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|  | National University  of Computer and Emerging Sciences  Chiniot-Faisalabad Campus |  |

**Database Lab**

**Final Project**

**Spring 2023**

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**Murad Hameed**

**Submitted To**

“Ms. Saba Naseem”

# Schema

CREATE TABLE users (

id INT PRIMARY KEY IDENTITY(1,1),

fullname VARCHAR(255) NOT NULL,

email VARCHAR(255) NOT NULL UNIQUE,

role VARCHAR(100),

password VARCHAR(255) NOT NULL,

image VARCHAR(255),

is\_deleted BIT DEFAULT 0

);

CREATE TABLE products (

id INT PRIMARY KEY IDENTITY(1,1),

name VARCHAR(255) NOT NULL,

category VARCHAR(255) NOT NULL,

price DECIMAL(10,2) NOT NULL,

is\_available BIT DEFAULT 1,

image VARCHAR(255) NULL,

is\_deleted BIT DEFAULT 0

);

CREATE TABLE transactions (

id INT PRIMARY KEY IDENTITY(1,1),

user\_id INT NOT NULL,

cash DECIMAL(10,2) NOT NULL,

date\_created DATETIME DEFAULT GETDATE() NOT NULL,

FOREIGN KEY (user\_id) REFERENCES users(id)

);

CREATE TABLE logs (

id INT PRIMARY KEY IDENTITY(1,1),

user\_id INT NOT NULL,

activity VARCHAR(255) NOT NULL,

date\_created DATETIME DEFAULT GETDATE(),

FOREIGN KEY (user\_id) REFERENCES users(id)

);

CREATE TABLE orders (

id INT PRIMARY KEY IDENTITY(1,1),

product\_id INT NOT NULL,

transaction\_id INT NOT NULL,

quantity INT NOT NULL,

price DECIMAL(10,2) NOT NULL,

FOREIGN KEY (product\_id) REFERENCES products(id),

FOREIGN KEY (transaction\_id) REFERENCES transactions(id)

);

CREATE VIEW OrderTotal AS

SELECT transaction\_id, SUM(price\*quantity) AS total, Sum(quantity) AS orders

FROM orders

GROUP BY transaction\_id;

CREATE VIEW TransactionsView AS

SELECT transactions.\*, OrderTotal.total, OrderTotal.orders

FROM transactions INNER JOIN OrderTotal ON transactions.id=OrderTotal.transaction\_id;

CREATE VIEW SalesView AS

SELECT

Sum(TransactionsView.total) AS Sale,

CAST(TransactionsView.date\_created AS DATE) AS day,

Sum(TransactionsView.orders) AS total\_order,

Count(TransactionsView.id) AS total\_customer

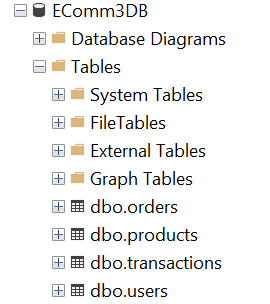
FROM

TransactionsView

GROUP BY

CAST(TransactionsView.date\_created AS DATE);

