



Ain Shams University  
Faculty of Engineering  
Third year – Computers and Systems

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## Introduction

The goal of this document is to clarify the functionality of our Online Marketplace system and its features to the reader by showing different diagrams that describe our system in details. It shows distributed database diagrams, the system architecture and how to use it.

“Shams Store” is our product name. It a software system to handle main market services like searching, purchasing, selling and sharing items.

The document includes the user interface and showing how the user can deal with the system. It also includes screenshots for our system and results of testing of our project.

## Target Beneficiaries of the Project

Anyone who has enough responsibility and control over their money can use this system easily. Including buyers and sellers.

## Adopted Programming Language

### **For the front end:**

HTML, CSS, Bootstrap

### **For the back end:**

Asp.net core framework, MVC

## System Architecture

The **Model-View-Controller (MVC)** is an architectural pattern that separates an application into three main logical components: the **model**, the view, and the controller. Each of these components are built to handle specific development aspects of an application. MVC is one of the most frequently used industry-standard web development framework to create scalable and extensible projects.

### MVC Components

Following are the components of MVC

#### Model

The Model component corresponds to all the data-related logic that the user works with. This can represent either the data that is being transferred between the View and Controller components or any other business logic-related data. For example, a Customer object will retrieve the customer information from the database, manipulate it and update it data back to the database or use it to render data.

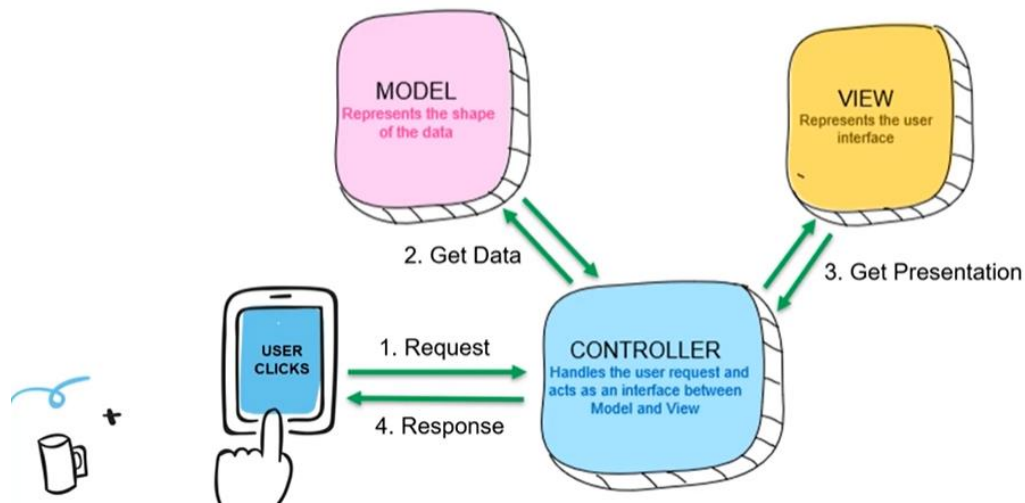
#### View

The View component is used for all the UI logic of the application. For example, the Customer view will include all the UI components such as text boxes, dropdowns, etc. that the final user interacts with.

#### Controller

Controllers act as an interface between Model and View components to process all the business logic and incoming requests, manipulate data using the Model component and interact with the Views to render the final output. For example, the Customer controller will handle all the interactions and inputs from the Customer View and update the database using the Customer Model. The same controller will be used to view the Customer data.

