



April 28, 2023

RETAIL  
STORE  
SYSTEM

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CUFE



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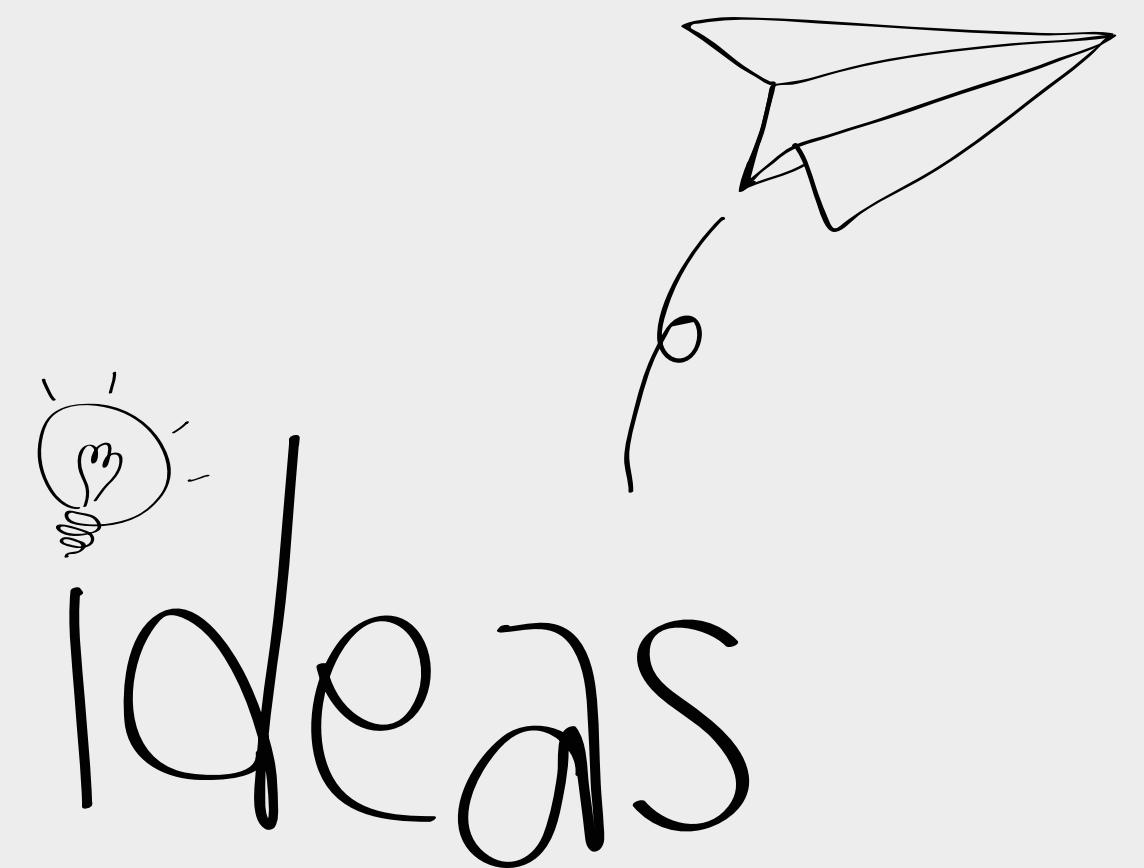
Omar  
El Sawy

# The Team

Presentations are communication tools that can be used as demonstrations, lectures, speeches, reports, and more.

# Introduction

Our project was to search for a problem that faced our community and to find a clear solution for it and after intense brain storming, research and calculation we have reached to a solution



# DECISION MATRIX

Factors	Weight	Mechanical lamp	Food dryer	Retail program	Smart plug
Influence On People	20	6	10	8	9
Cost	20	1	1	10	6
Applicability	20	1	1	10	8
Materials	20	1	1	10	1
Speed	20	1	1	5	2

# DECISION MATRIX

Idea	Score
Mechanical lamp	200
Food dryer	200
Retail program	860
Smart plug	520



**Retail program** has the highest score which indicates that it was the idea we are working on

# Main PROBLEM

-  In Egypt one of the most populated cities in the world and in the eastern region there is a huge demand on grocery and retail stores, in which millions of people buy and sell products daily
-  After a market research we have discovered some problems in retail stores teller systems





# RETAIL STORES TELLER SYSTEMS ARE



01

Incredibly complicated  
(requires a professional)

02

Requires weakly updates  
to fix bugs and issues

03

Very expensive to purchase

04

Requires expensive hardware to run on





# RETAIL STORES TELLER SYSTEMS ARE



05

Doesn't have much  
features

06

# Not connected to the internet

07

Doesn't collect enough  
data

08

# Can't reach to customers



# PROJECT AIM

## Create a



- Simple
- Cheap to buy and use
- User friendly
- Eco Friendly

The system will be able to organize and keep a record of all the retail store transactions and also play a main role in marketing and advertising in addition to helping elders and people with special needs.

.....  
.....

A photograph showing a young woman with blonde hair smiling at an elderly man. The man has a white beard and is wearing a grey cable-knit sweater over a white collared shirt. They appear to be in a shop or store setting with shelves in the background.