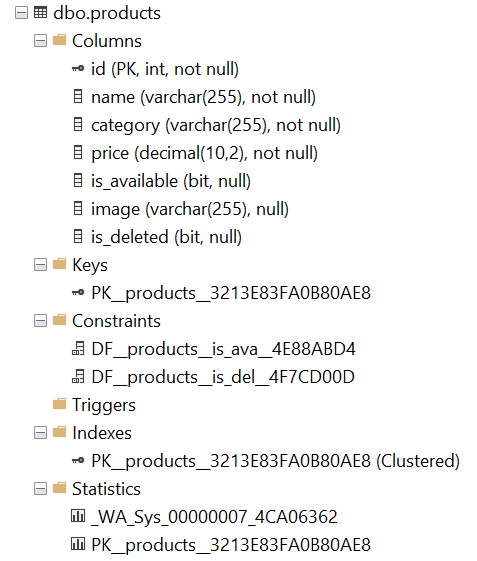
# All Tables



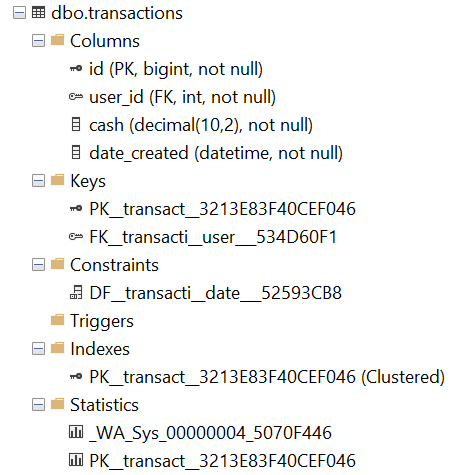
# Orders Table

# 

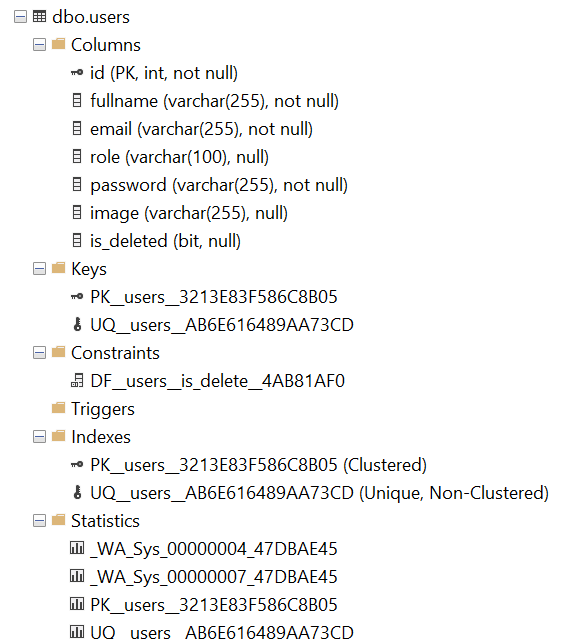
# Products Table



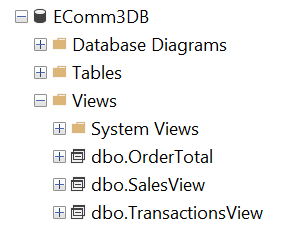
# Transactions Table



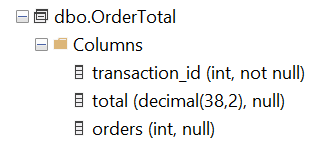
# Users Table



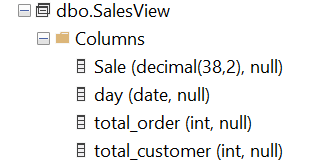
# All Views



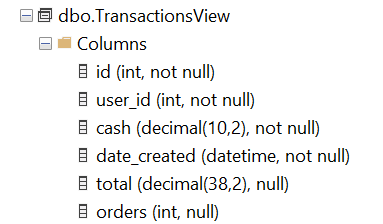
# OrderTotal



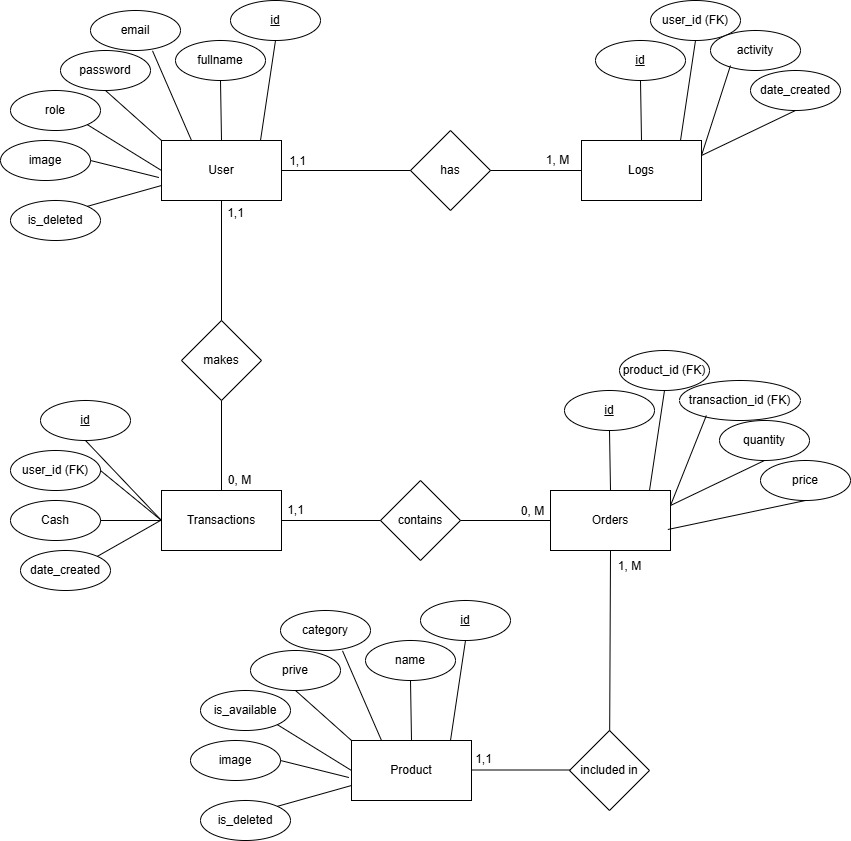
# SalesView



# TransactionsView



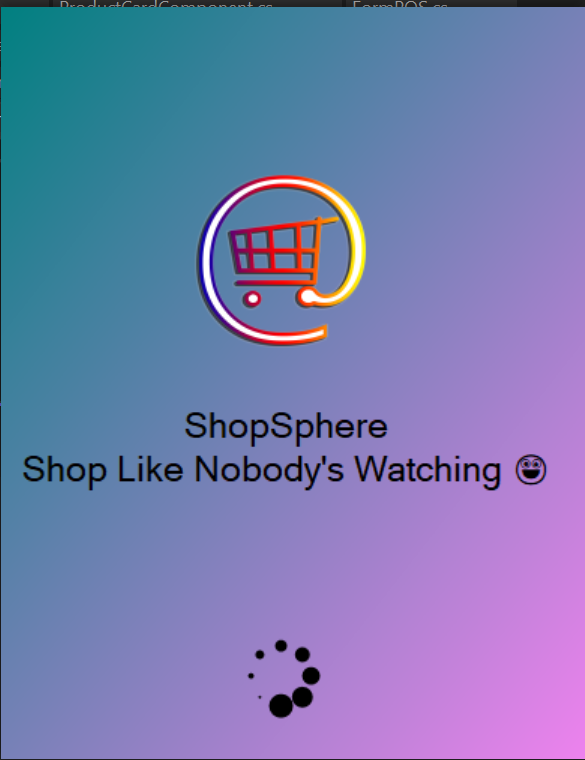
# Schema Diagram



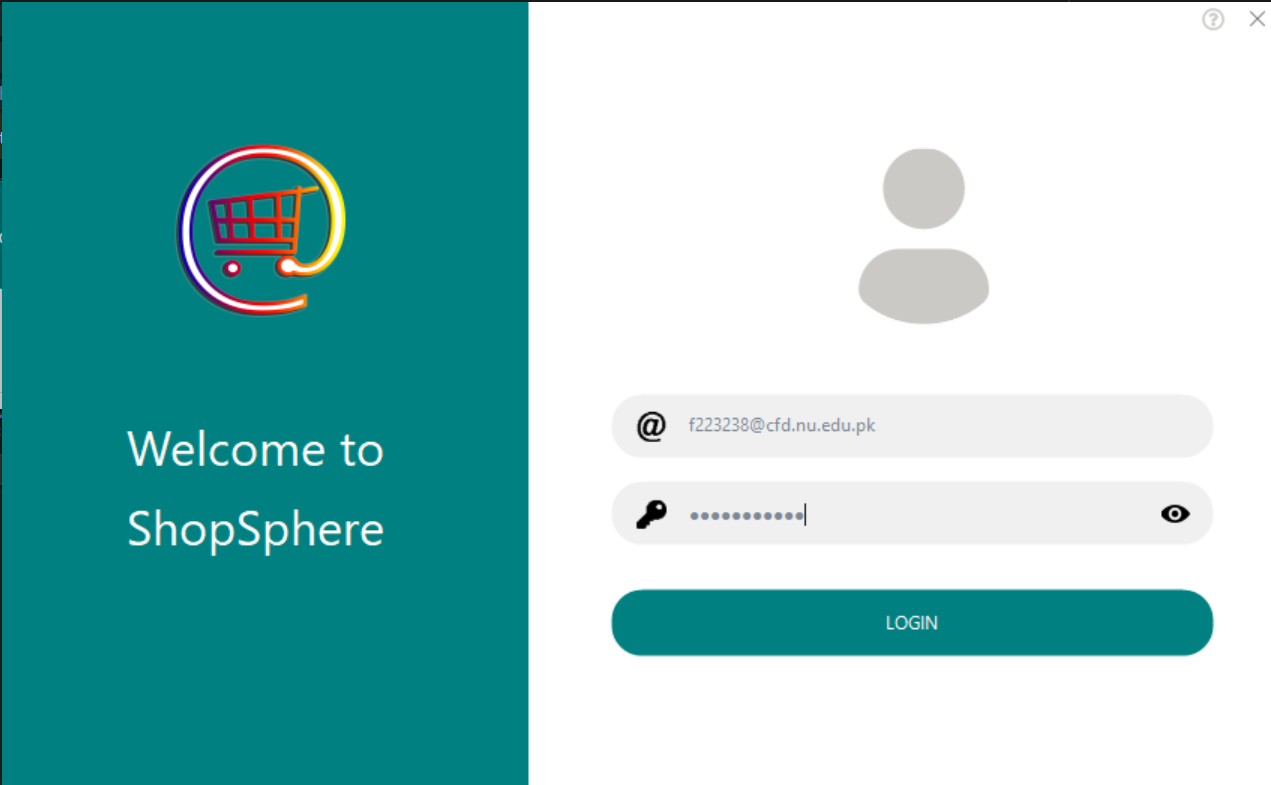
# Application Demo

# Role as Admin

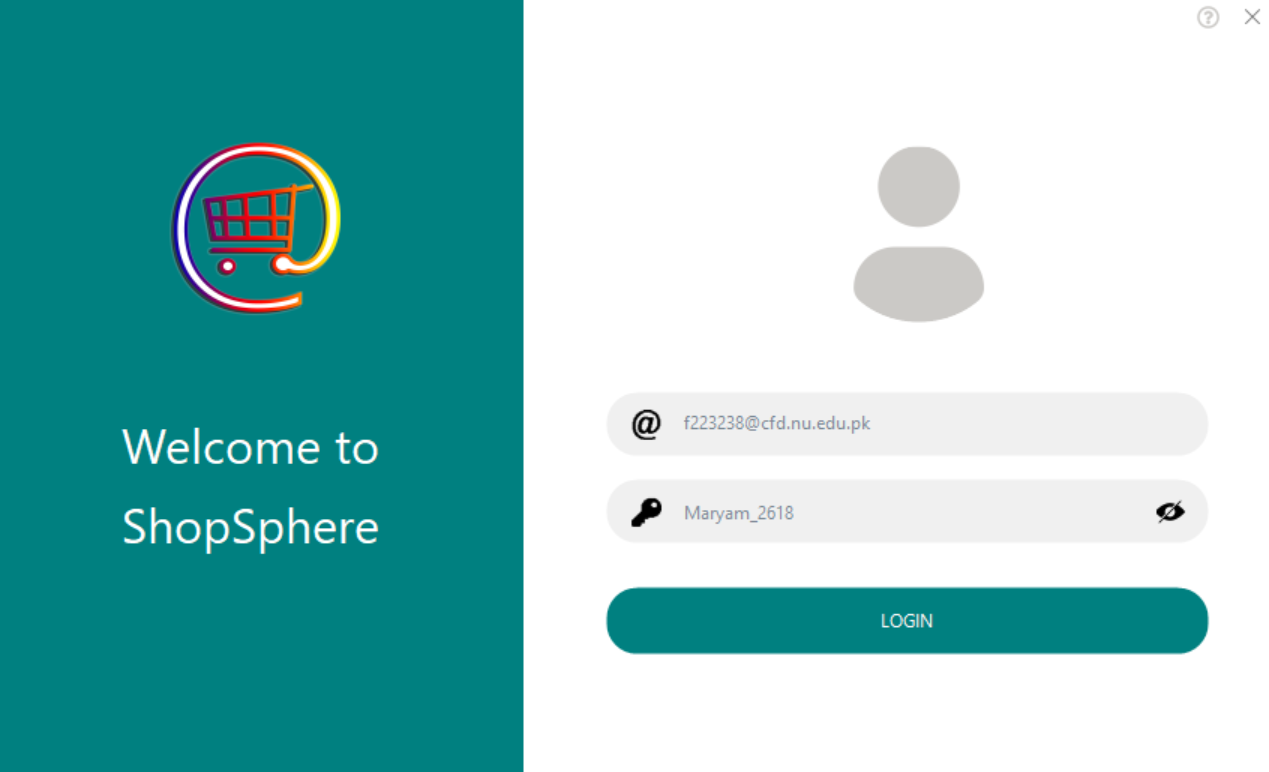
# Loading Screen

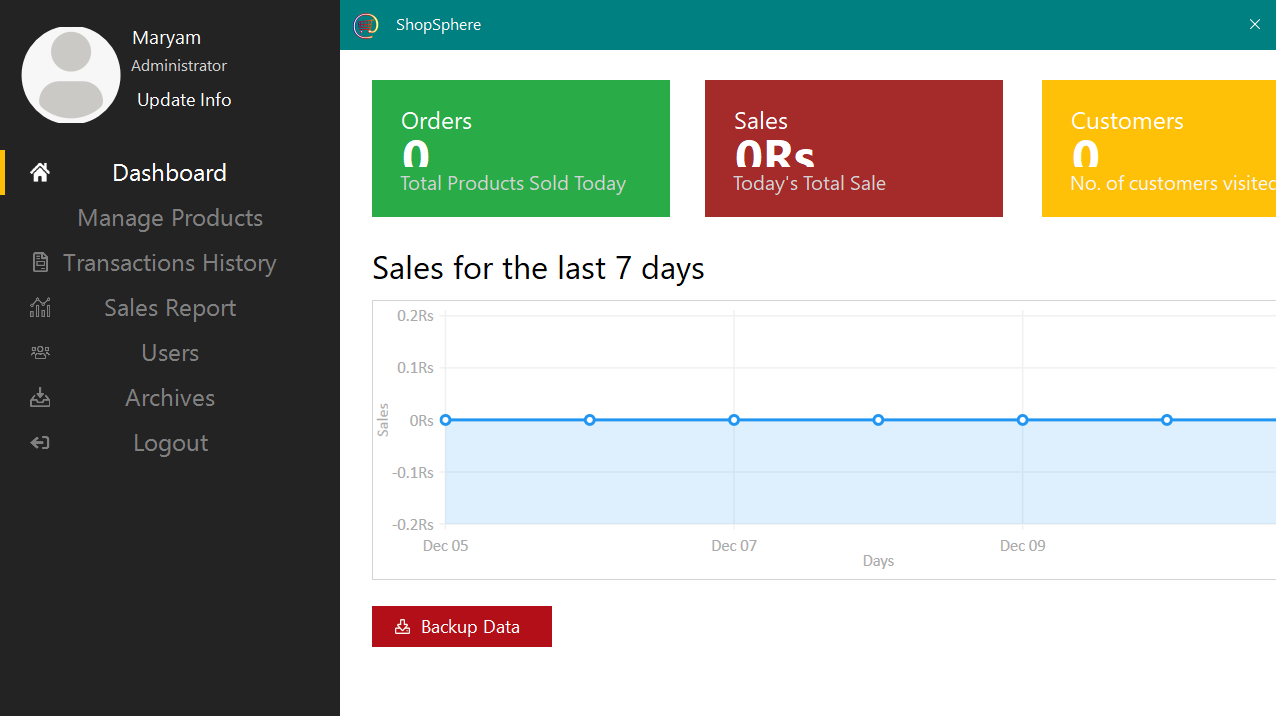


# Login Screen

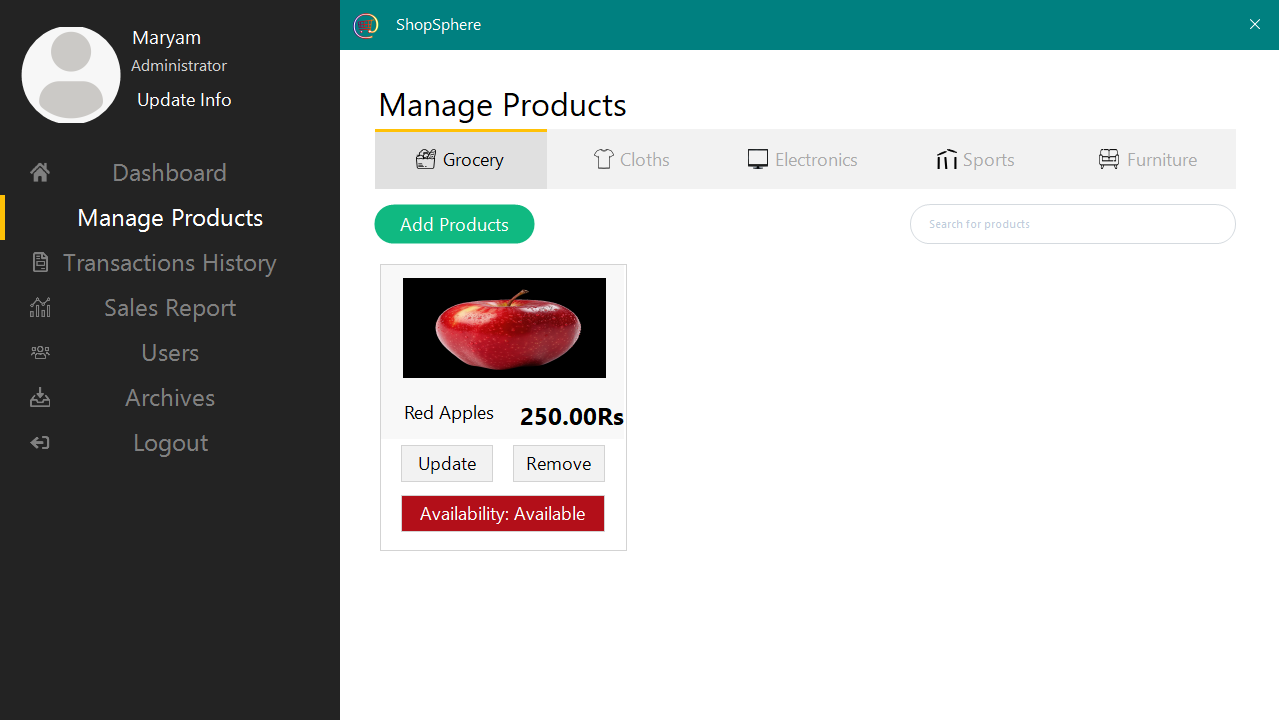


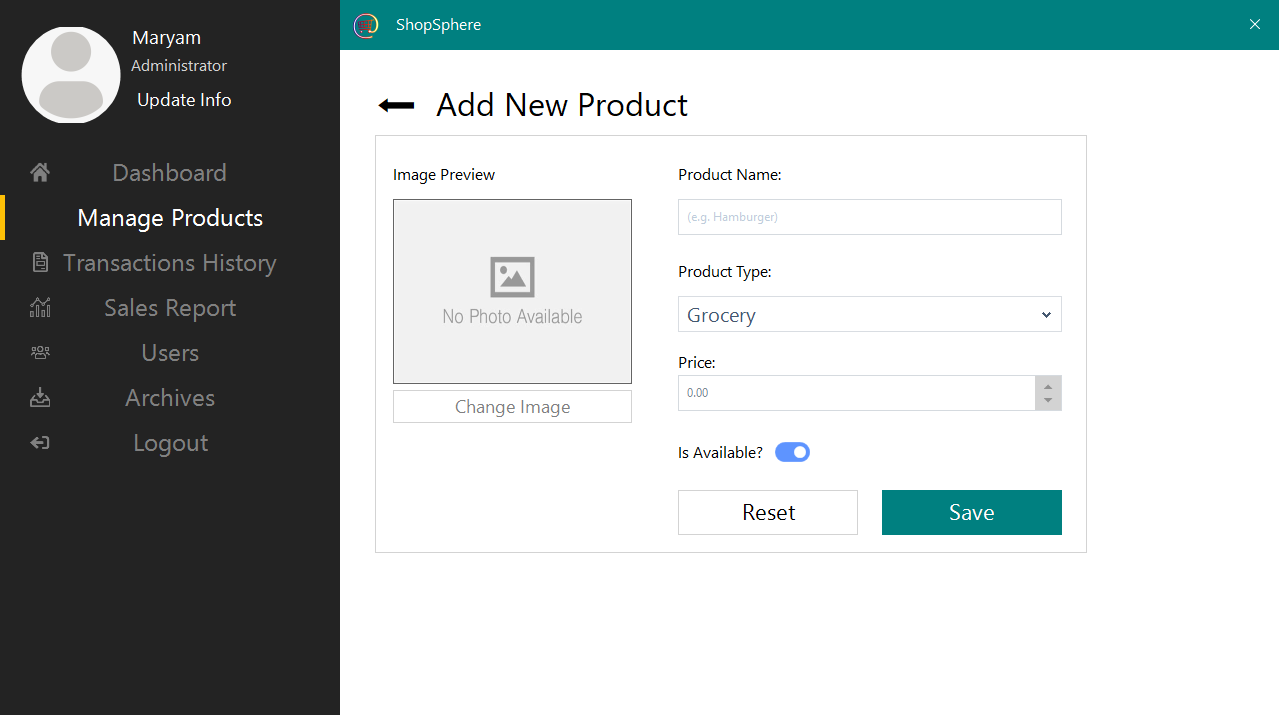
# Toggling the eye button

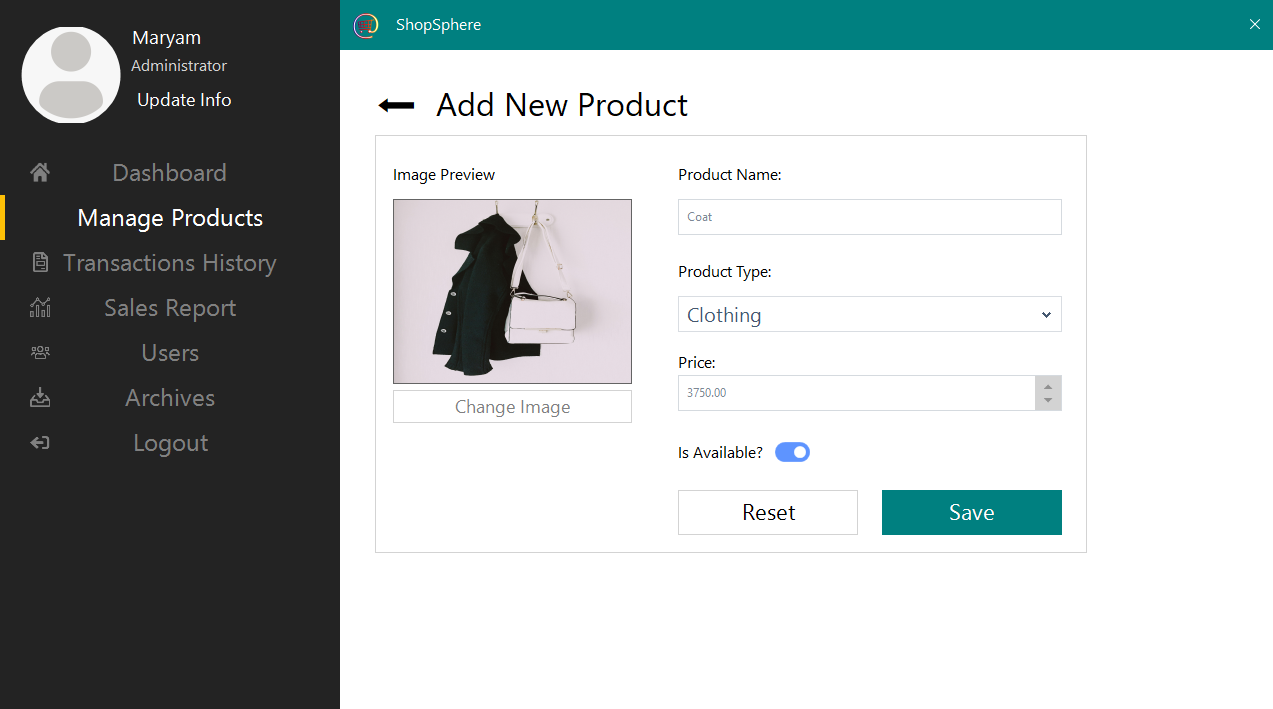


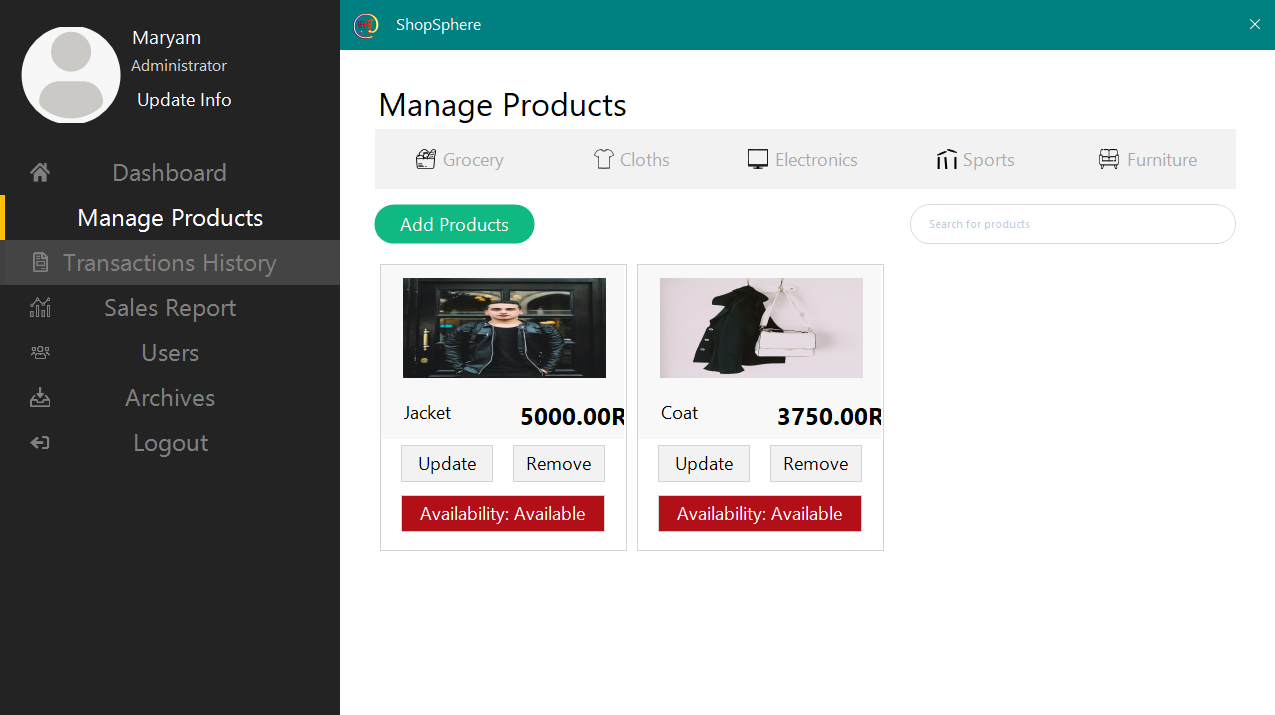


As no products are sold and hence no order or customers are made, these statistics as well as the graph is showing Zero

