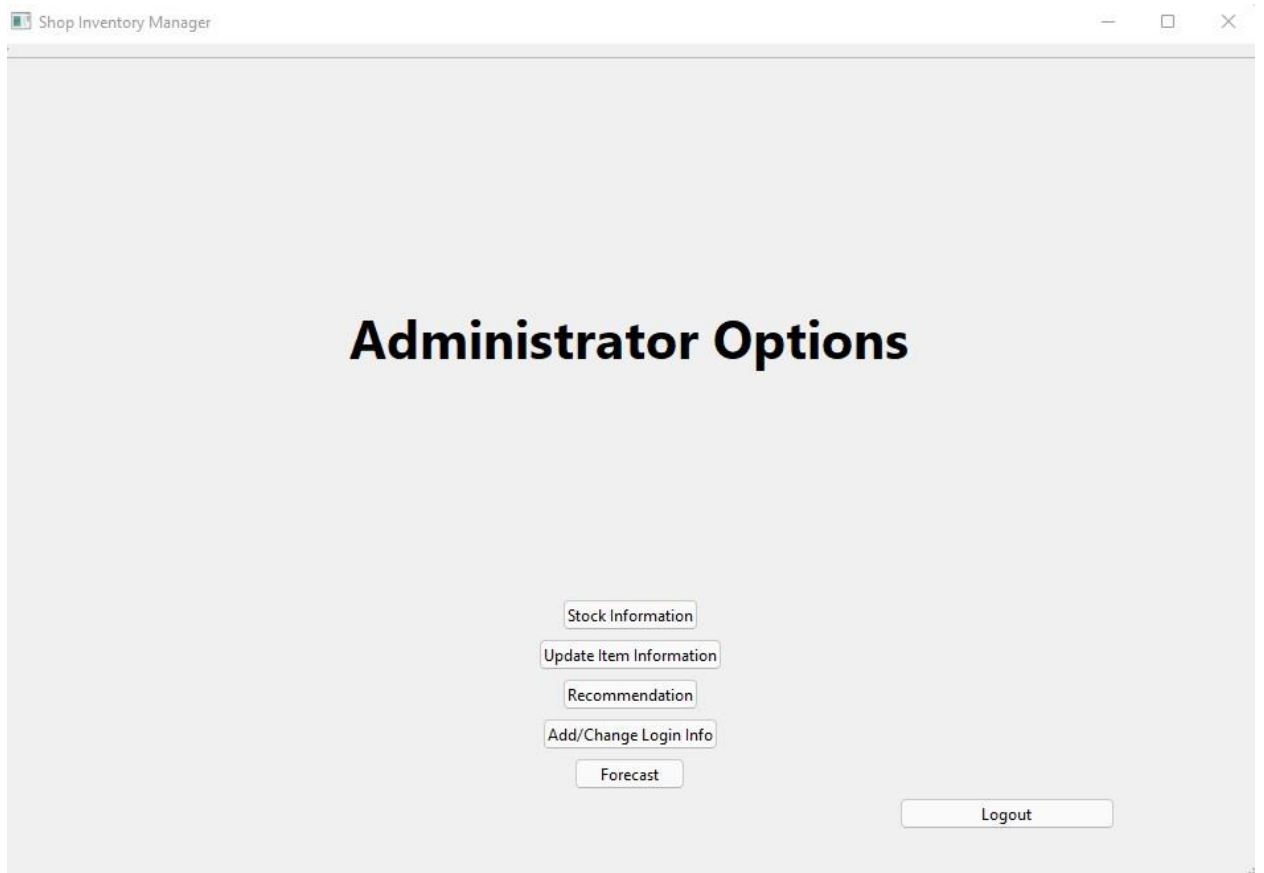


Shop Inventory Manager

Administrator Options

2. Updating Item Information

(Diagrams have changed)



For updating and adding items you have to click on the “update item information” button.

The following screen will pop after clicking the “update item information” button. Then you have to fill in all the information needed on that screen.