# The system provides the ✨ customer with

- An easier way to purchase and a better shopping experience through a user friendly system
- Promotions for the latest offers and deals
- A feature that helps elders and people with special needs
- An electronic receipt that saves their rights and easier to be kept



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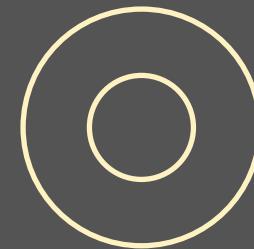
# The system provides the Vendor with

- An organized system that organize their products and its amount
- Free marketing and advertising through E-mail
- Cheaper system Compared to other ones
- Tracking system for the amount of products and give an alert when they need to resupply

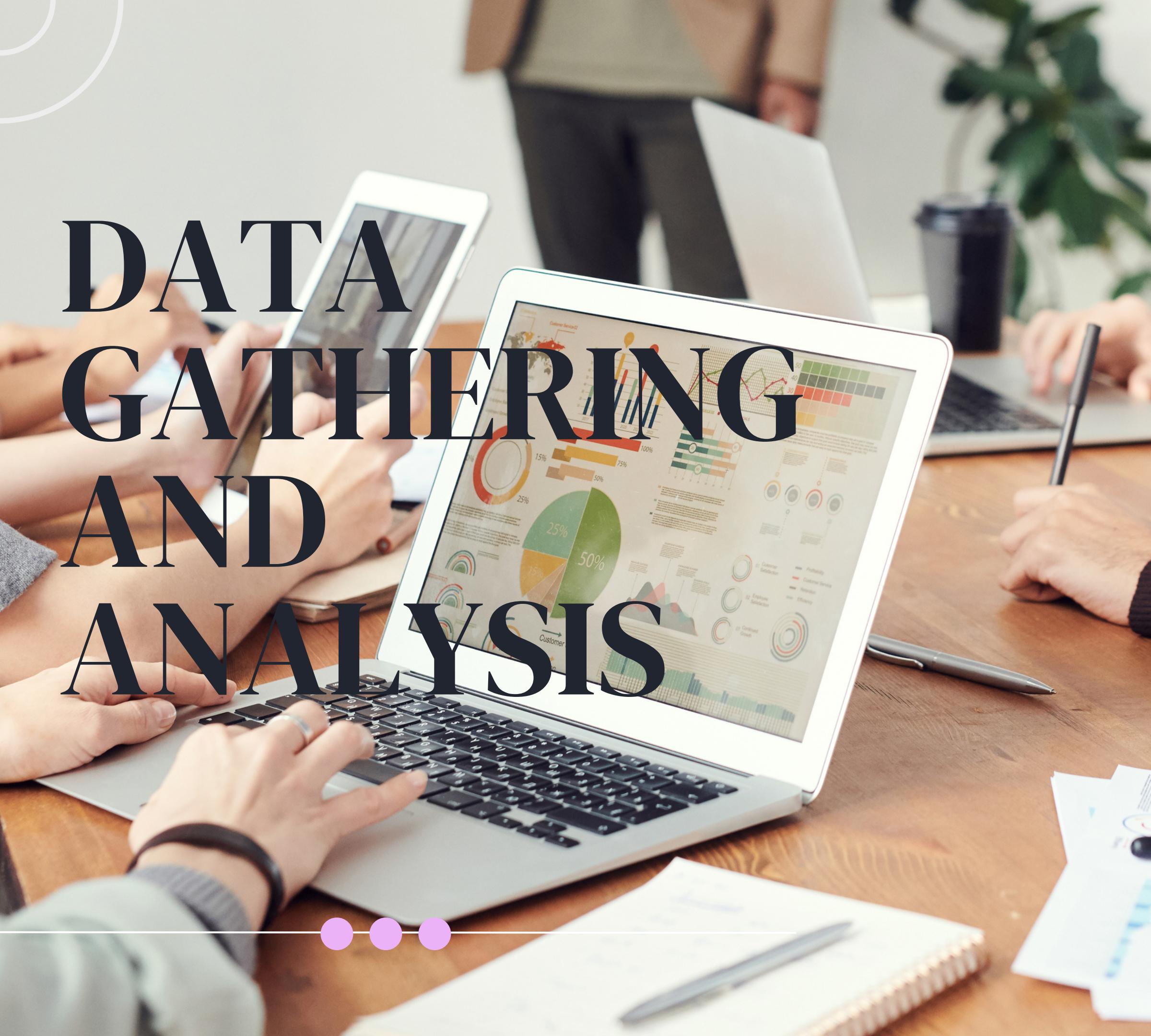
# DATA GATHERING AND ANALYSIS



ACCORDING TO KEARNEY,  
EGYPT'S RETAIL MARKET IS  
ESTIMATED AT AROUND  
**\$200 BILLION** IN 2020 WITH  
EXPECTATIONS FOR  
GROWTH AT AROUND A  
CAGR OF **5%** FROM 2020 TO  
2025 TO REACH **\$254**  
**BILLION**