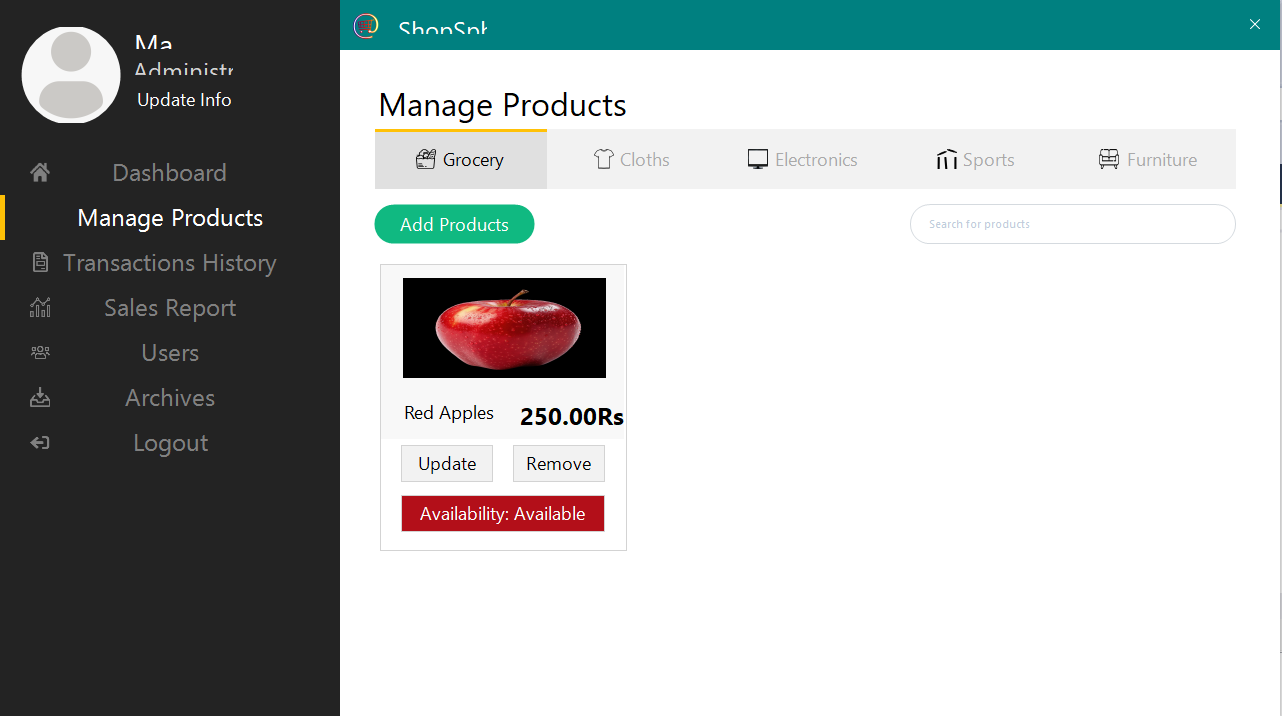


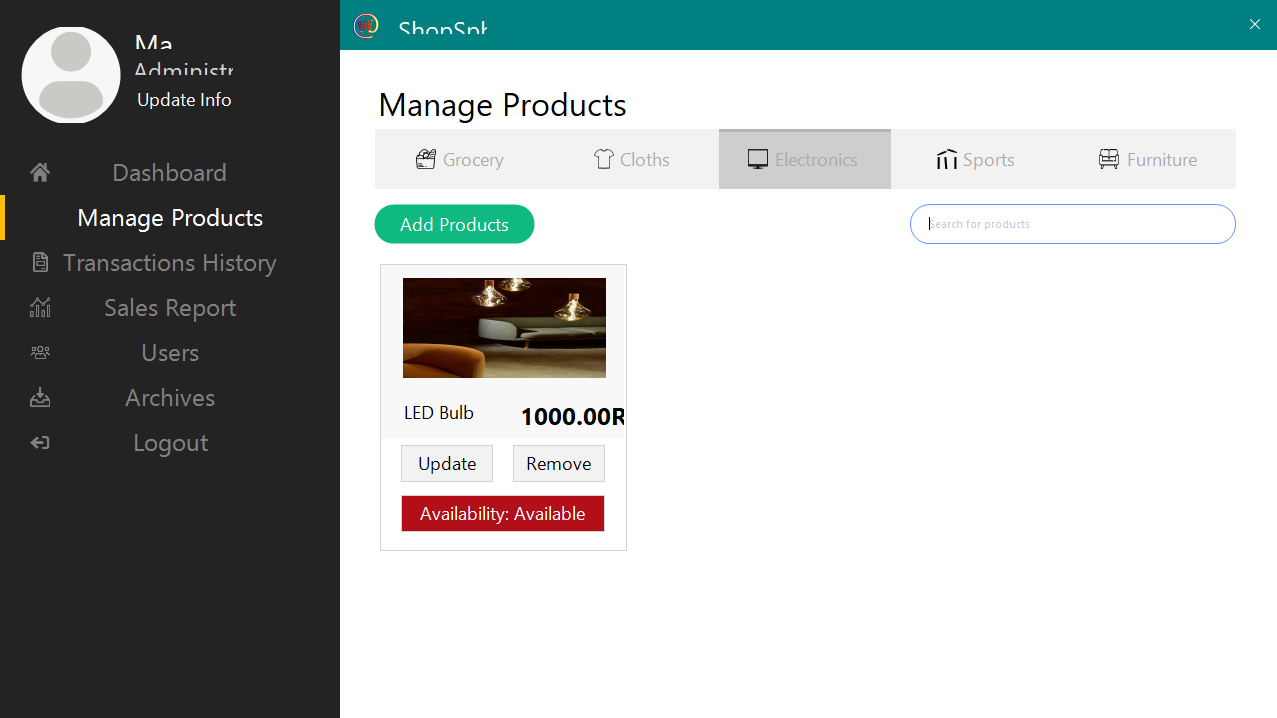


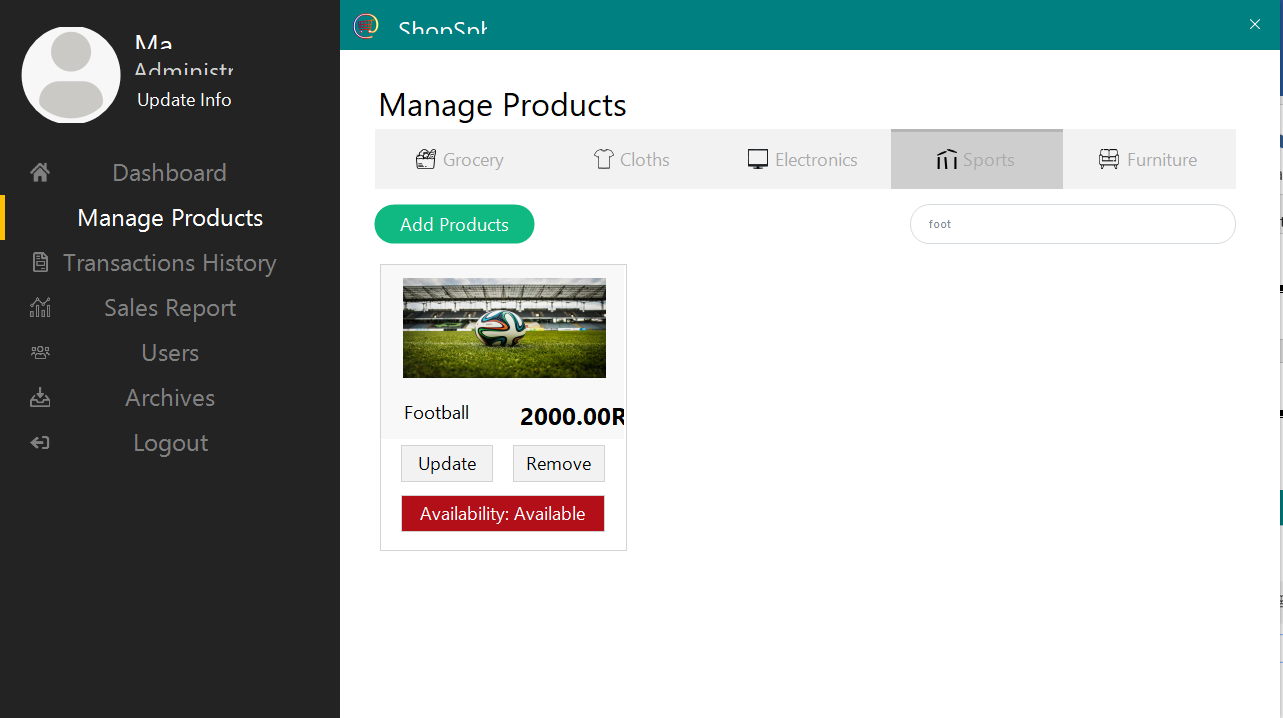


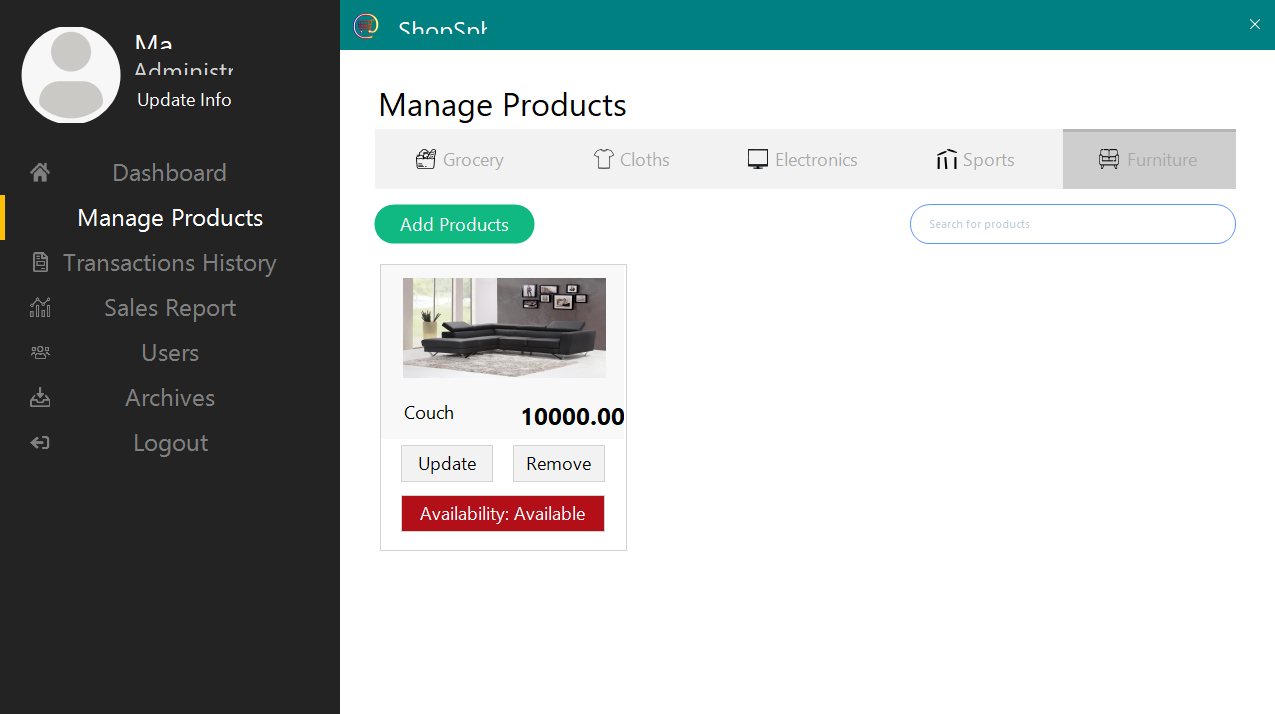


# Categories

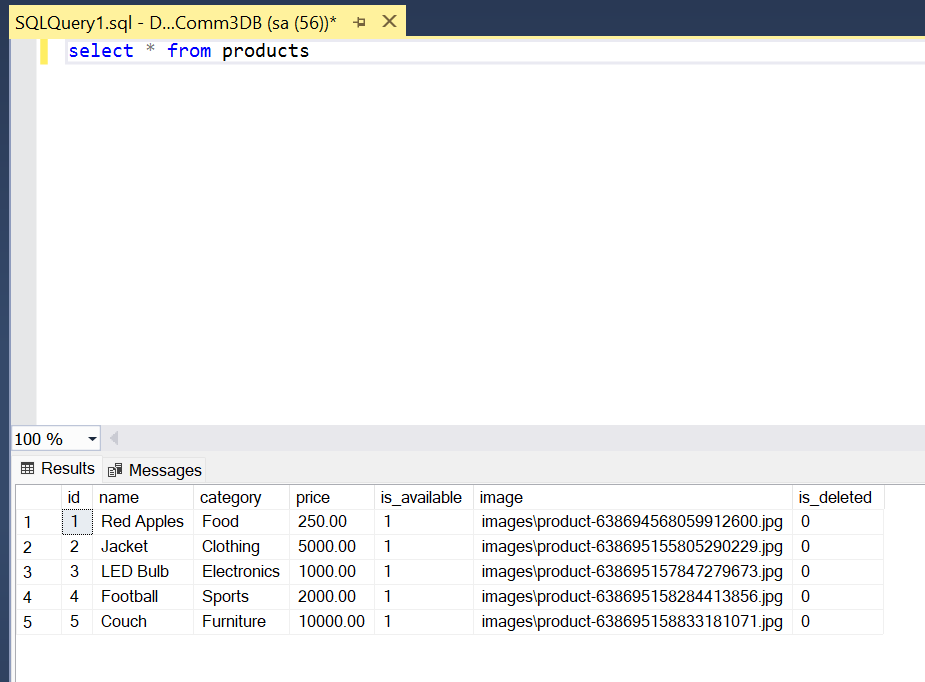




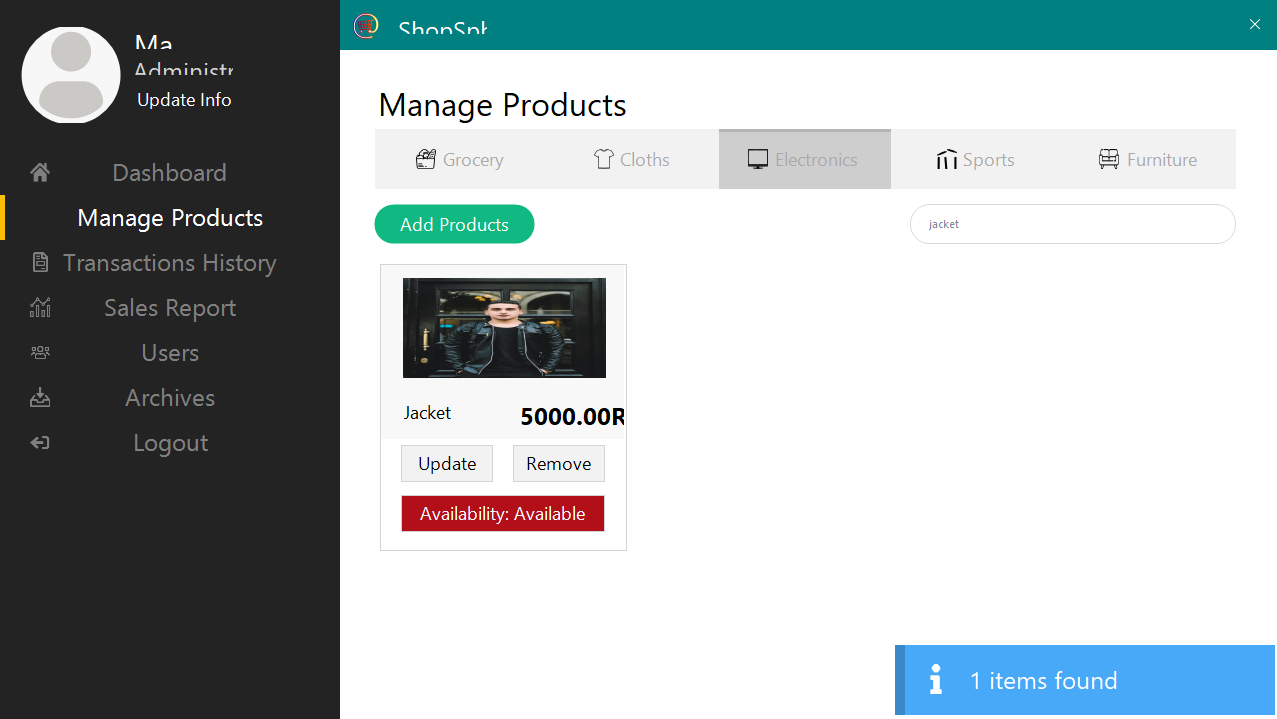




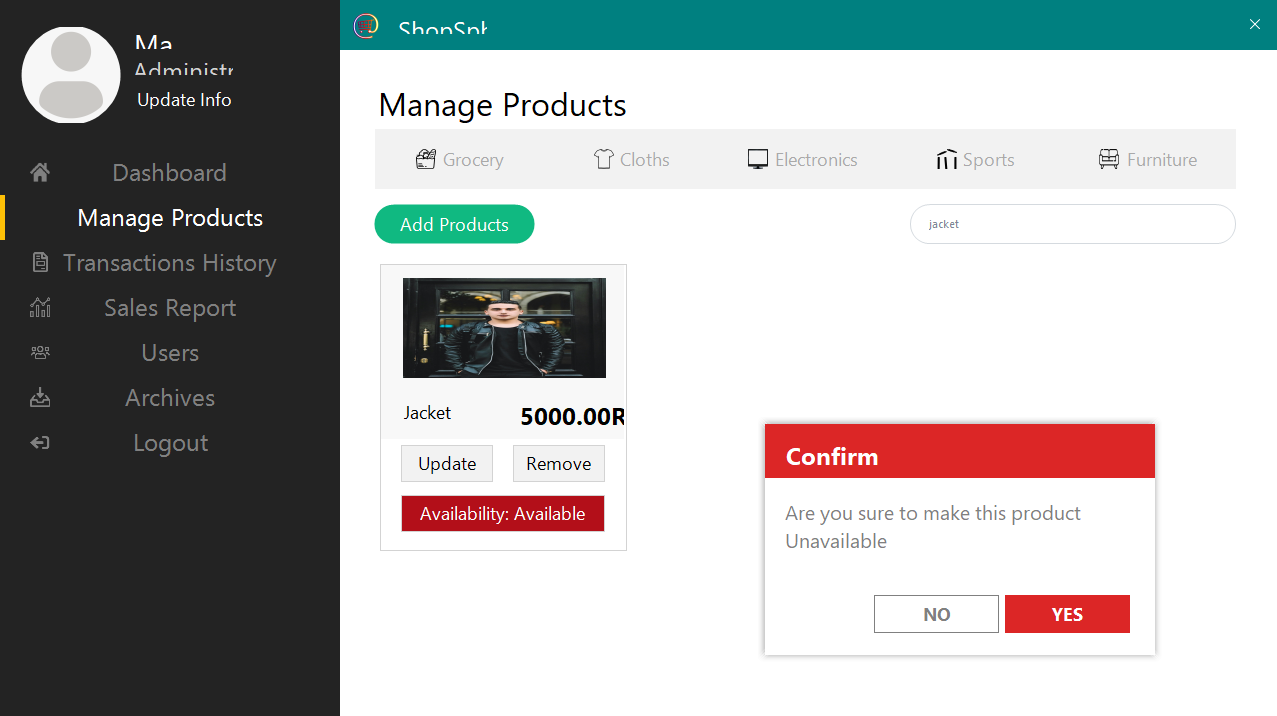
# In database

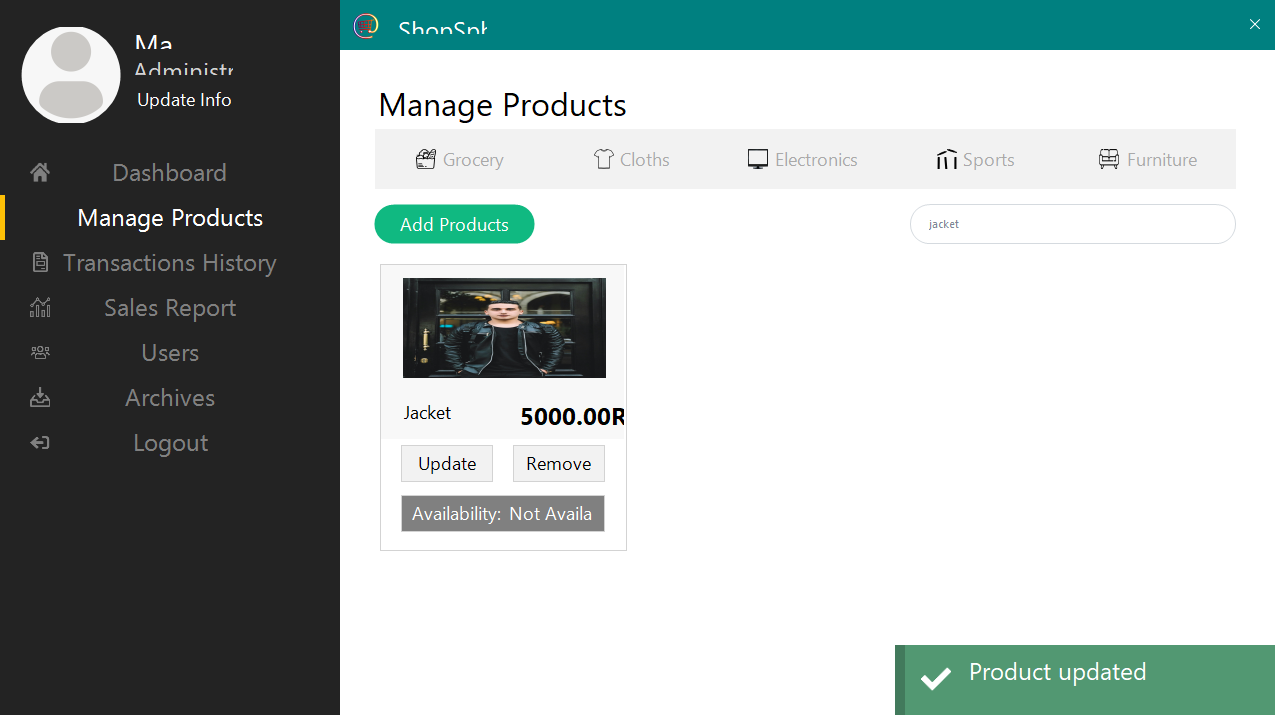