Item Information Update

Item ID	<input type="text" value="64"/>
Item Name	<input type="text" value="Coca Cola"/>
Buying Price	<input type="text" value="15"/>
Selling Price	<input type="text" value="20"/>
Holding Price	<input type="text" value="5"/>
Stock Changes	<input type="text" value="50"/>

After filling in all the required information you have to click on the “add new item” button. This will add a new item to your database. Make sure that Buying Price, Selling Price, Holding Price, and Stock changes are numeric

Item Information Update

Item ID	<input type="text" value="64"/>
Item Name	<input type="text"/>
Buying Price	<input type="text"/>
Selling Price	<input type="text"/>
Holding Price	<input type="text"/>
Stock Changes	<input type="text" value="50"/>

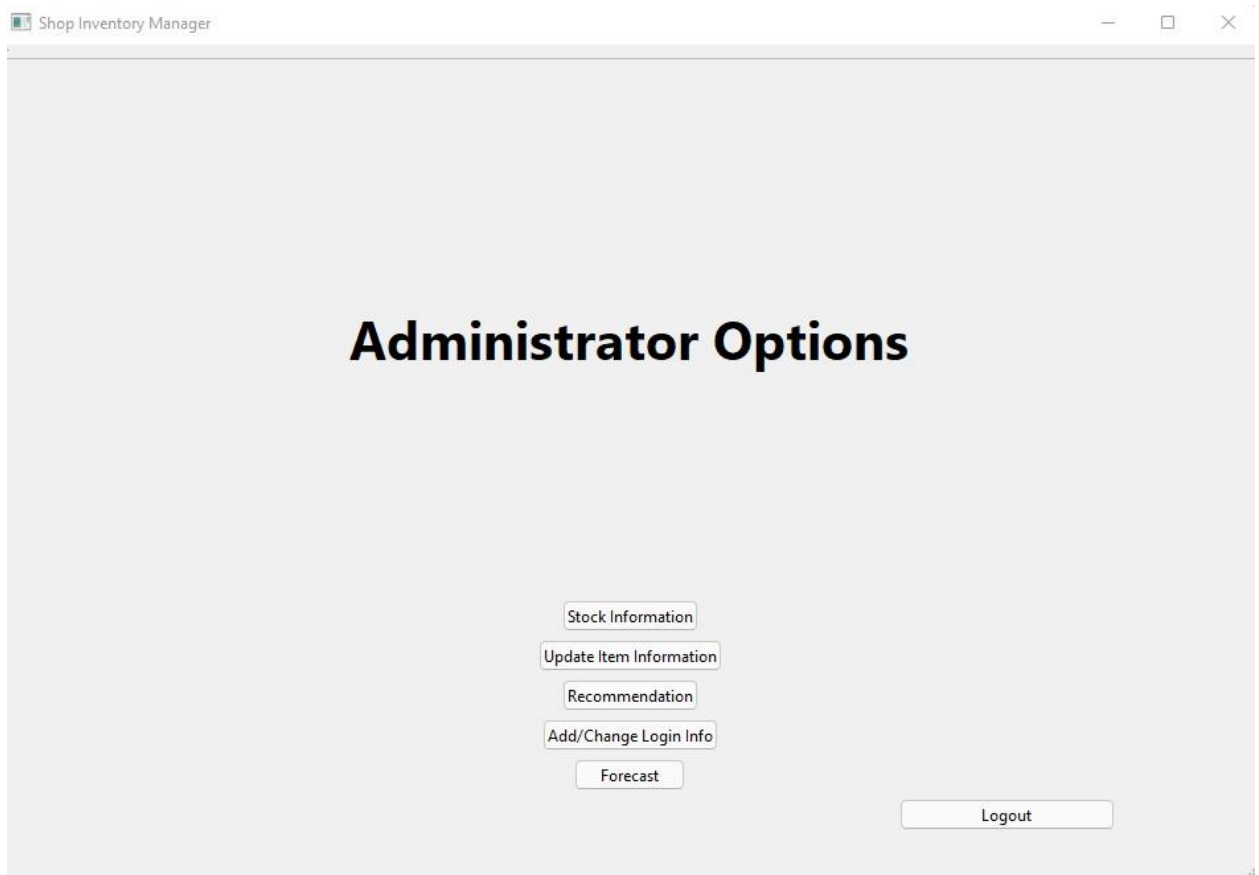
To update the stock of a particular item, enter the Item ID and the Stock Changes, then click update. The software takes positive as well as negative values.

Item Information Update

Item ID	<input type="text" value="64"/>
Item Name	<input type="text"/>
Buying Price	<input type="text"/>
Selling Price	<input type="text"/>
Holding Price	<input type="text"/>
Stock Changes	<input type="text"/>