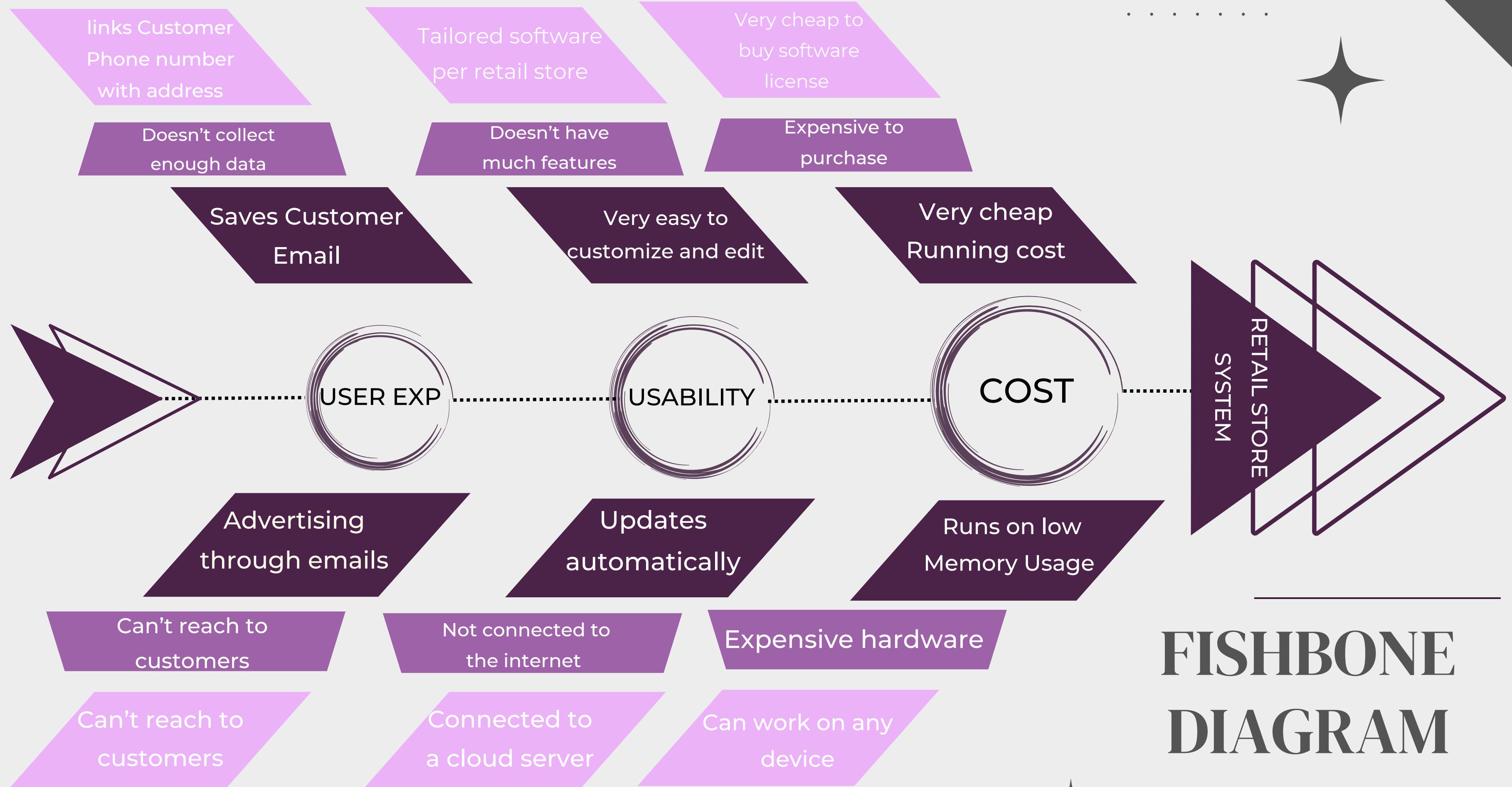
# DATA GATHERING AND ANALYSIS



MODERN RETAIL CHANNELS, SUCH AS SUPERMARKETS, HYPERMARKETS AND CONVENIENCE STORES, HAVE A COMBINED **3,913** OUTLETS AND REPRESENT AROUND **26%** OF TOTAL SALES

# DATA GATHERING AND ANALYSIS

TRADITIONAL GROCERY RETAILERS HAVE 113,724 STORE AND REPRESENT 74% OF TOTAL SALES. SMALL TRADITIONAL GROCERS REMAINS THE DOMINANT RETAIL OUTLET IN EGYPT