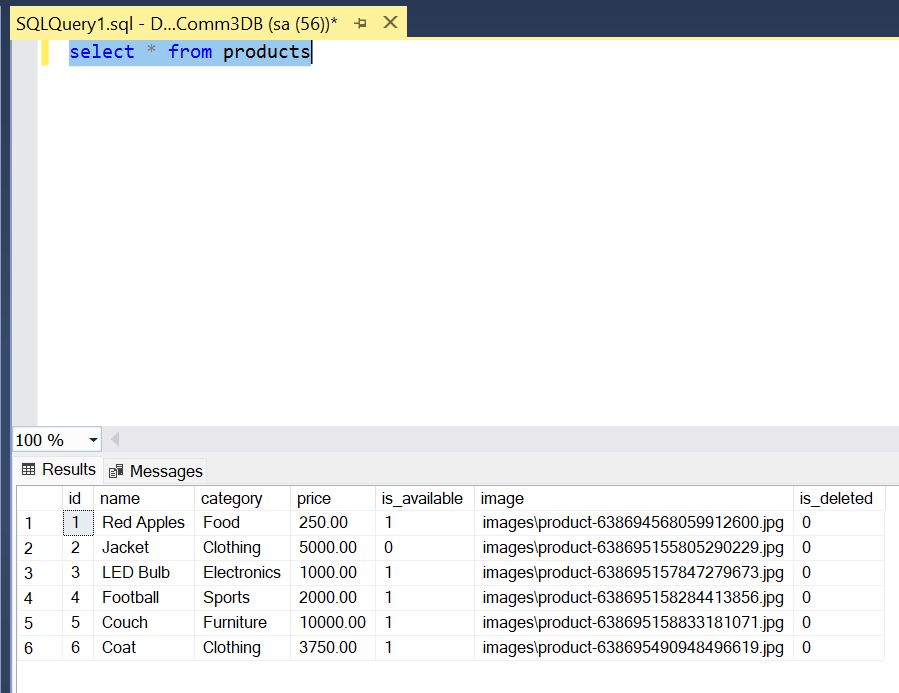
# Searching



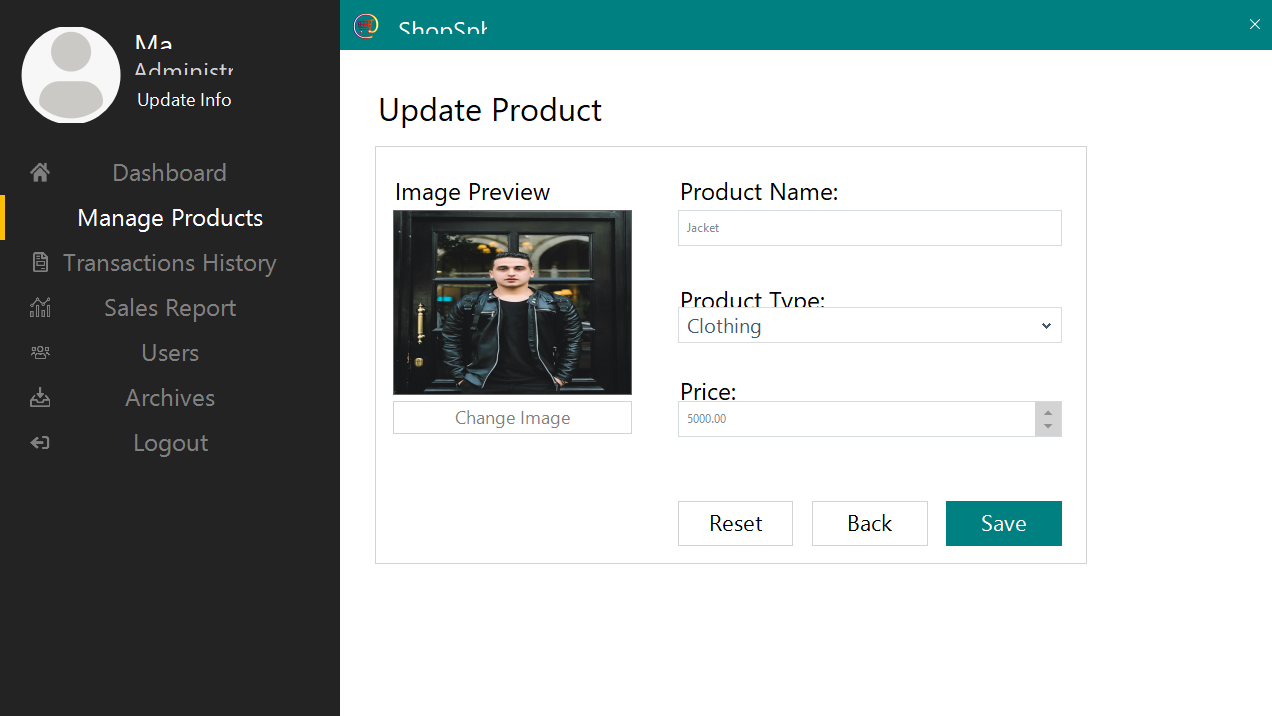
# Setting the availability to false

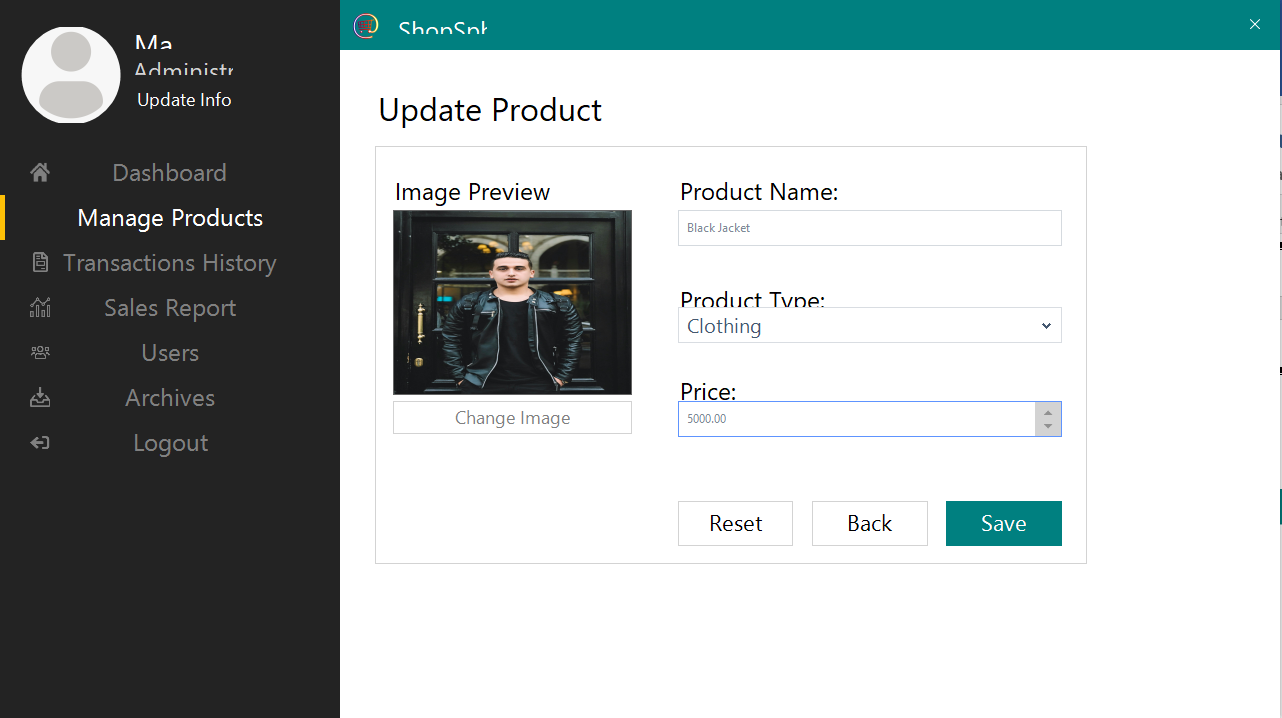


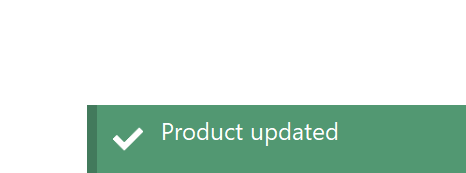


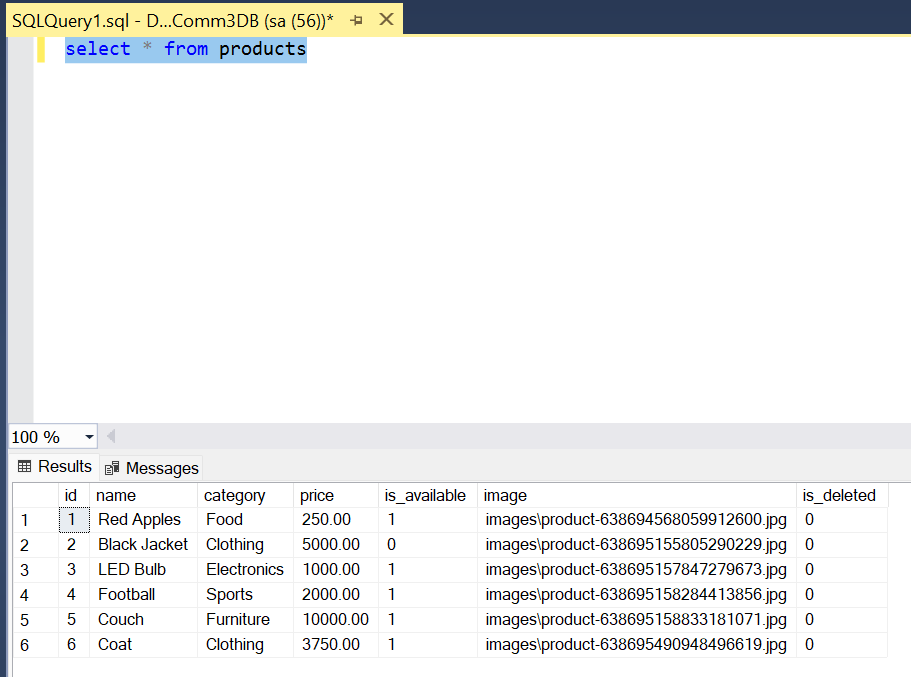


# Updating the Product

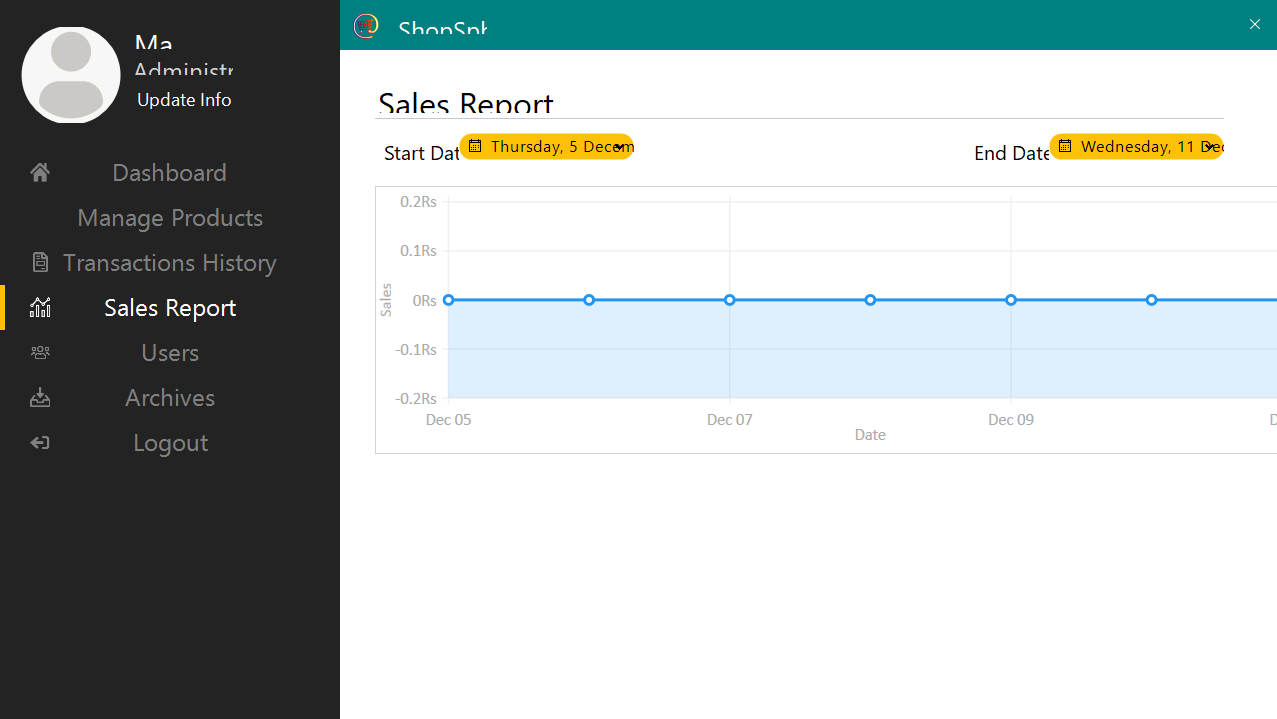




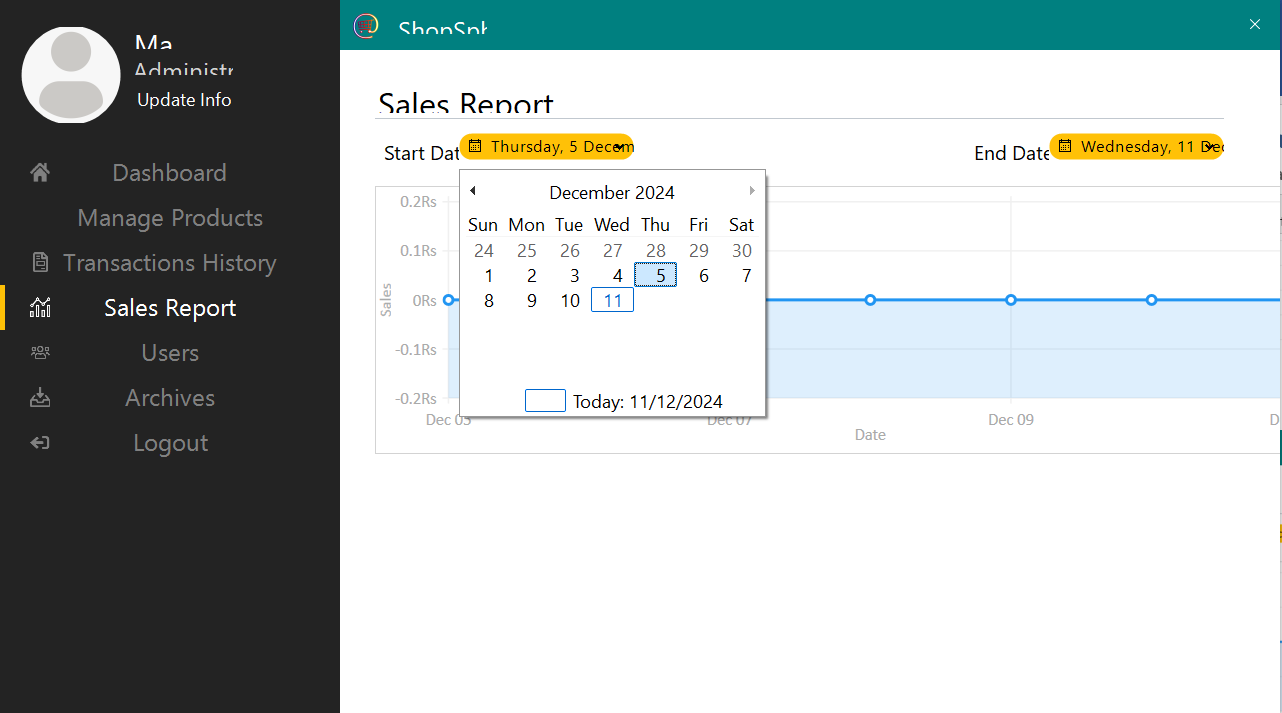