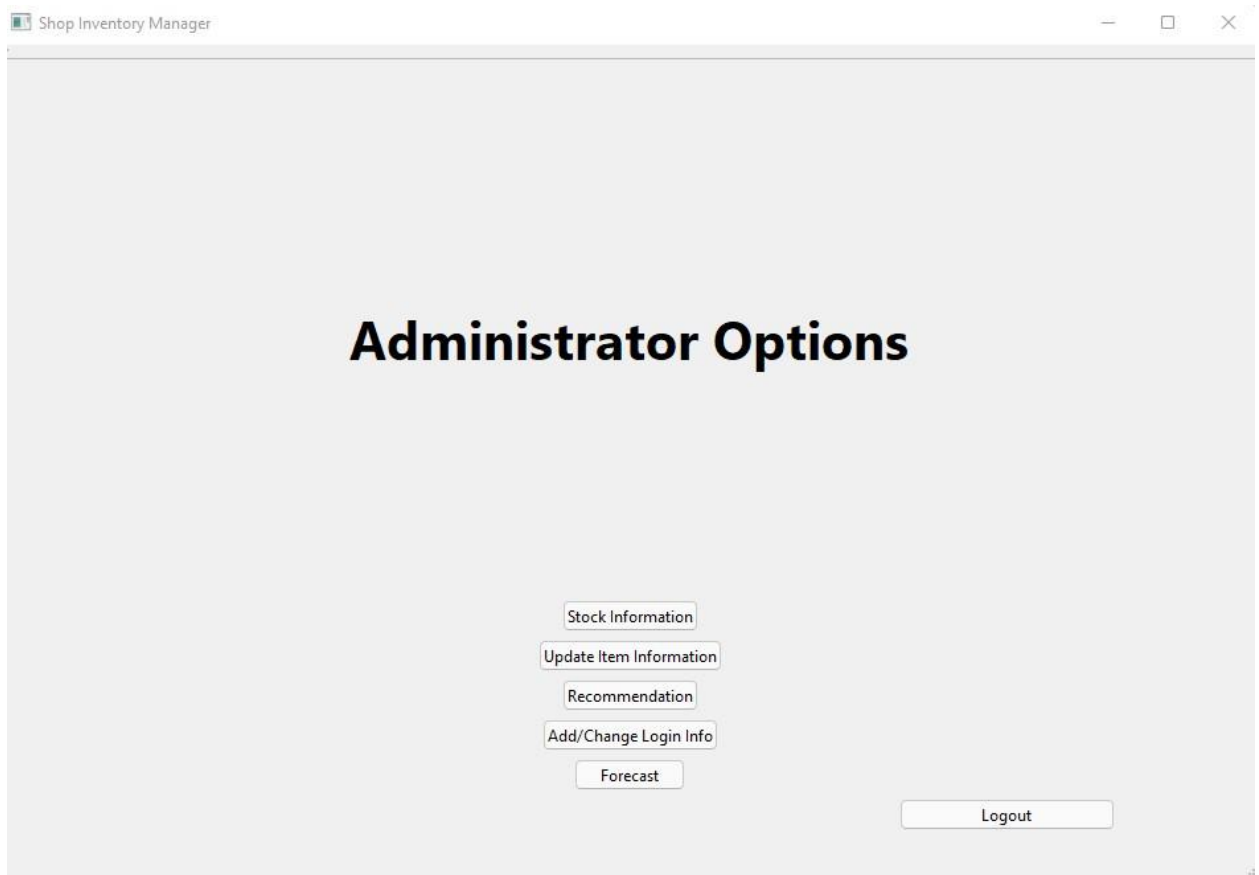
To delete a particular item from the database (not just the stock, but the entire item), put in the Item ID of the item and click on Delete. Note that this action is irreversible.

3. Checking Stock Info



For checking the stock information you have to click on the “stock information” button.

4. Forecasting



Please click the forecast button once, when the shop opens for the day. This updates the demand information, so that you get optimal restocking suggestions (for more info on the restocking suggestion, see the next section)..