# For vendors

# PROGRAM INTERFACE



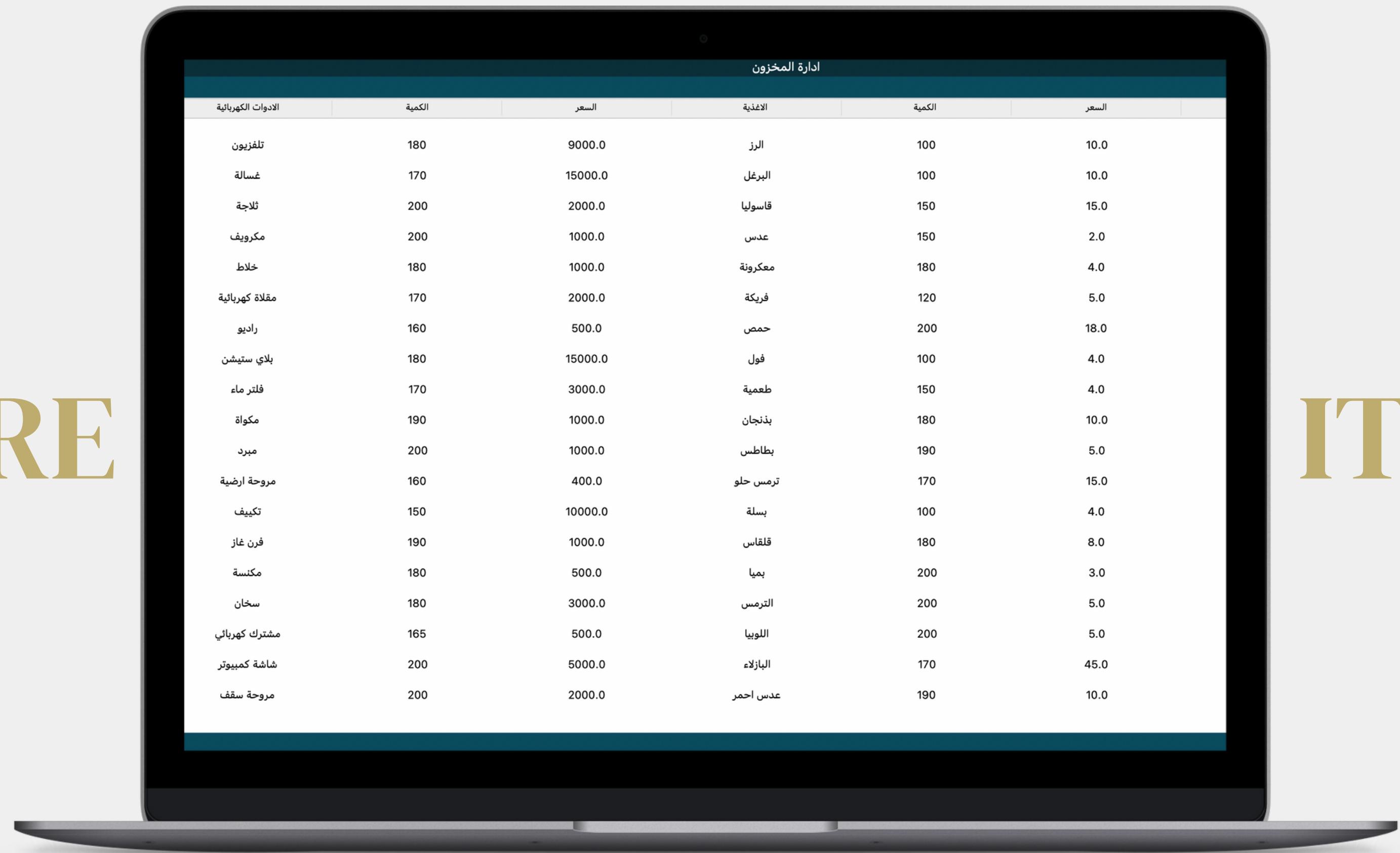
# For Customers



## PROGRAM INTERFACE

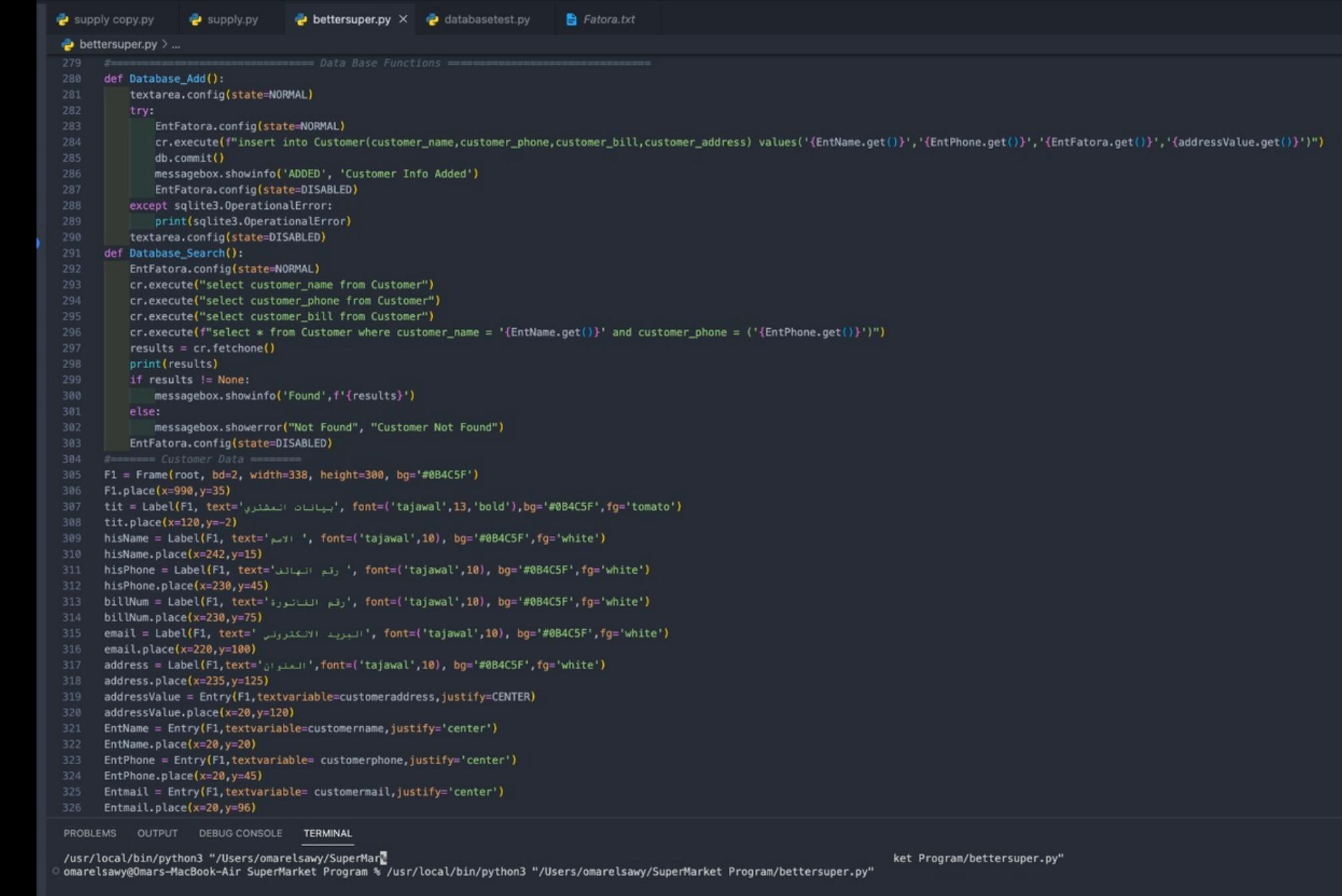
# STORE

# ITEMS



Display an alert message when the quantity of products decrease

# CODING USING PYTHON

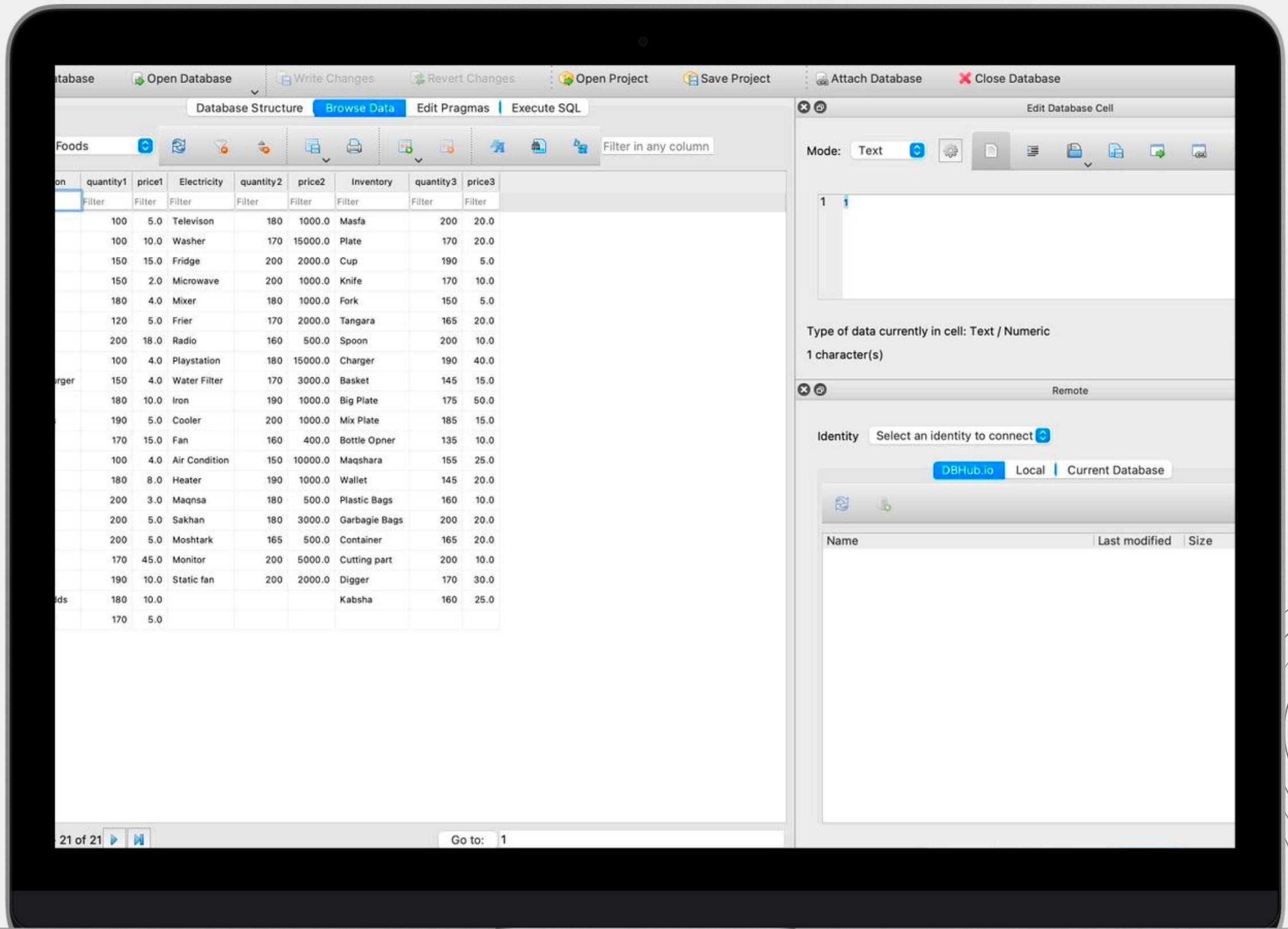


```
supply copy.py supply.py bettersuper.py X database.py Fatora.txt
279 ===== Data Base Functions =====
280 def Database_Add():
281     textArea.config(state=NORMAL)
282     try:
283         EntFatora.config(state=NORMAL)
284         cr.execute(f"insert into Customer(customer_name,customer_phone,customer_bill,customer_address) values('{EntName.get()}','{EntPhone.get()}','{EntFatora.get()}','{addressValue.get()}')")
285         db.commit()
286         messagebox.showinfo('ADDED', 'Customer Info Added')
287         EntFatora.config(state=DISABLED)
288     except sqlite3.OperationalError:
289         print(sqlite3.OperationalError)
290     textArea.config(state=DISABLED)
291 def Database_Search():