# MVC ARCHITECTURE

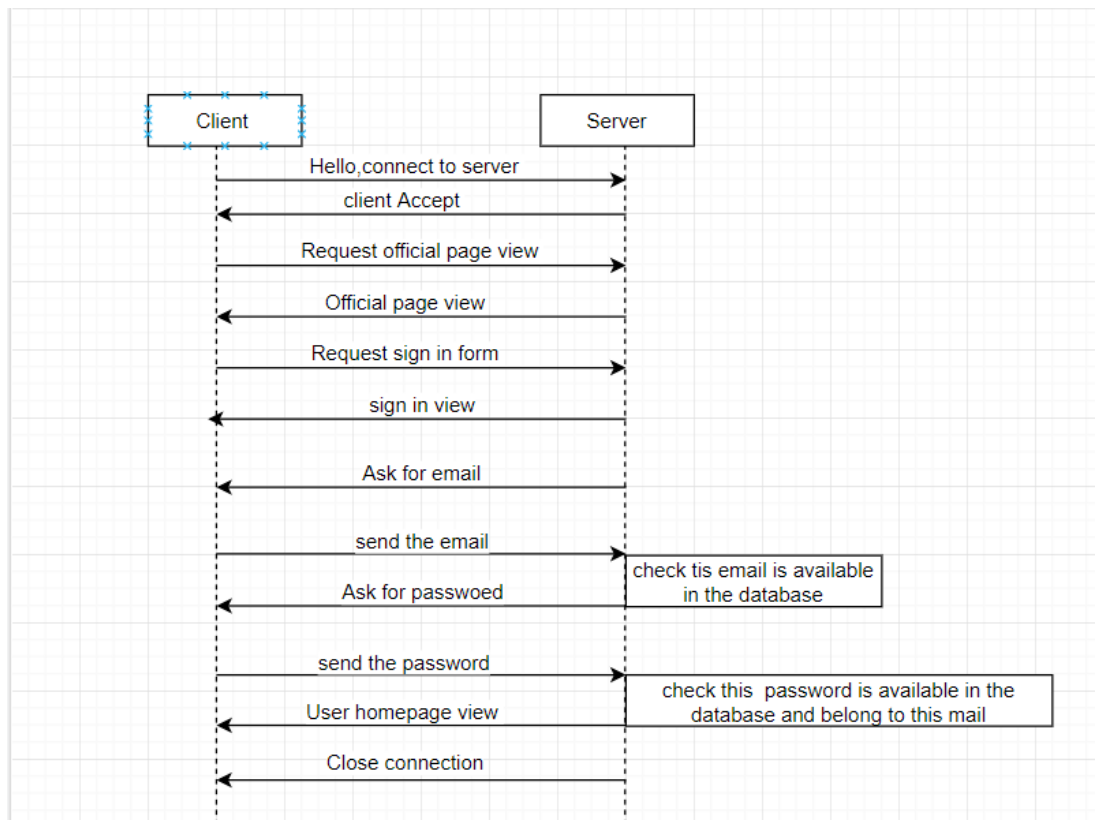


Application Level Protocol

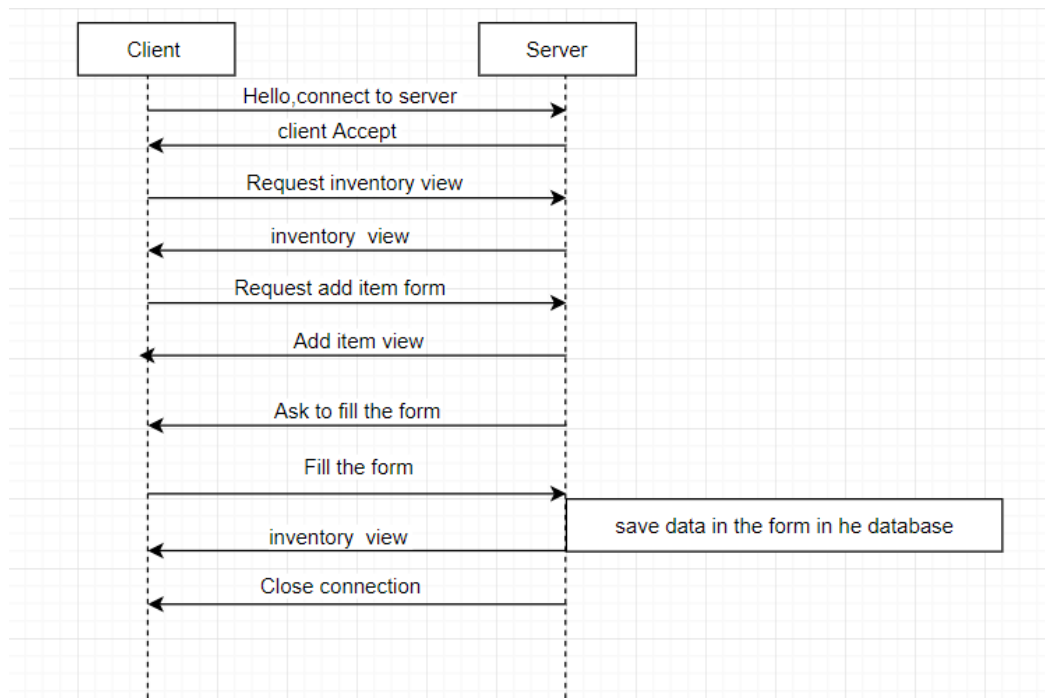
**Link:**

<https://www.diagrameditor.com/webapp/?ui=atlas&tr=0&gh=0&gl=0&gapi=0&od=0&db=0&lang=en#Lalp>.