# Sales Report of the Week

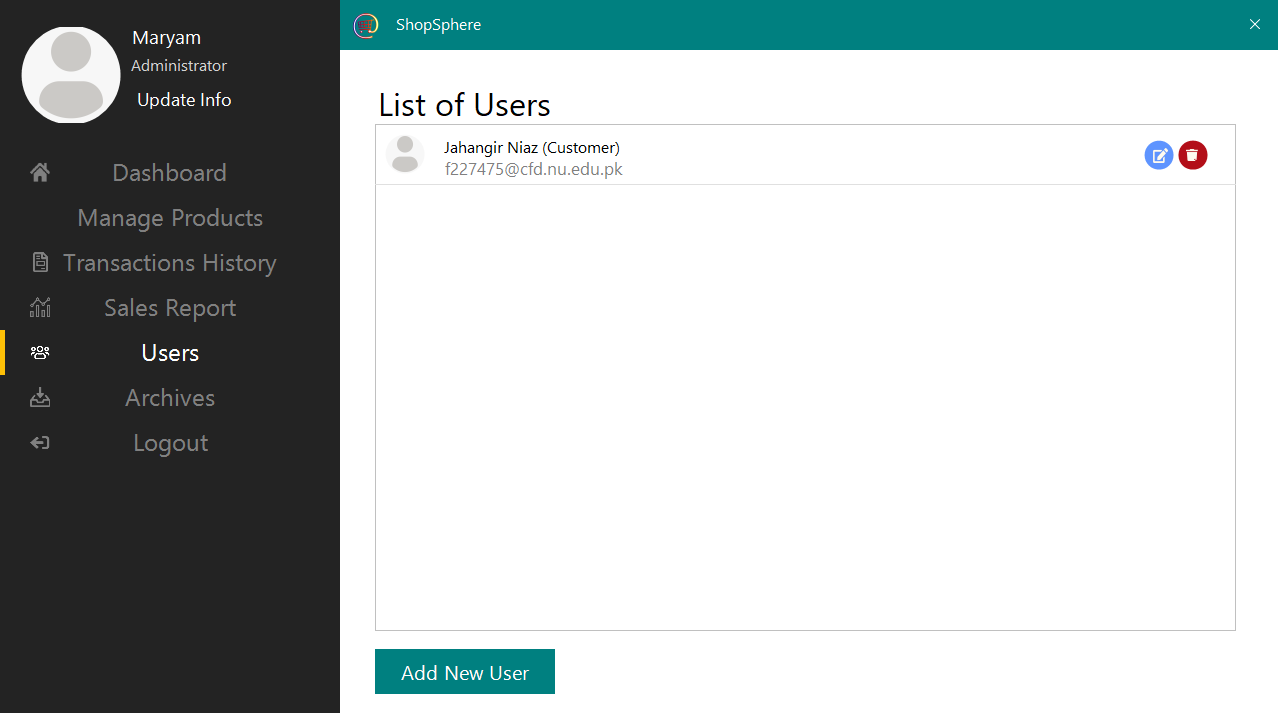


# We can set the calendar as well



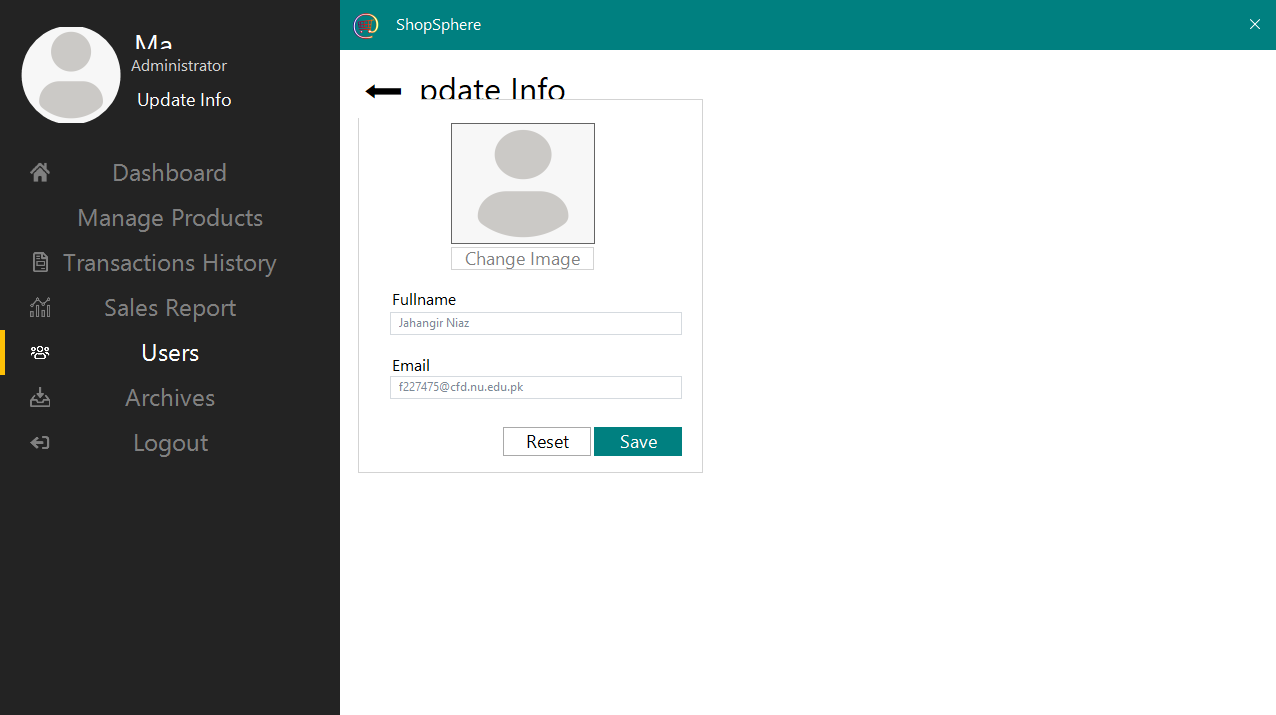
It will now show the sales of that modified timeperiod

# Users

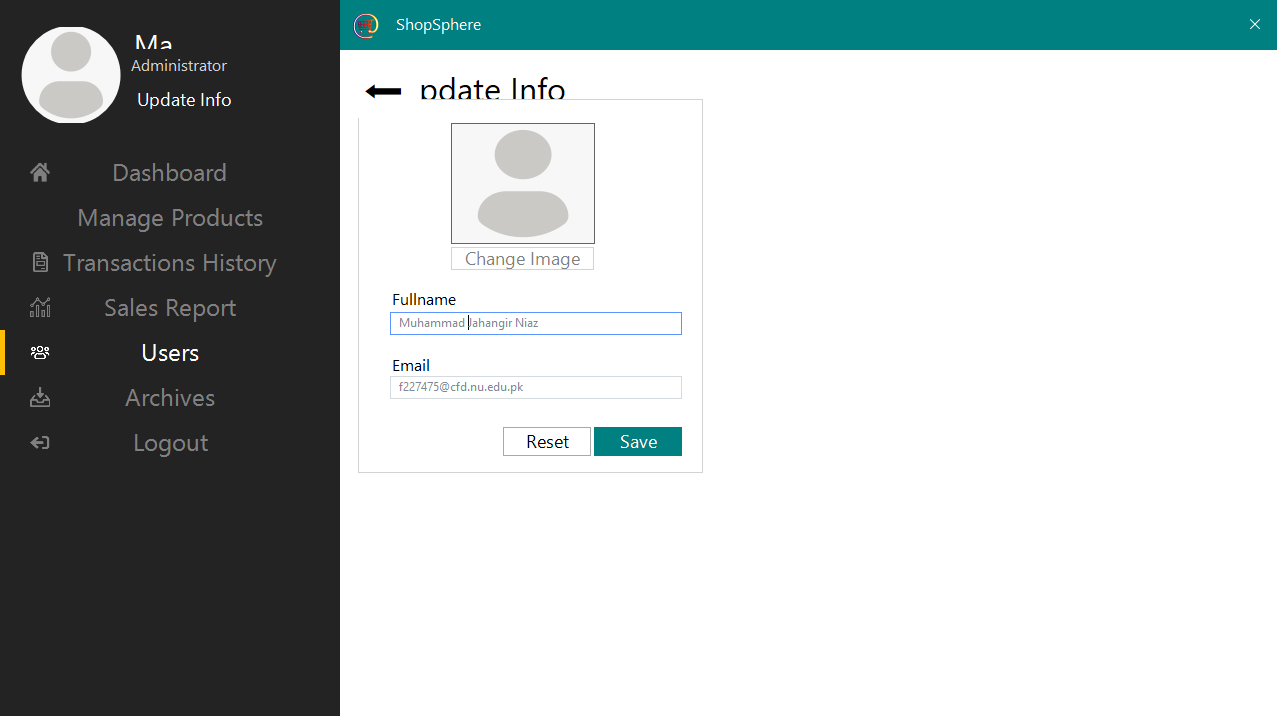


It shows the users of the application that are registered, currently we have 1 customer