292     EntFatora.config(state=NORMAL)
293     cr.execute("select customer_name from Customer")
294     cr.execute("select customer_phone from Customer")
295     cr.execute("select customer_bill from Customer")
296     cr.execute(f"select * from Customer where customer_name = '{EntName.get()}' and customer_phone = '{EntPhone.get()}'")
297     results = cr.fetchone()
298     print(results)
299     if results != None:
300         messagebox.showinfo('Found', f'{results}')
301     else:
302         messagebox.showerror("Not Found", "Customer Not Found")
303     EntFatora.config(state=DISABLED)
304 ===== Customer Data =====
305 F1 = Frame(root, bd=2, width=338, height=300, bg="#0B4C5F")
306 F1.place(x=990,y=35)
307 tit = Label(F1, text='بيانات المشتري', font=('tajawal',13,'bold'),bg="#0B4C5F",fg='tomato')
308 tit.place(x=120,y=-2)
309 hisName = Label(F1, text='الإسم', font=('tajawal',10), bg="#0B4C5F",fg='white')
310 hisName.place(x=242,y=15)
311 hisPhone = Label(F1, text='رقم الهاتف', font=('tajawal',10), bg="#0B4C5F",fg='white')
312 hisPhone.place(x=230,y=45)
313 billNum = Label(F1, text='رقم الفاتورة', font=('tajawal',10), bg="#0B4C5F",fg='white')
314 billNum.place(x=230,y=75)
315 email = Label(F1, text='البريد الإلكتروني', font=('tajawal',10), bg="#0B4C5F",fg='white')
316 email.place(x=220,y=100)
317 address = Label(F1, text='العنوان', font=('tajawal',10), bg="#0B4C5F",fg='white')
318 address.place(x=235,y=125)
319 addressValue = Entry(F1,textvariable=customeraddress,justify=LEFT)
320 addressValue.place(x=20,y=120)
321 EntName = Entry(F1,textvariable=customername,justify='center')
322 EntName.place(x=20,y=20)
323 EntPhone = Entry(F1,textvariable= customerphone,justify='center')
324 EntPhone.place(x=20,y=45)
325 Entmail = Entry(F1,textvariable= customermail,justify='center')
326 Entmail.place(x=20,y=96)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
/usr/local/bin/python3 "/Users/omarelsawy/SuperMarket/bettersuper.py"
omarelsawy@Omars-MacBook-Air SuperMarket Program % /usr/local/bin/python3 "/Users/omarelsawy/SuperMarket Program/bettersuper.py"
```