**First scenario: Login**

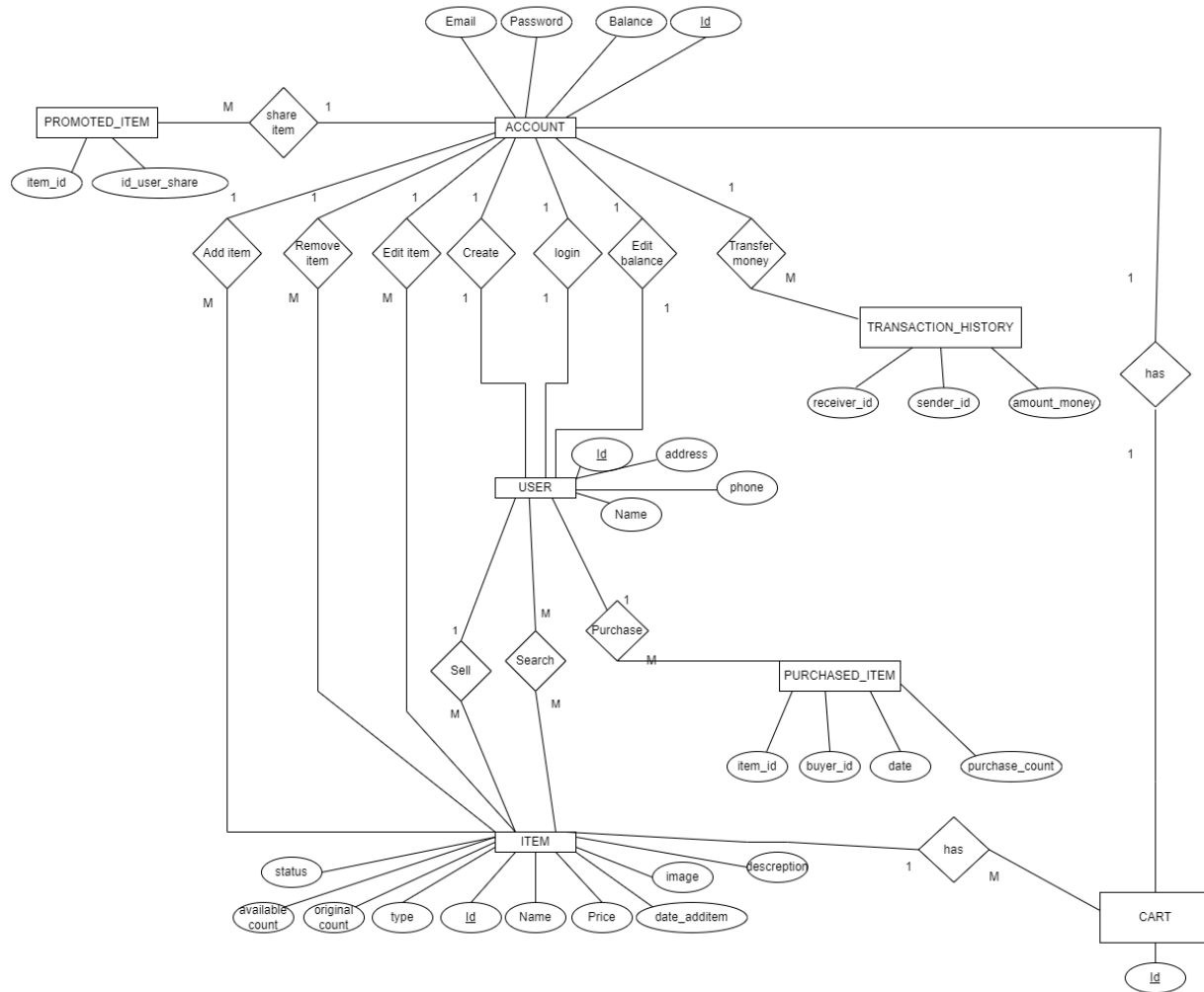


## Second scenario: Add item



# Distributed Database Design

## Entity Relationship Diagram





Server: sql11.freessqldatabase.com » Database: sql11457074 » Table: ACCOUNT

BrowseStructureSQLSearchInsertExportImportOperations

Showing rows 0 - 11 (12 total, Query took 0.1501 seconds.)  

```
SELECT * FROM `ACCOUNT`
```

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options  
← T → ▼ Id Email Pass

<input type="checkbox"/>	Edit Copy Delete	1	ahmed@gmail.com	123
<input type="checkbox"/>	Edit Copy Delete	2	darin@gmail.com	123
<input type="checkbox"/>	Edit Copy Delete	3	nermin@gmail.com	123
<input type="checkbox"/>	Edit Copy Delete	10	nour@gmail.com	nour1
<input type="checkbox"/>	Edit Copy Delete	11	mariam@gmail.com	\$2b\$10\$b/HtSlsrabHNI2lrDFCPdOkvmj.JFIll568uwETApR...
<input type="checkbox"/>	Edit Copy Delete	12	omar@gmail.com	omar1
<input type="checkbox"/>	Edit Copy Delete	13	Maryam@gmail.com	\$2b\$10\$sprU92xqdTsJoo5jyVo/MbOanjYN3jtZNDYHdwL4PnaY...
<input type="checkbox"/>	Edit Copy Delete	14	nehal@gmail.com	\$2b\$10\$U/Yhq8xE0O9ng2C2J1WHuhZWkuXUANvP05wFOI0RAP...
<input type="checkbox"/>	Edit Copy Delete	15	nehal99@gmail.com	\$2b\$10\$ALIFUGJCzWzu4AQg3MILfe.907yeDSQTIwu/pwwkQzo...
<input type="checkbox"/>	Edit Copy Delete	16	nehall@gmail.com	\$2b\$10\$eXzjSHkhUkd0S6hZ0KMPB.AG/6l1iwN2EviiEH5KdlE...