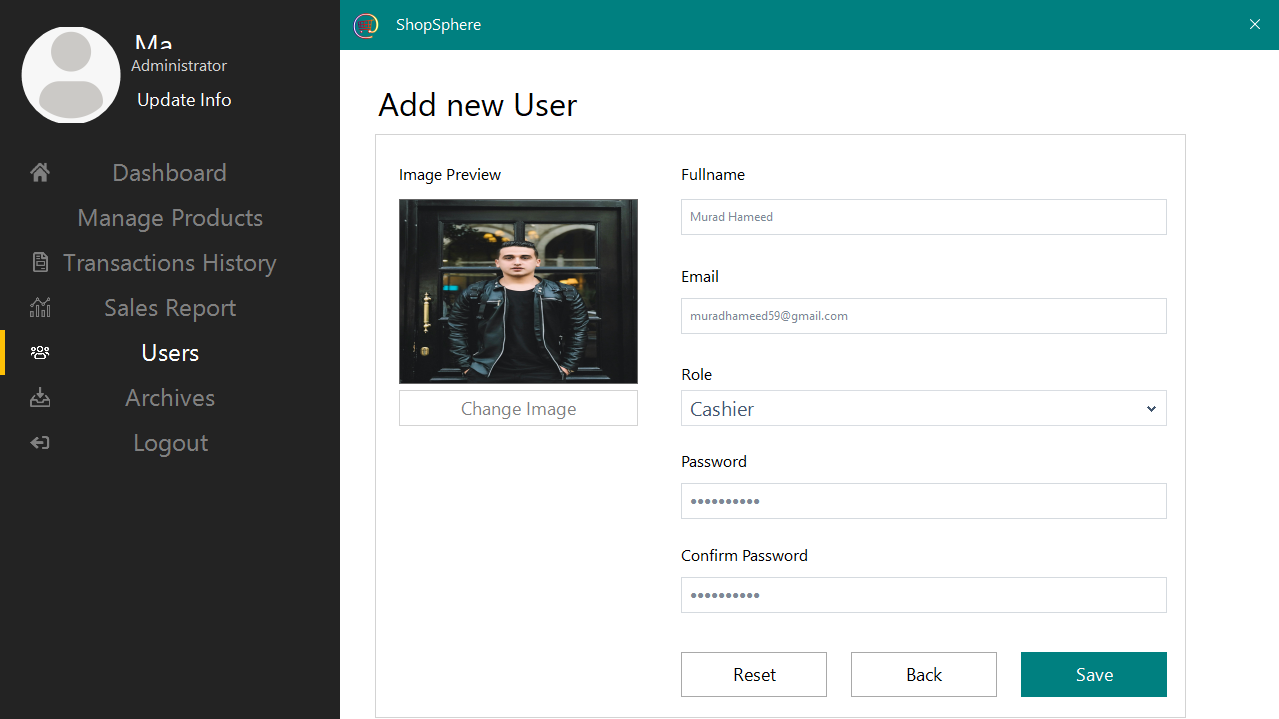
# Updating User

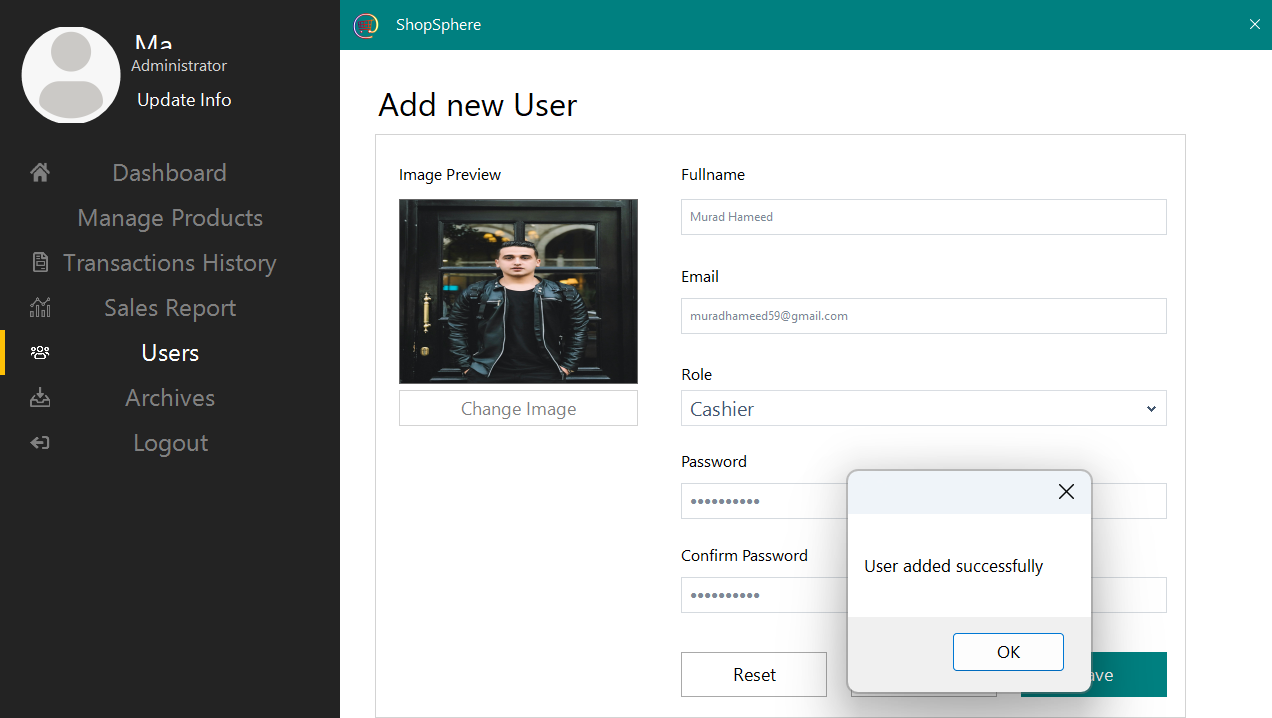


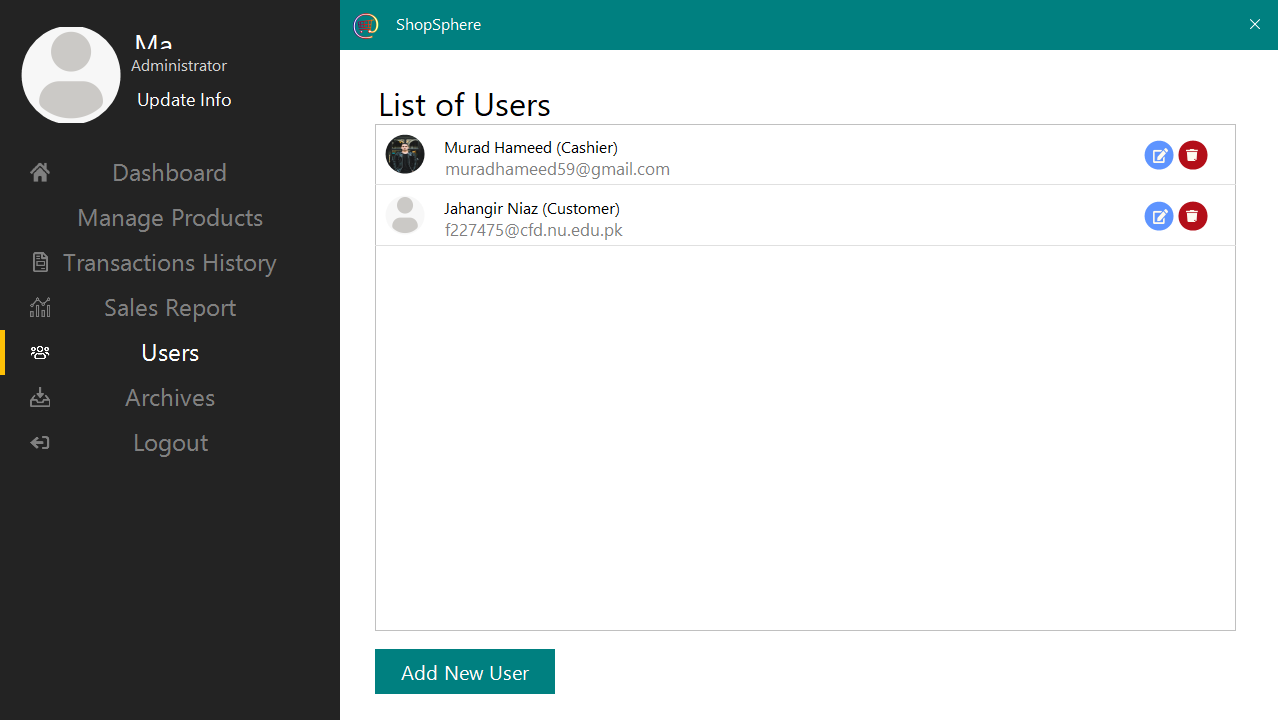
We can edit the customer that we added

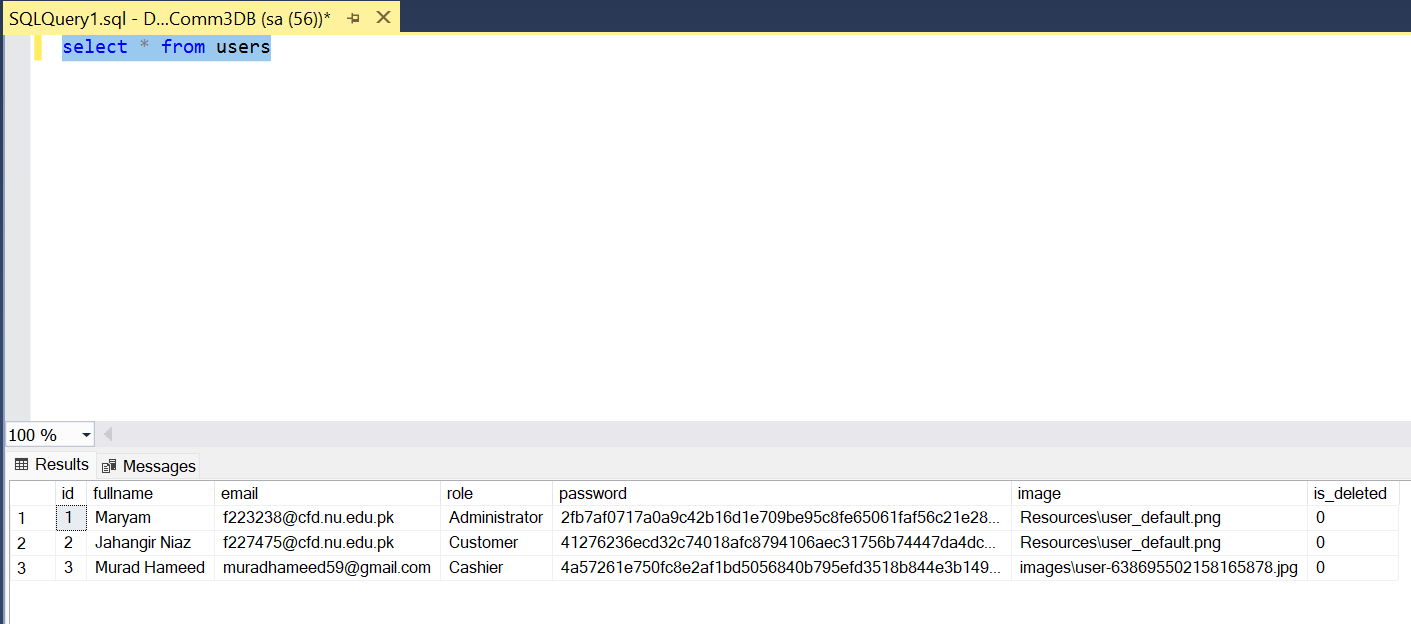


# Adding new user



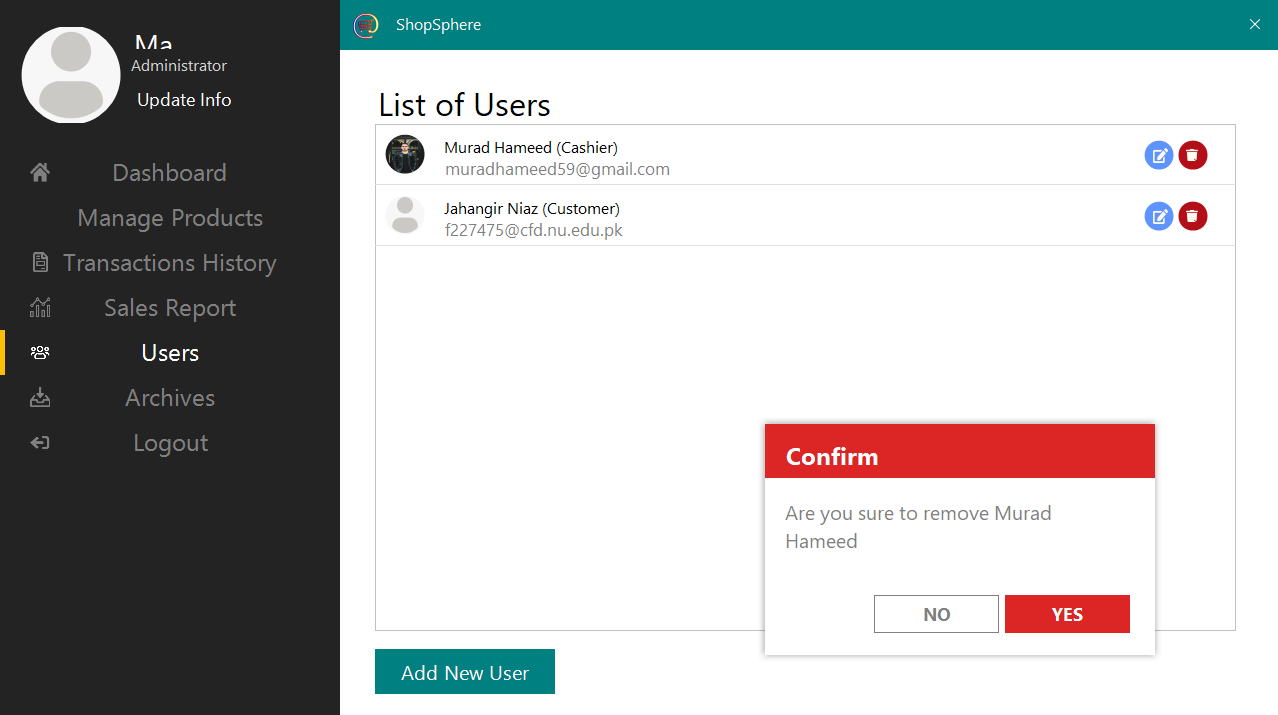


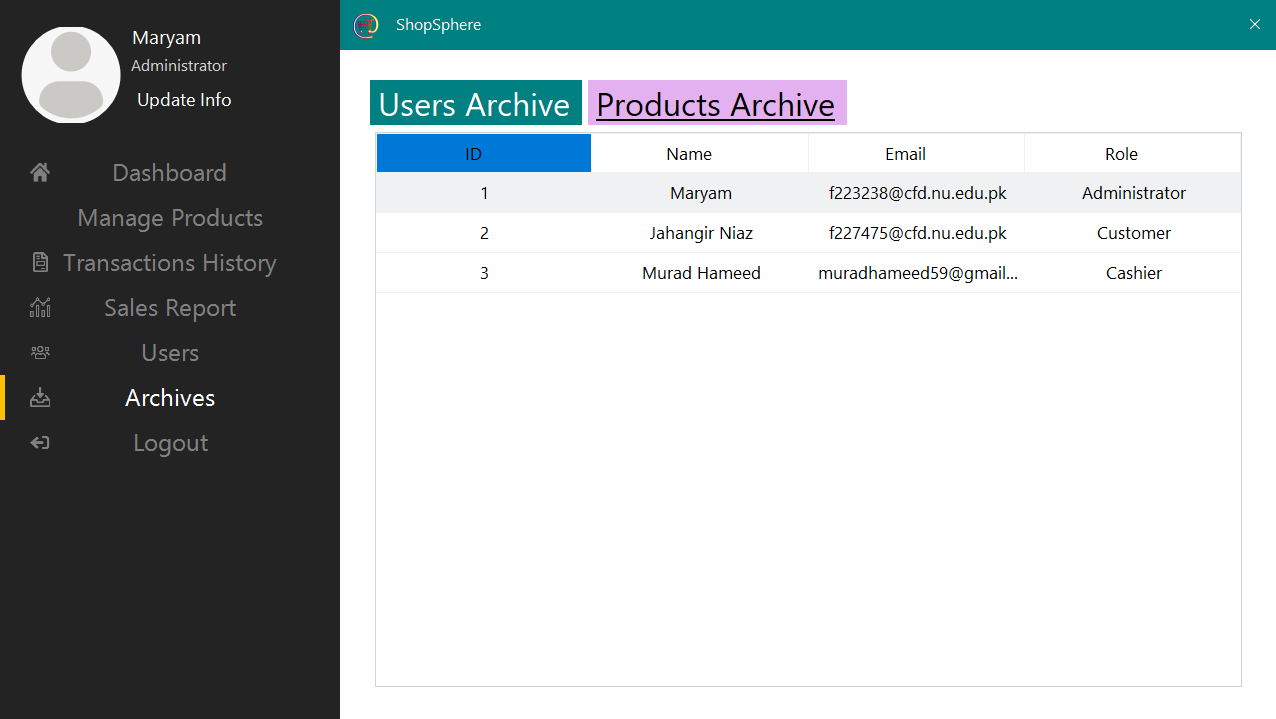




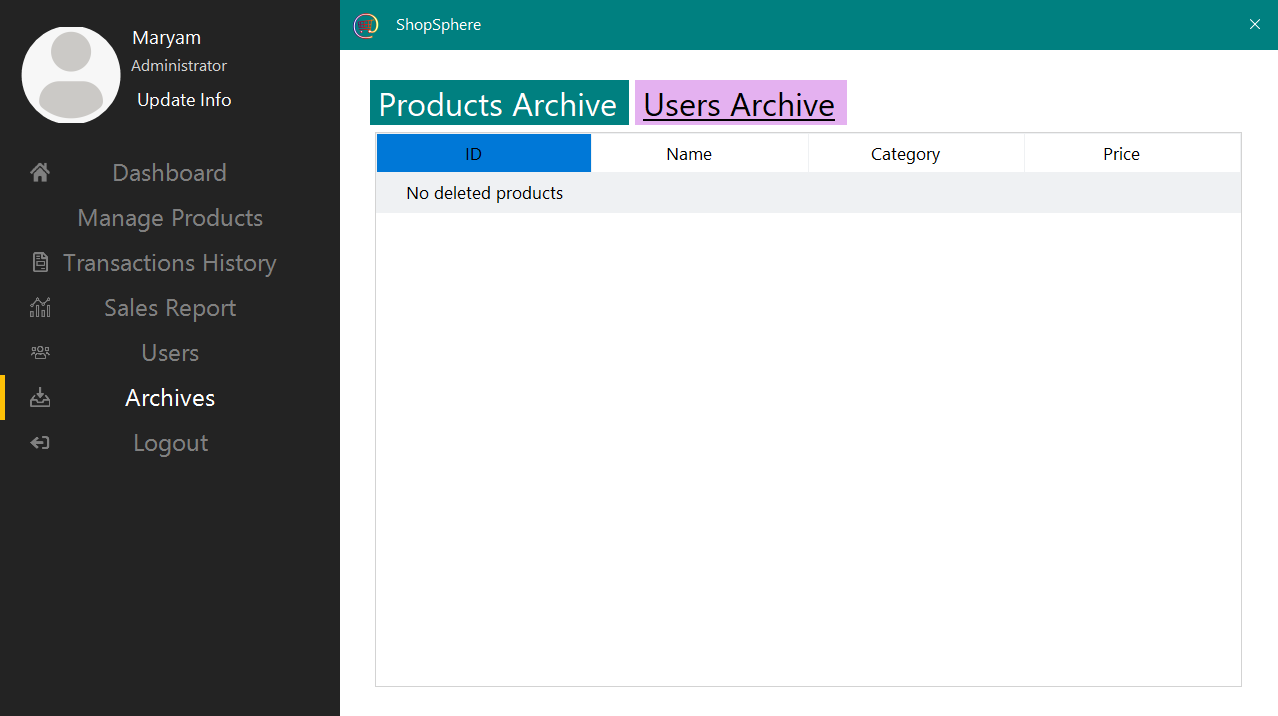
# You can see that the password is stored in the form of HASH in database for security purposes