The Program includes 1500 lines of code in 8 Python files.

# DATABASE



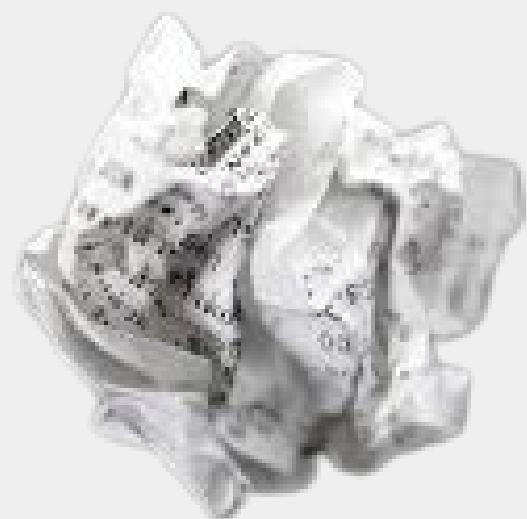
Includes customers contact information

**online service**

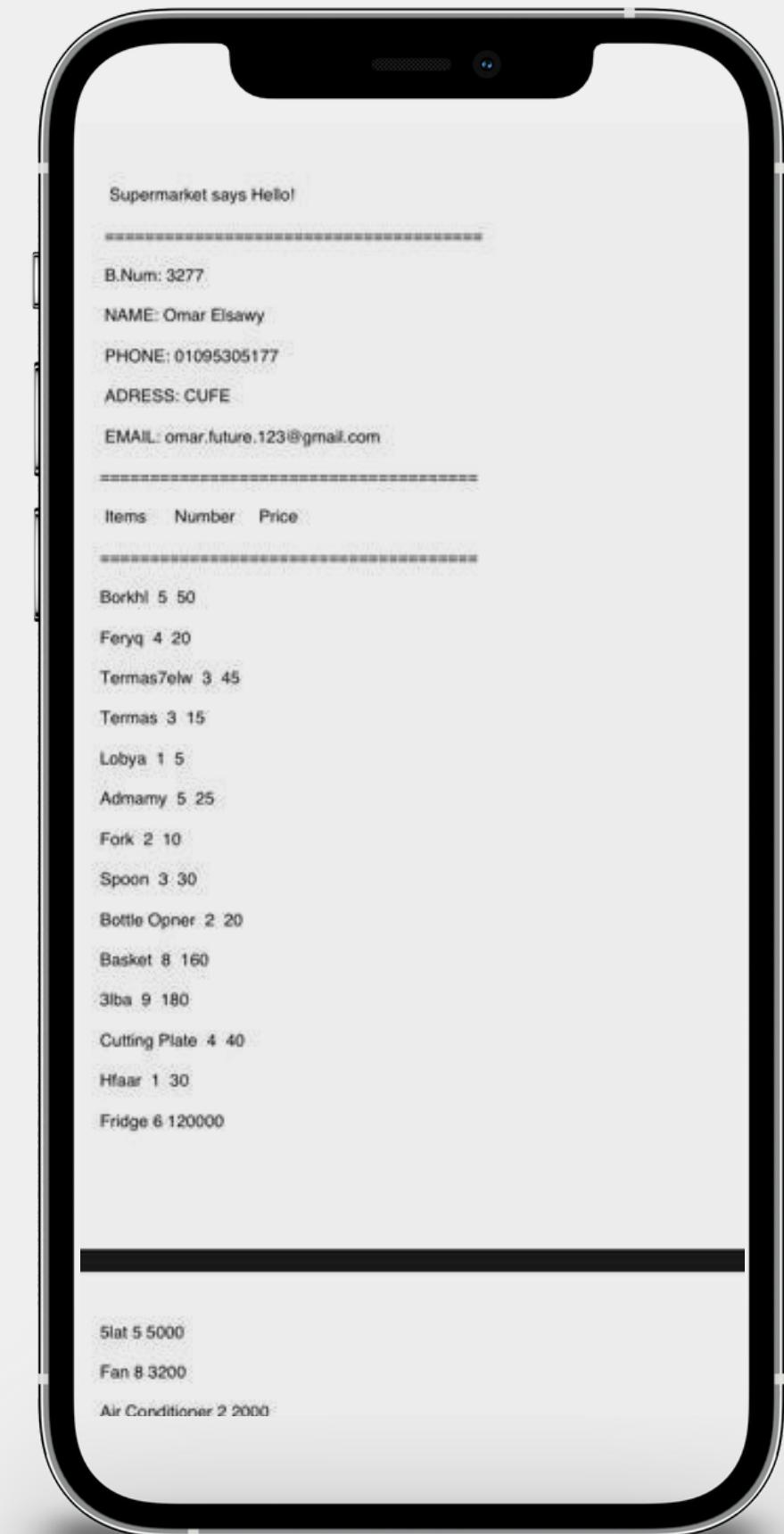


## E-MAIL RECEIPTS

After buying anything you get an email that contains your purchase information



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**01** Detailed receipt of your purchases

**02** The customer's contact information

**03** Promotions, current offers and limited deals

# Cost analysis

## Programs

## Development costs

## Marketing cost

## Annual Support

## Total Price

## Our program

After using alternatives that costs less and making our software sold to many Customers it will costs 350\$

It will cost ads and digital marketing to make Customers aware of the product AVG (50\$)

The annual support will be for free for this first 5 months and then will cost 25\$ per month