<input type="checkbox"/>	Edit Copy Delete	17	asmaaa@gmail.com	\$2b\$10\$49Dlc1rKoSGMoS9R2lyJuCnGXj9Z.8/uvgdcU/LxbJ...
<input type="checkbox"/>	Edit Copy Delete	18	ellen@gmail.com	\$2b\$10\$XWHUnonllwkIOKD1SXeaYZeSUL3Cl.8V1YE3IKcjdxL...













































✓ Showing rows 0 - 13 (14 total, Query took 0.1820 seconds.)

`SELECT * FROM `ACCOUNT``

☐ Show all
 | Number of rows: 
 Filter rows:

+ Options

				Id	User_Id	Balance
<input type="checkbox"/>	 Edit	 Copy	 Delete	1	1	560
<input type="checkbox"/>	 Edit	 Copy	 Delete	2	2	1000
<input type="checkbox"/>	 Edit	 Copy	 Delete	3	3	2000
<input type="checkbox"/>	 Edit	 Copy	 Delete	10	13	0
<input type="checkbox"/>	 Edit	 Copy	 Delete	11	15	0
<input type="checkbox"/>	 Edit	 Copy	 Delete	12	17	0
<input type="checkbox"/>	 Edit	 Copy	 Delete	13	19	0
<input type="checkbox"/>	 Edit	 Copy	 Delete	14	21	0
<input type="checkbox"/>	 Edit	 Copy	 Delete	15	23	0
<input type="checkbox"/>	 Edit	 Copy	 Delete	16	25	0
<input type="checkbox"/>	 Edit	 Copy	 Delete	17	4	0
<input type="checkbox"/>	 Edit	 Copy	 Delete	18	6	0
<input type="checkbox"/>	 Edit	 Copy	 Delete	19	27	0
<input type="checkbox"/>	 Edit	 Copy	 Delete	20	29	0

## 2- User schema:

We used horizontal fragmentation in the user schema as shown in the following figures:

← Server: sql10.freessqlatabase.com » Database: sql10457067 » Table: USER

Browse

Structure

SQL

Search

Insert

Export

✓ Showing rows 0 - 10 (11 total, Query took 0.1824 seconds.)