# Deleting the User



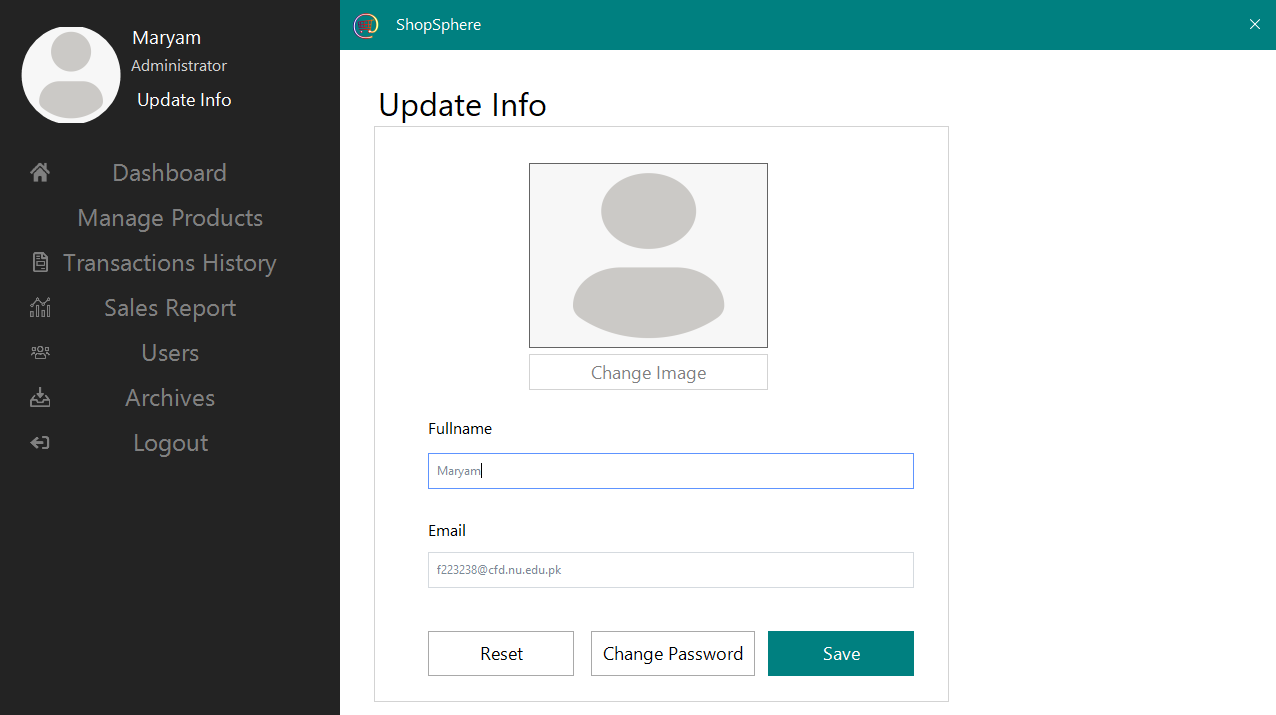


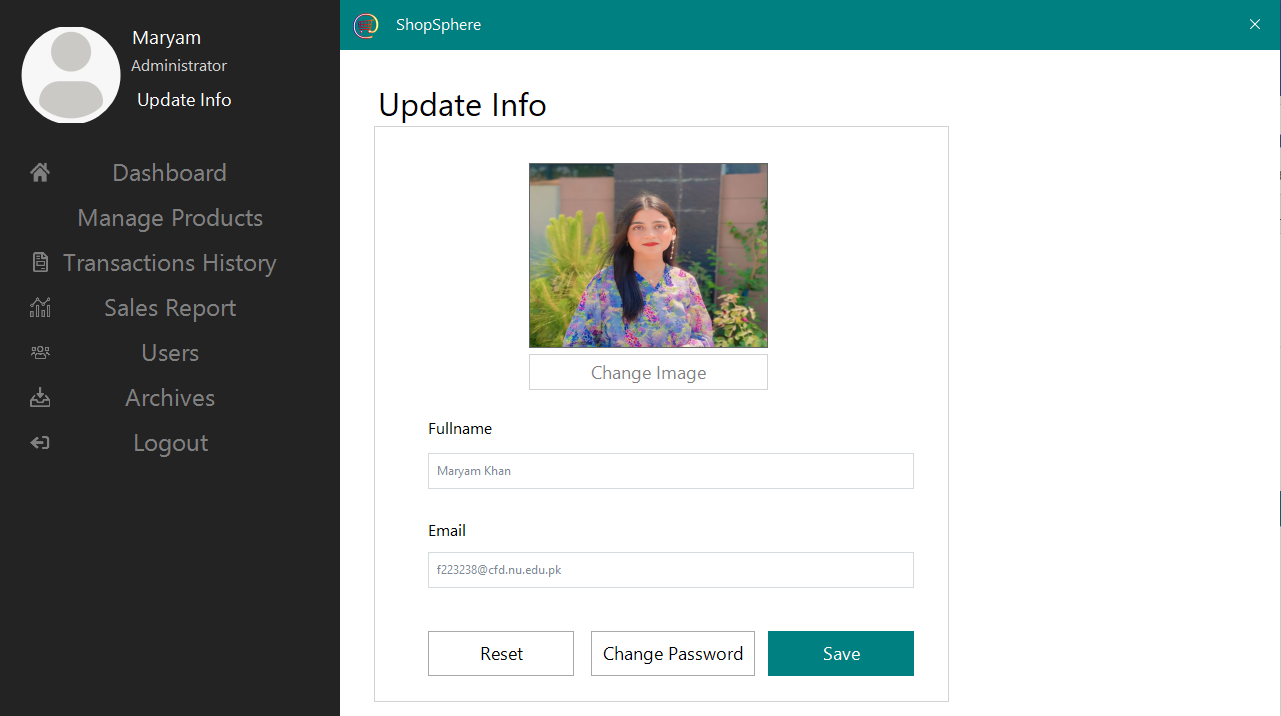
# Product Archive



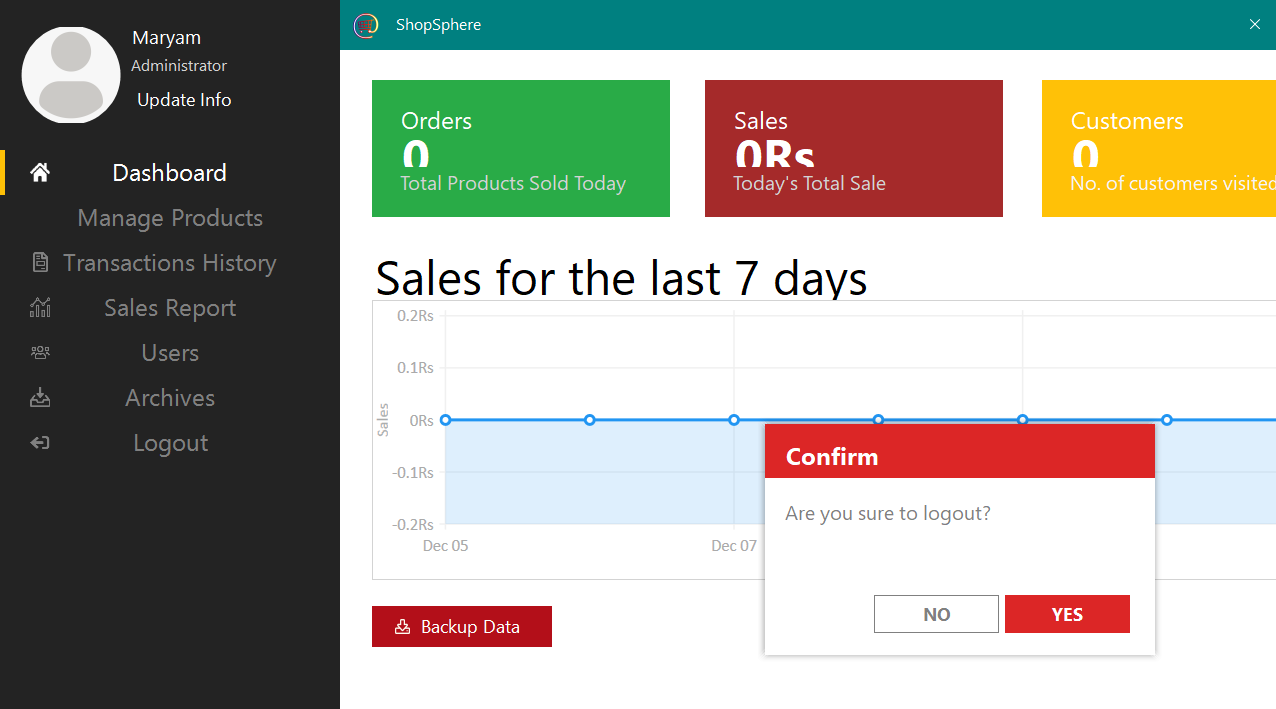
It shows the products that are deleted

# Updating your own info



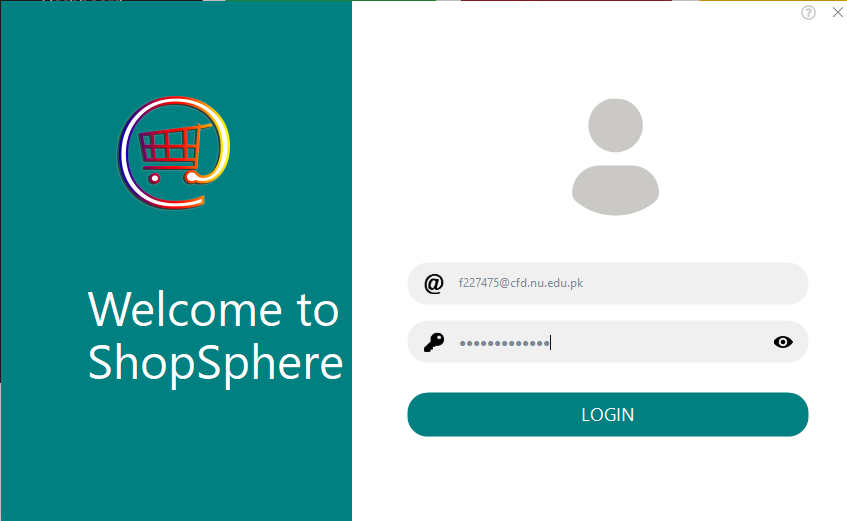


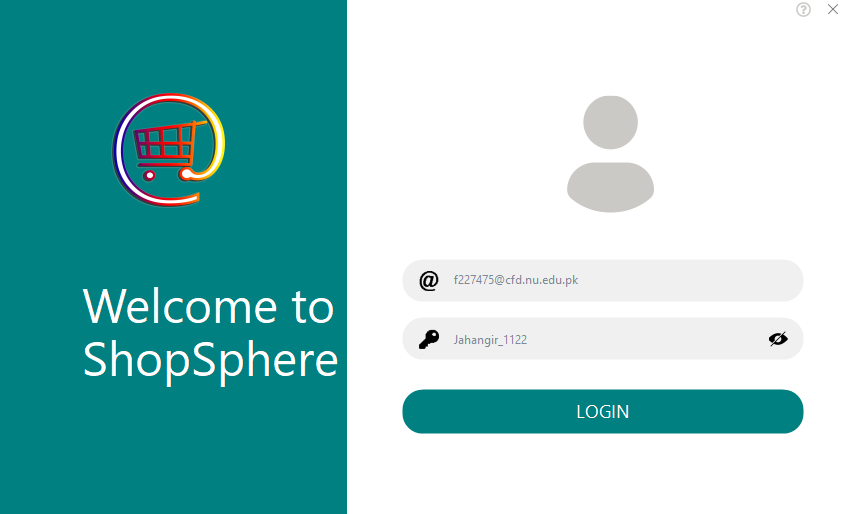
# Log out



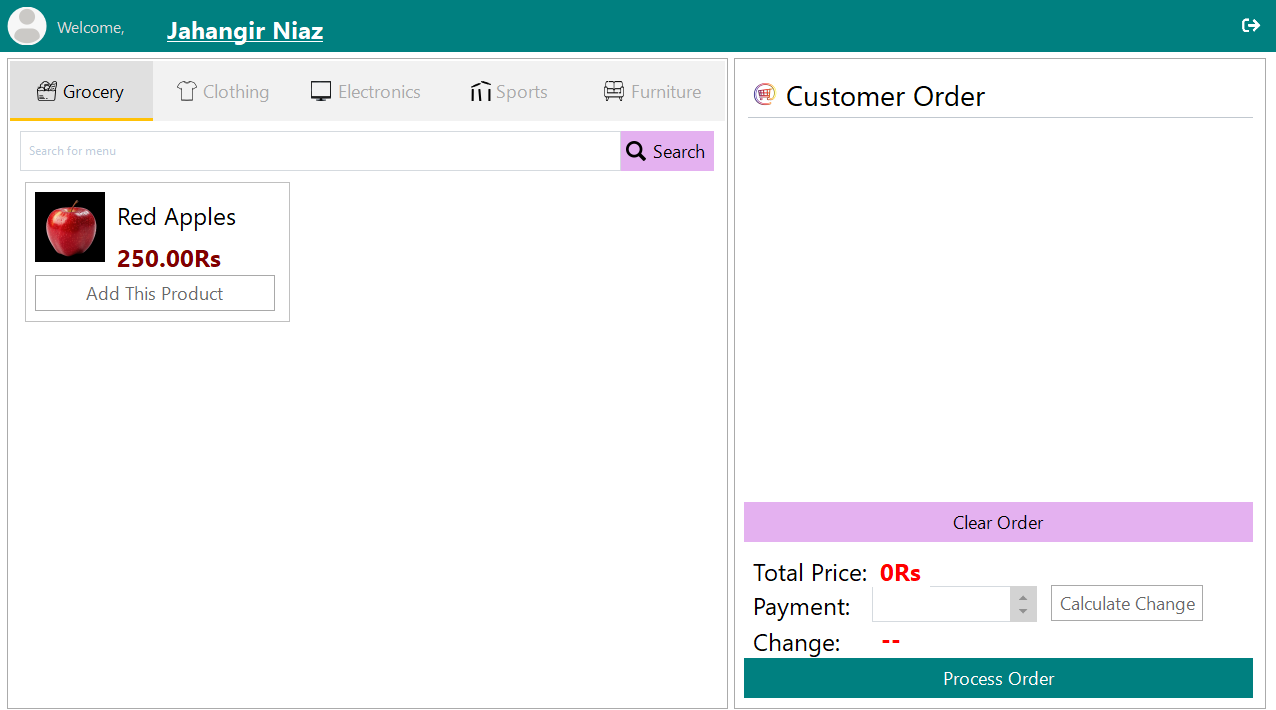
# Role as Cashier

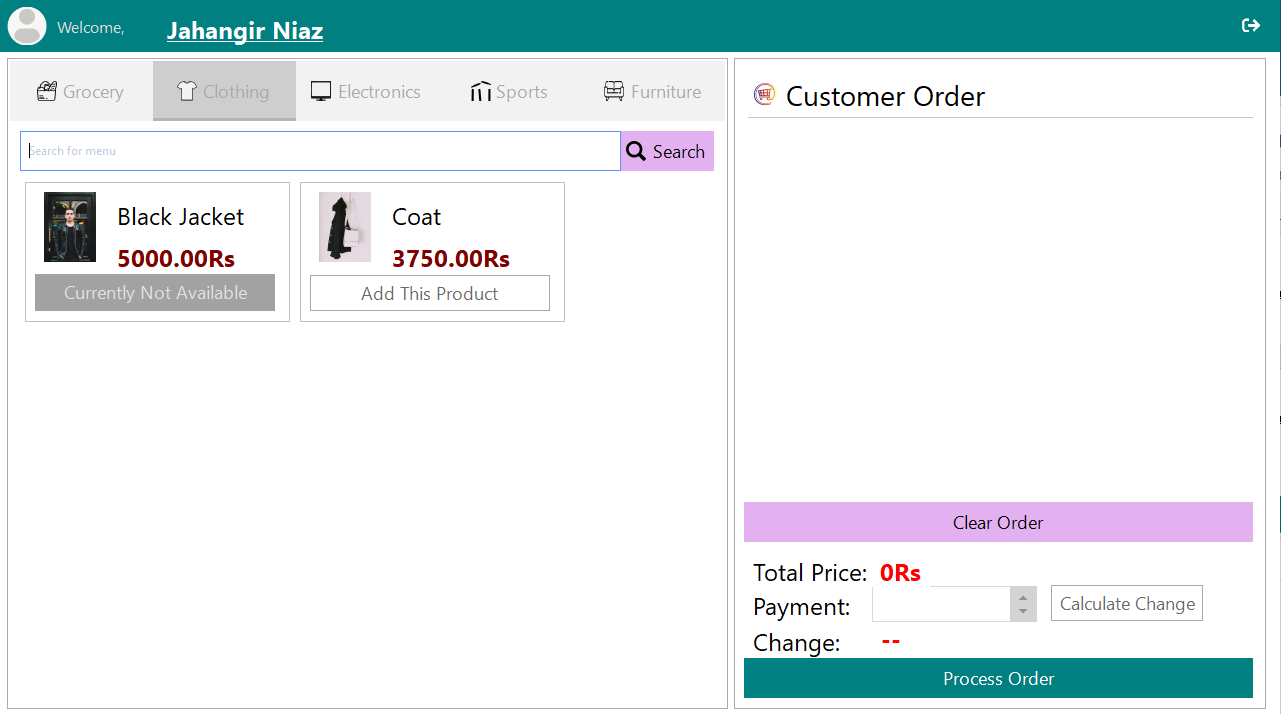
# Login

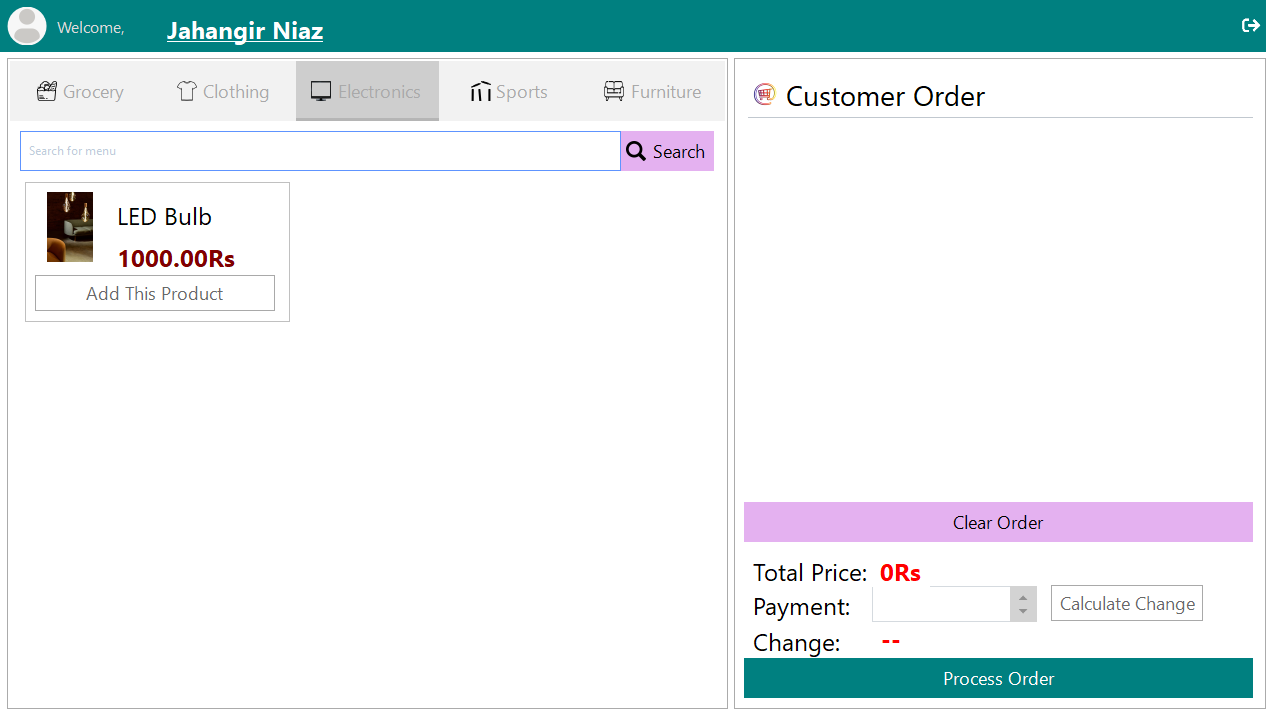


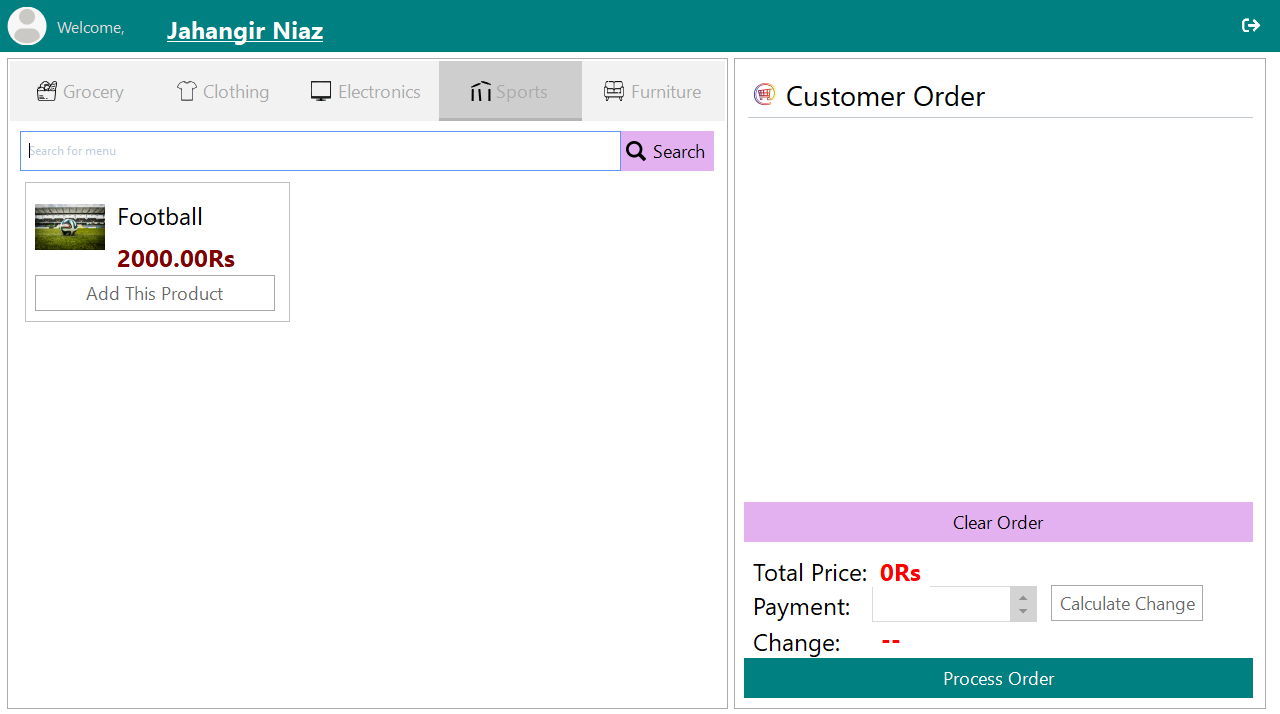


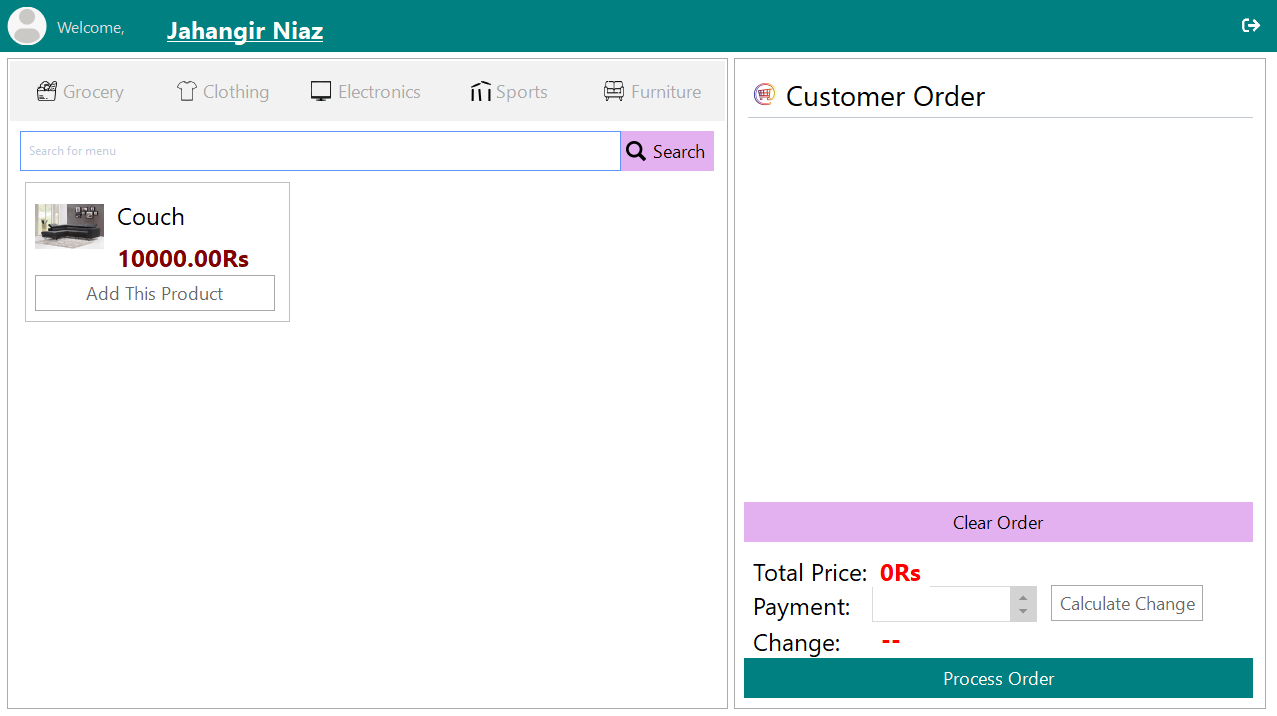