$350\$ + 50\$ + 25\$$

425\$

## Other competitors

Under Normal Circumstances the cost will be 1800\$

It will cost ads and digital markting costs 300\$

It costs under normal condition between 200\$ - 400\$

$1800\$ + 300\$ + 300\$$

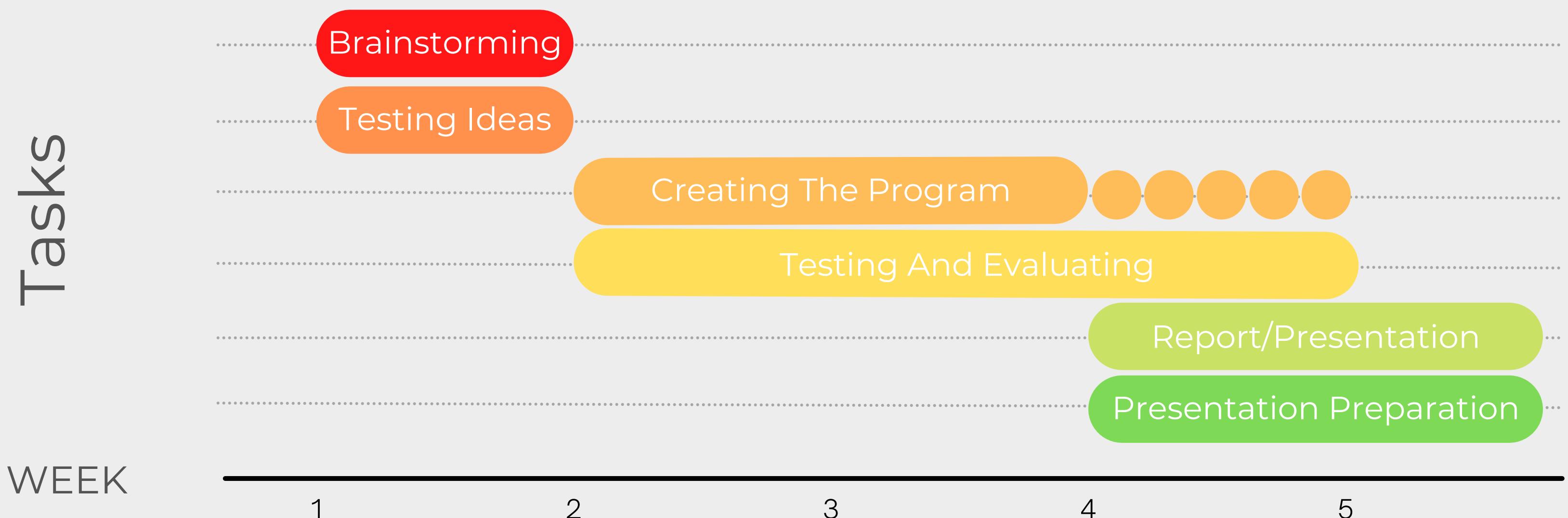
2400\$

# OBJECTIVE PYRAMID



# GANTT CHART (TIME SCHEDULE)

Expected delivery time of each task.



# Tasks & Responsibility

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K = Key responsible

C = Co responsible

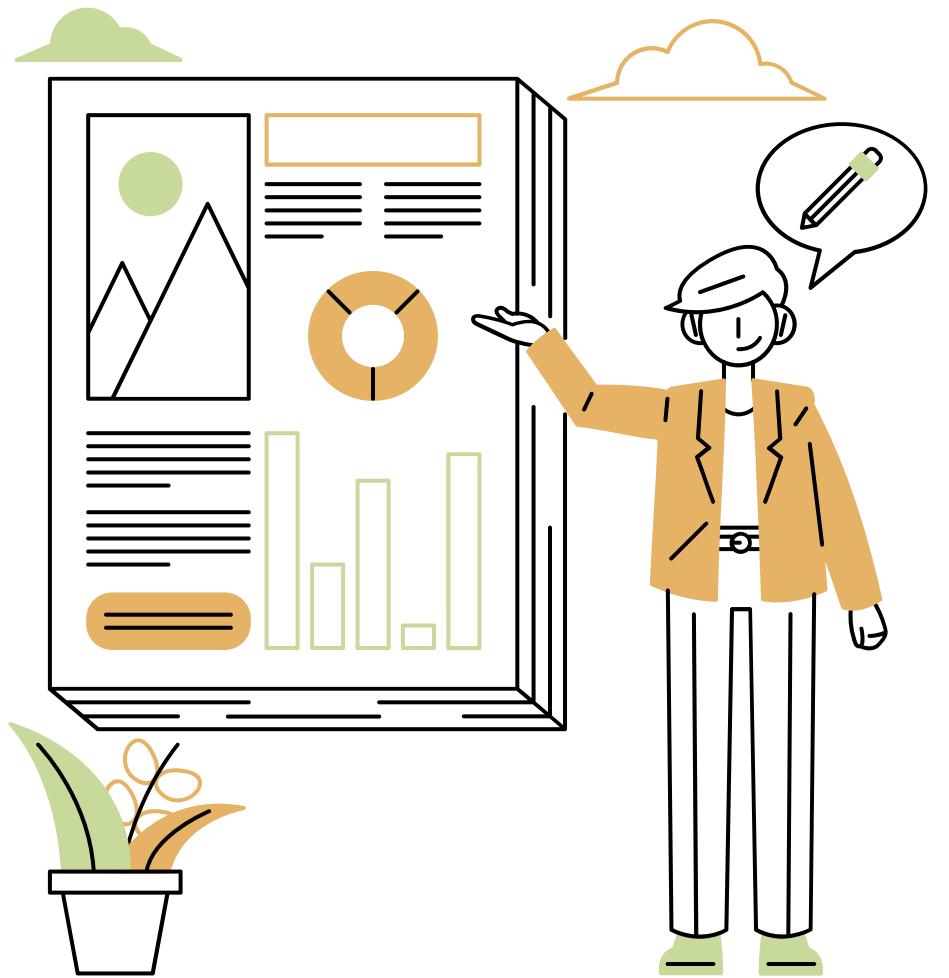
M = Team member

TASKS	OMAR EL SAWY	AHMED EL-REFAIE	ABD EL-RAHMAN HANY
DATA GATHERING	C	K	C
CODE AND SCRIPTS	K	M	M
TESTING AND PROTOTYPING	K	C	M
REPORT WRITING	M	K	K
PRESENTATION EDITING	M	C	K

# Conclusion

The project aims to change people's perspectives about expensive complicated systems and make more people have more interactions with advanced technologies

- The Team created a simple user-friendly system
- An environmentally friendly system
- The main feature of the system is it is extremely reachable to everyone including all retail stores with all economic classes
- Help elders and people with special needs.



**THANK YOU**