SELECT \* FROM `USER`

☐ Show all

Number of rows: 25 ▾

Filter rows:

+ Options

				Id	Name	Phone	Address
<input type="checkbox"/>	Edit	Copy	Delete	1	ahmed	1018952331	el shrouk
<input type="checkbox"/>	Edit	Copy	Delete	3	nermeen	1018952321	cairo
<input type="checkbox"/>	Edit	Copy	Delete	13	nour	1018952322	cairo
<input type="checkbox"/>	Edit	Copy	Delete	15	mariam	1018952333	shobra
<input type="checkbox"/>	Edit	Copy	Delete	17	omar	1018952111	cairo
<input type="checkbox"/>	Edit	Copy	Delete	19	mary	1018952111	alex
<input type="checkbox"/>	Edit	Copy	Delete	21	nehal	1018952156	4 italy street
<input type="checkbox"/>	Edit	Copy	Delete	23	nehaltany	1018852111	4 italy street
<input type="checkbox"/>	Edit	Copy	Delete	25	nehall	1017952111	4 italy street
<input type="checkbox"/>	Edit	Copy	Delete	27	mohamed	1010555	Cairo Egypt
<input type="checkbox"/>	Edit	Copy	Delete	29	mai	1550152668	egypt

Server: sql11.freessqldatabase.com » Database: sql11457074 » Table: USER

[Browse](#) [Structure](#) [SQL](#) [Search](#) [Insert](#) [Export](#) [Import](#)

✓ Showing rows 0 - 2 (3 total, Query took 0.1505 seconds.)

`SELECT * FROM `USER``

☐ Show all | Number of rows:  Filter rows:  [Scroll to top](#)

+ Options

<div><div><div></div><div></div><div></div></div></div>				<div>Id</div>	<div>Name</div>	<div>Phone</div>	<div>Address</div>
<div><div><div></div></div></div>	<div><div><div></div></div><div>Edit</div></div>	<div><div><div></div></div><div>Copy</div></div>	<div><div><div></div></div><div>Delete</div></div>	<div>2</div>	<div>Darin</div>	<div>0</div>	<div>italy street</div>
<div><div><div></div></div></div>	<div><div><div></div></div><div>Edit</div></div>	<div><div><div></div></div><div>Copy</div></div>	<div><div><div></div></div><div>Delete</div></div>	<div>4</div>	<div>Asmaa</div>	<div>0</div>	<div>omar zaafan</div>
<div><div><div></div></div></div>	<div><div><div></div></div><div>Edit</div></div>	<div><div><div></div></div><div>Copy</div></div>	<div><div><div></div></div><div>Delete</div></div>	<div>6</div>	<div>Ellen</div>	<div>10105522</div>	<div>Cairo Egypt</div>

### 3- Cart schema:

We used horizontal fragmentation in the cart schema as shown in the following figures:

Server: sql10.freessqldatabase.com » Database: sql10457067 » Table: CART

Browse

Structure

SQL

Search

Insert

Export

Showing rows 0 - 7 (8 total, Query took 0.1820 seconds.)

SELECT \* FROM `CART`

☐ Show all

Number of rows: 25

Filter rows: Search this table

Options

					Id	Item_Id	Account_Id	Item_Count
<input type="checkbox"/>	Edit	Copy	Delete		1	7	1	1
<input type="checkbox"/>	Edit	Copy	Delete		3	19	3	1
<input type="checkbox"/>	Edit	Copy	Delete		5	13	3	1
<input type="checkbox"/>	Edit	Copy	Delete		7	29	1	0
<input type="checkbox"/>	Edit	Copy	Delete		9	29	1	0
<input type="checkbox"/>	Edit	Copy	Delete		11	27	1	0
<input type="checkbox"/>	Edit	Copy	Delete		13	27	1	0
<input type="checkbox"/>	Edit	Copy	Delete		15	39	1	1

← Server: sql11.freessqlatabase.com » Database: sql11457074 » Table: CART














 Browse  Structure  SQL  Search  Insert  Export

✓ Showing rows 0 - 3 (4 total, Query took 0.1509 seconds.)