# Browse by Category



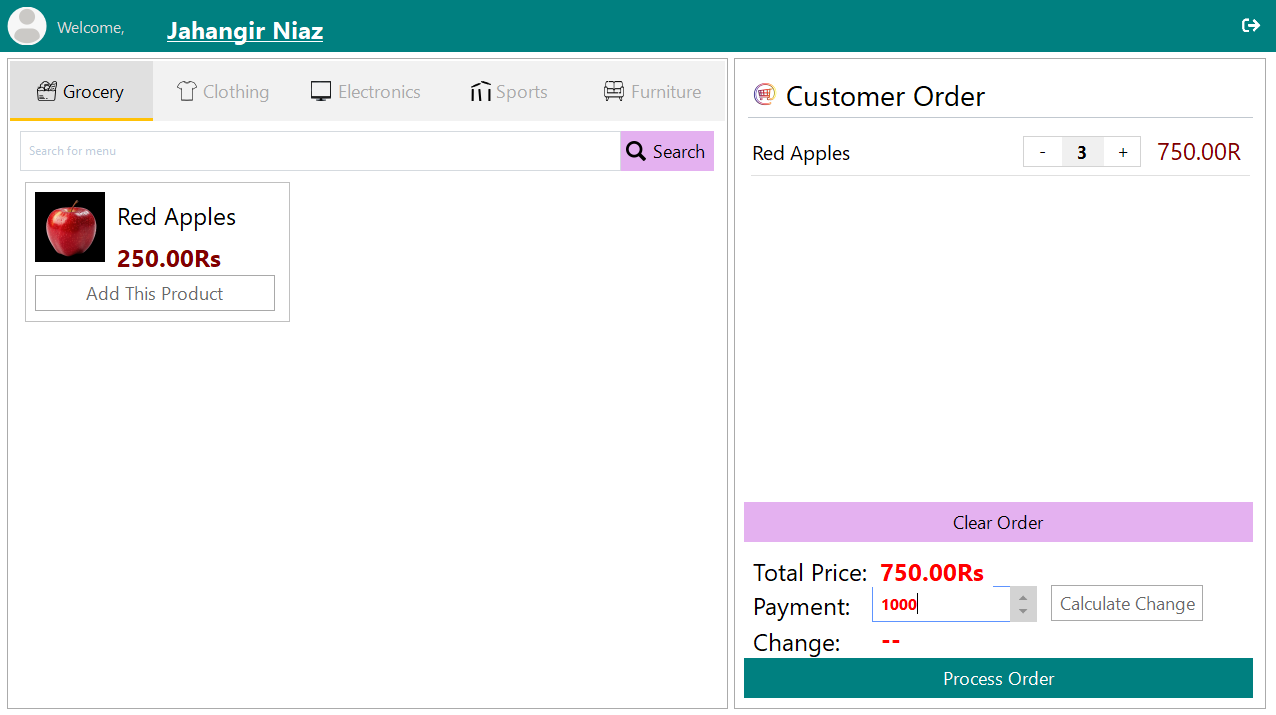




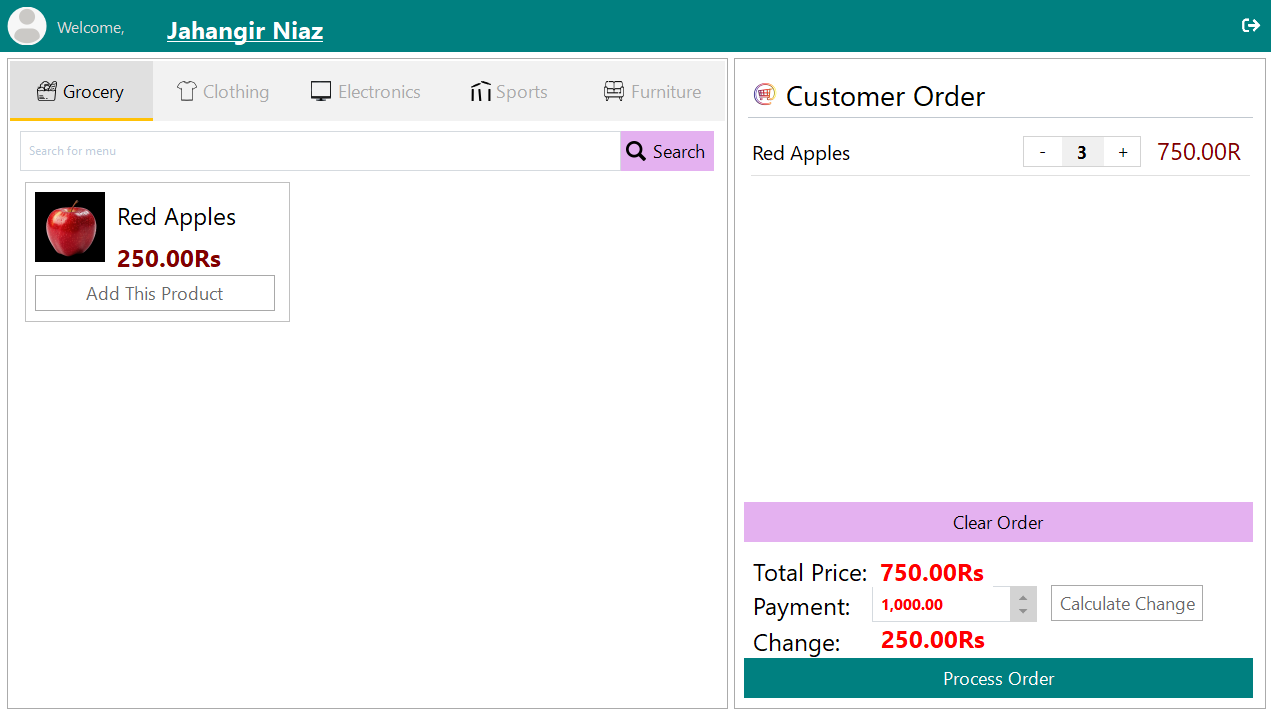




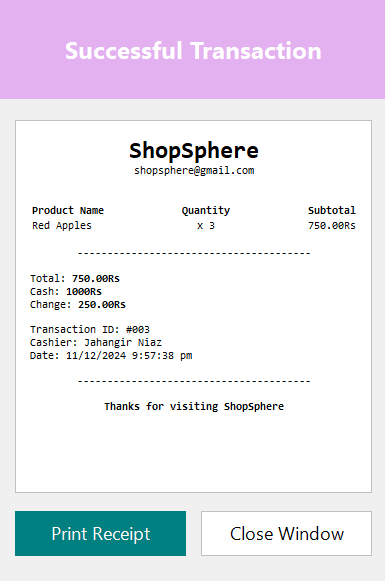
# Add to Cart



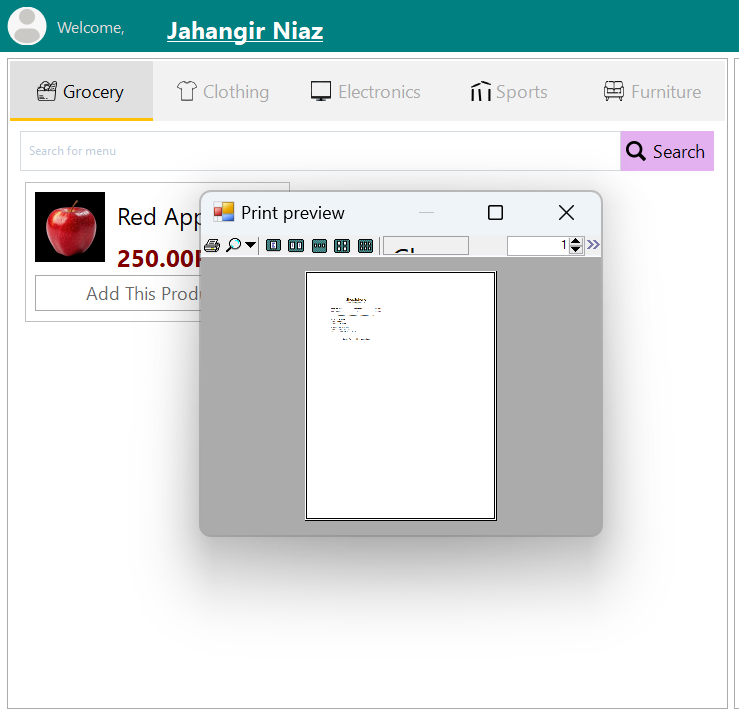
Customer can click “Add This Product” multiple times or can use +, - buttons to increase the quantity of selected products.



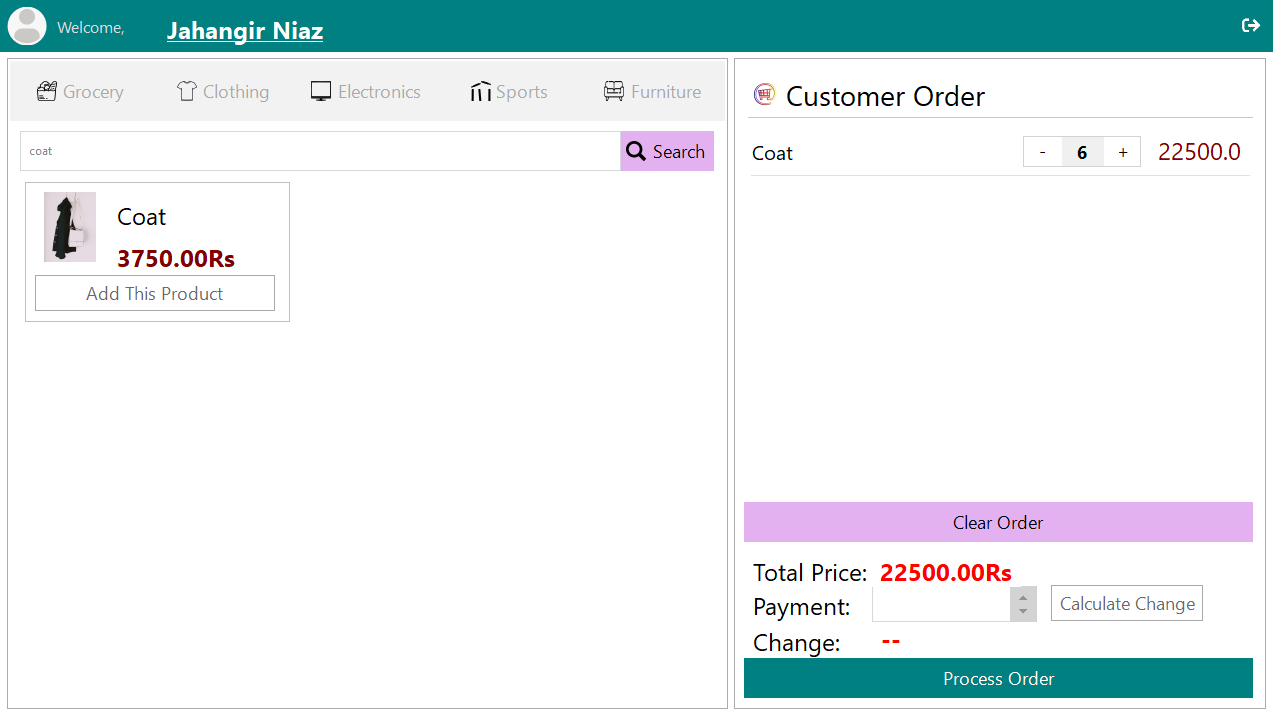
Calculate Change will calculate the remaining amount



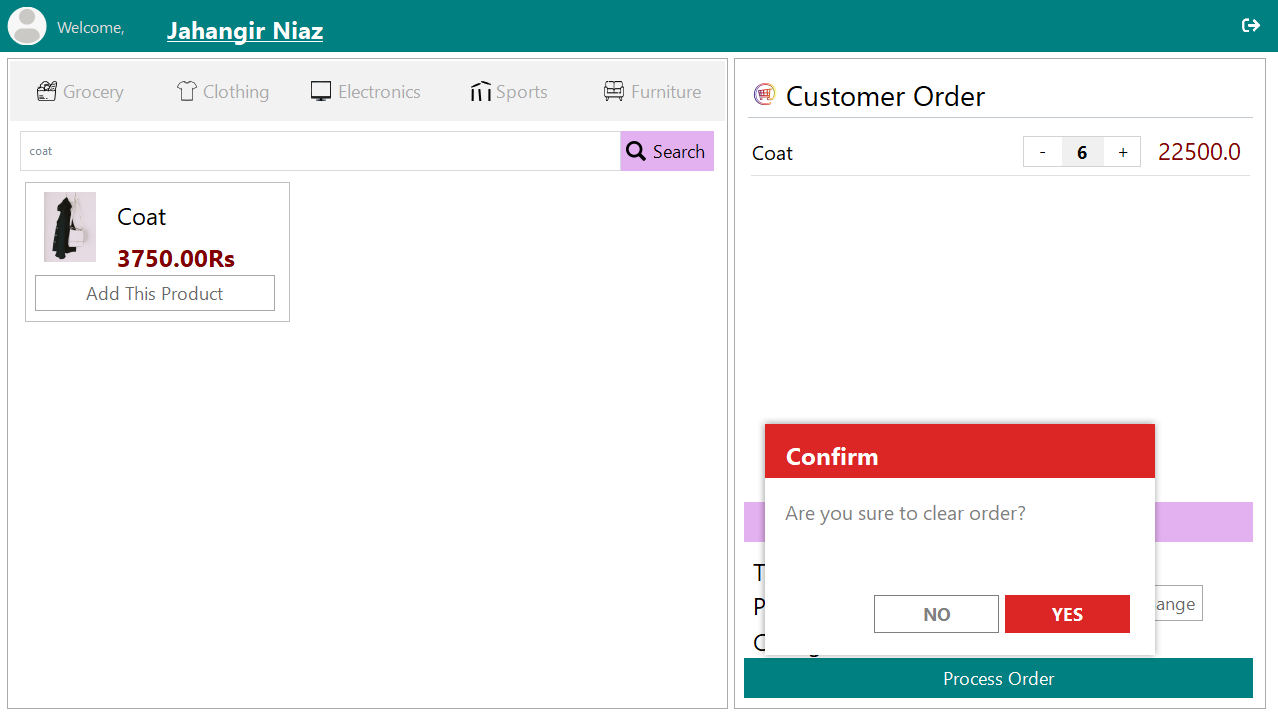
Process Order will generate a receipt which you can print

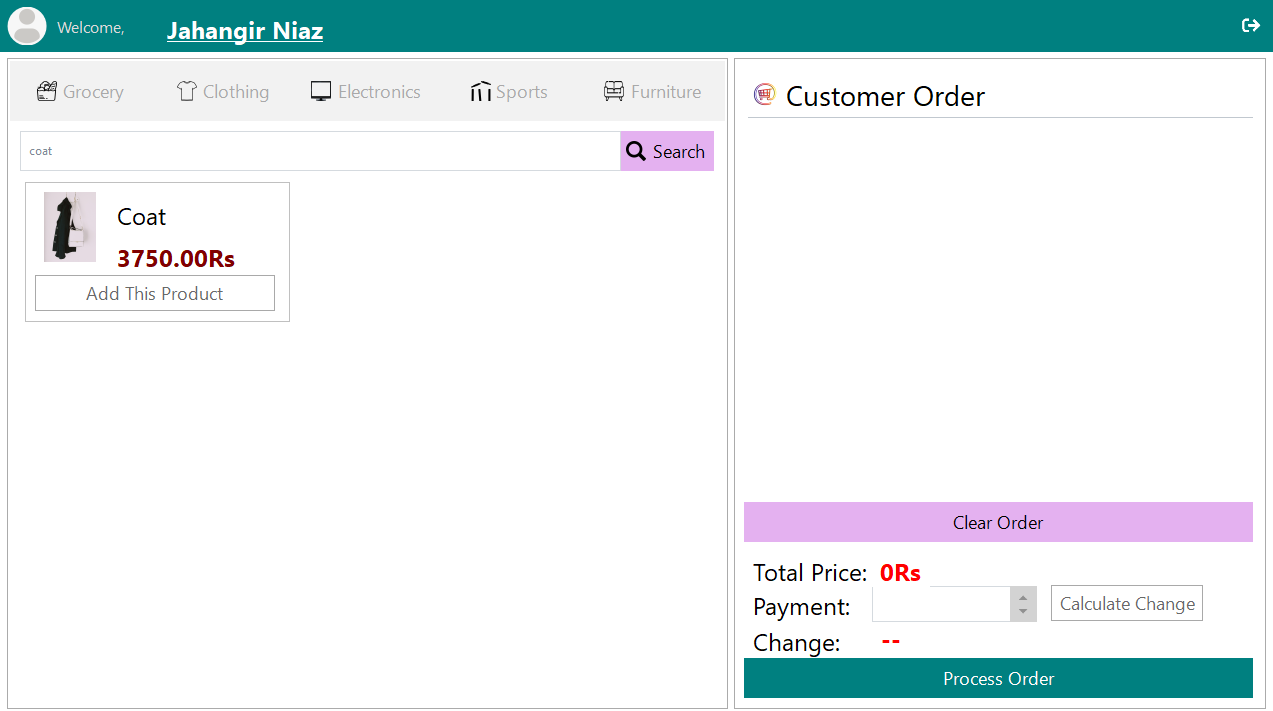


# Searching



# Clear the order





# Editing own info