5. Getting Restocking Suggestions

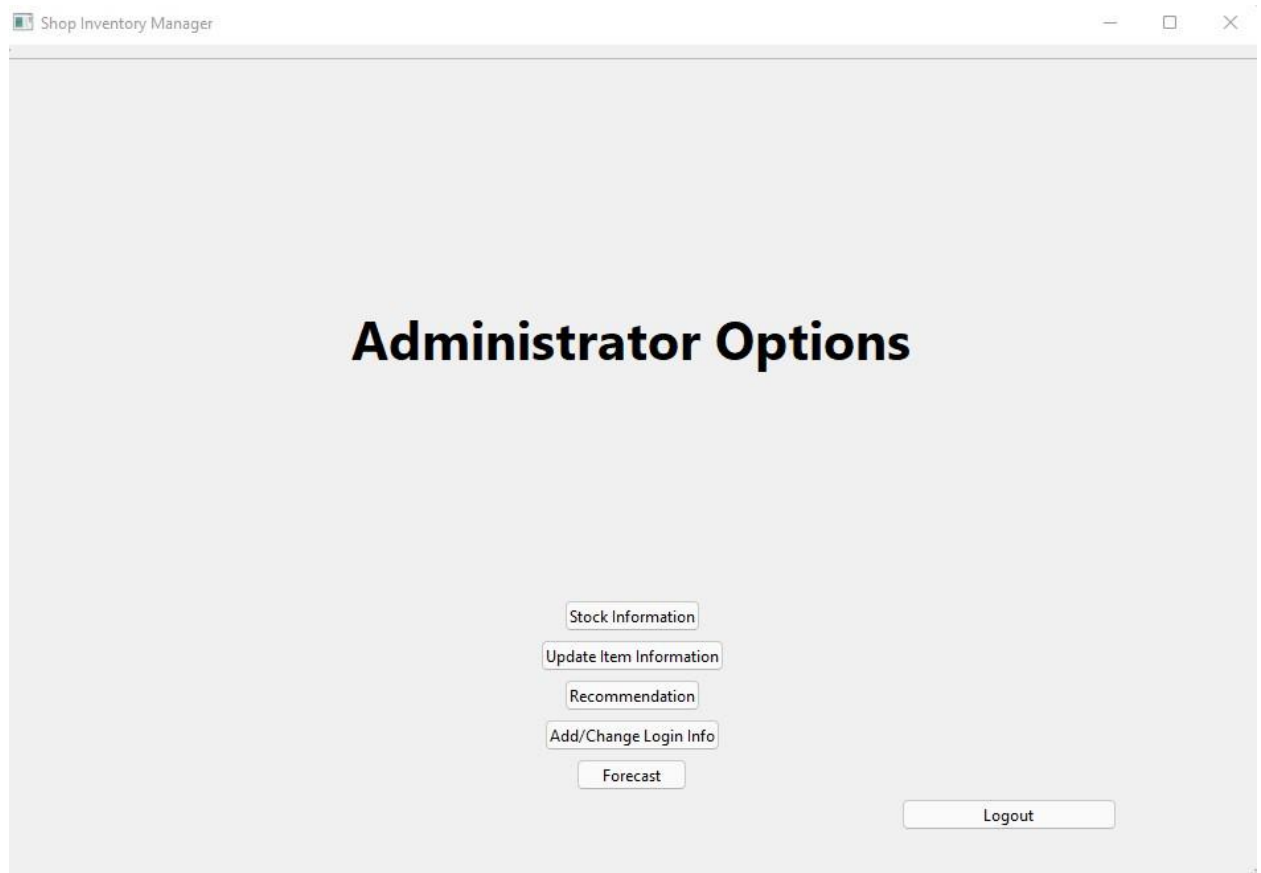
Restocking Suggestion

Available Capital

Item ID	Item Name	Restock Amount
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Put the capital that you want to use to buy stocks, in the Available Capital text field. Click on the get suggestion button to get suggestions from the software. It will suggest what stock you should buy, of each item. This suggestion is made on the basis of previous demand.

6. Adding / Updating Employee Information



For adding/ updating employee information you have to click on the “Add/Change Login Info” button.

Shop Inventory Manager

Add/Change Employees

Employee Name

Employee Username

Employee Password

You will be redirected to this page after that.

Shop Inventory Manager

Add/Change Employees

Employee Name

Employee Username

Employee Password

Fill in all the information for the employee you want to add or change. There are 4 buttons, and they all perform different tasks:

- 1) Add New Employee As Admin: This button will add these credentials as an admin employee, in the database. So, when a person logs in with these credentials, he will be directed to the admin page.
- 2) Add New Employee: This button will add these credentials as a regular employee. So when an employee logs in with these credentials, he will be directed to the invoice generator page.
- 3) Change Employee Credentials: This will change the password and the name of the Employee whose username you entered in the "Employee Username" field, to the ones mentioned in the "Employee Name" and "Employee Password" field respectively.
- 4) Delete Employee: This will delete the employee whose username is specified in the Employee Name field, and that employee will no longer be able to log in. In order to avoid bricking the software, the software will not update or delete the employee whose username is admin, even if you request it. This is the name of the employee created when the software is first used, and ideally should be accessible only to the

owner/highest level administrator (feel free to change the password and name to something else!)

System Requirements

Windows Operating system is required. This software runs smoothly on Windows 10 and Windows 11, but older versions should work too (we don't guarantee this though).

Qt and or-tools are required as of now, however, we are trying to remove the dependencies on these two libraries.

<Last line removed>