`SELECT * FROM `CART``

☐ Show all | Number of rows: 25  Filter rows:

+ Options

					Id	ITEM_Id	Account_Id	ITEM_Count
<input type="checkbox"/>	 Edit	 Copy	 Delete		2	1	2	1
<input type="checkbox"/>	 Edit	 Copy	 Delete		4	5	2	2
<input type="checkbox"/>	 Edit	 Copy	 Delete		6	1	2	1
<input type="checkbox"/>	 Edit	 Copy	 Delete		8	1	2	1

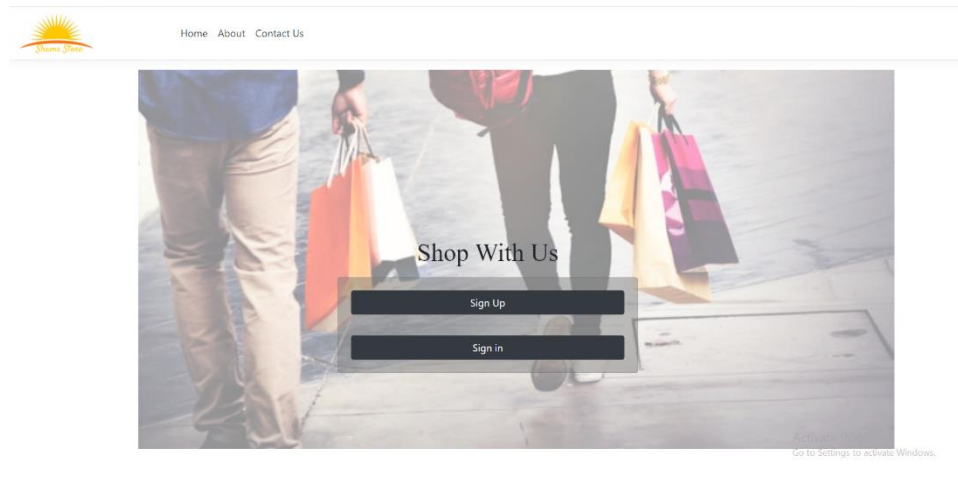
## Time Plane

Task	From	To
Searching phase	30/10/2021	5/11/2021
Designing the ER diagram	6/11/2021	10/11/2021
Designing the database	11/11/2021	13/11/2021
Designing the website	14/11/2021	17/11/2021
Midterm break	18/11/2021	27/11/2021
Learning phase (to deal with distributed database)	28/11/2021	30/11/2021
Learning phase (ASP.NET)	28/11/2021	30/11/2021
Making online servers and making distributed database tables	1/12/2021	3/12/2021
Making the front end for all the pages in our website	1/12/2021	3/12/2021
Making the functions that can deal with the distributed database	1/12/2021	7/12/2021
Working on our backend of the website	5/12/2021	9/12/2021
Making report and taking screenshots	8/12/2021	10/12/2021

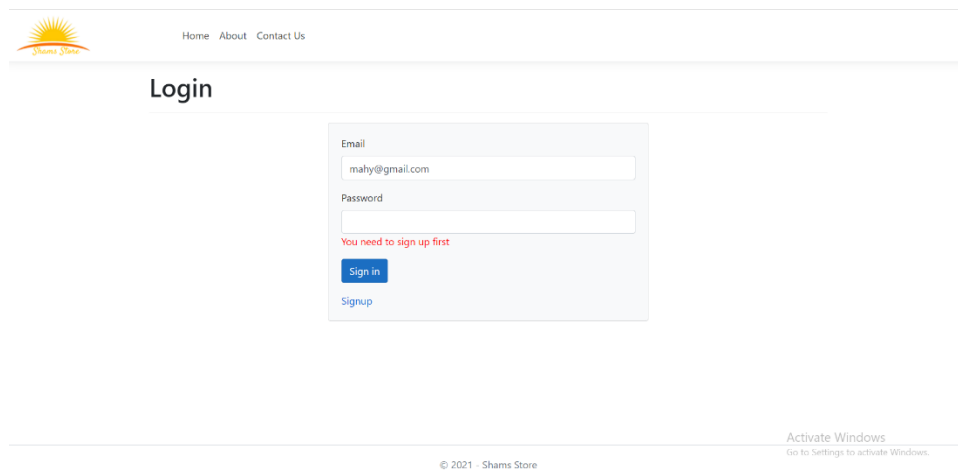


# Testing

1-First the official page will open to the user



2-The user will click on login button



An error will occurs due to that this user did not sign up first

2-The user will click on sign in

## Signup

Name

Phone

Email

Password


ConfirmPassword

Address

[Create](#)

Activate Windows  
Go to Settings to activate Windows.

### 3-After signup the main page will open

Main Profile Inventory Dashboard Cart[Log out](#)

**Shoes**  
[Show Items](#)

**Food**  
[Show Items](#)

**Clothes**  
[Show Items](#)

**Bag**  
[Show Items](#)

**Toys**  
[Show Items](#)

**Electronics**  
[Show Items](#)

**Furniture**  
[Show Items](#)

**Carpets**  
[Show Items](#)

**Curtains**  
[Show Items](#)

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Activate Windows  
Go to Settings to activate Windows.

If the user is already sign up and try to sign up again

1-An error will occurs and the user will click on login

## Signup

Name

Phone

Email

Password

ConfirmPassword

Address

[Create](#)

You have already signed up [Login here](#)

[Back](#)

Activate Windows  
Go to Settings to activate Windows.

2-the user enters his email and password to login



## Login

Email

Password

Sign in

Signup

3-the user enters wrong password an error will occurs



## Login

Email

Password

wrong password

Sign in

Signup

4-the user enters the correct password will be directed to the main page



<b>Shoes</b> <a href="#">Show Items</a>	<b>Food</b> <a href="#">Show Items</a>	<b>Clothes</b> <a href="#">Show Items</a>
<b>Bag</b> <a href="#">Show Items</a>	<b>Toys</b> <a href="#">Show Items</a>	<b>Electronics</b> <a href="#">Show Items</a>
<b>Furniture</b> <a href="#">Show Items</a>	<b>Carpets</b> <a href="#">Show Items</a>	<b>Curtains</b> <a href="#">Show Items</a>

The Inventory list after the user edited the price of item "heals" and deleted the first item which was Nike

## My Inventory List

Your proposed items for sale...

Name	Category	Available Count	Original Count	Image	Description	Price	Date
Heals	Shoes	7	7	/avatar/default.png	7 cm height	300	1/1/0001 12:00:00 AM
Steak	Food	5	5	/avatar/default.png	Delectious	200	1/1/0001 12:00:00 AM

Add Item

Delete Item

### If you want to edit an item


Item Name

Choose Item:



Edit

## 1.owner page


Main Profile Inventory Dashboard CartLog out

### NikeMen

share

owner: ahmed  
Type: Shoes  
price: 800  
Discription: original

add to cart




### Chair

share

owner: ahmed  
Type: Furniture  
price: 150  
Discription: leather chair

add to cart




### Crocs

share

owner: ahmed  
Type: Shoes  
price: 800  
Discription: Original

add to cart




### Hp

share

owner: ahmed  
Type: Electronics  
price: 18000  
Discription: Core i7, Ram 12GB

add to cart




### Boots

share

shared item  
owner: nermeen  
Type: Shoes  
price: 350  
Discription: We have Black and Brown

add to cart



share

owner: ahmed  
Type: Shoes  
price: 800  
Discription: original

add to cart



share

owner: ahmed  
Type: Furniture  
price: 150  
Discription: leather chair

add to cart



share

owner: ahmed  
Type: Shoes  
price: 800  
Discription: Original

add to cart



share

owner: ahmed  
Type: Electronics  
price: 18000  
Discription: Core i7, Ram 12GB

add to cart



share

shared item  
owner: nermeen  
Type: Shoes  
price: 350  
Discription: We have Black and Brown

add to cart



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## 2.Deposit page



Current Balance: 560 \$

How much money?

Haven't added visa/credit card?

Deposit



Current Balance: 600 \$

How much money?

Haven't added visa/credit card?

Deposit



## Account Settings

**Name**

nermeen

[Edit](#)

**Email**

nermin@gmail.com

[Edit](#)

**Phone**

1018952321

[Edit](#)

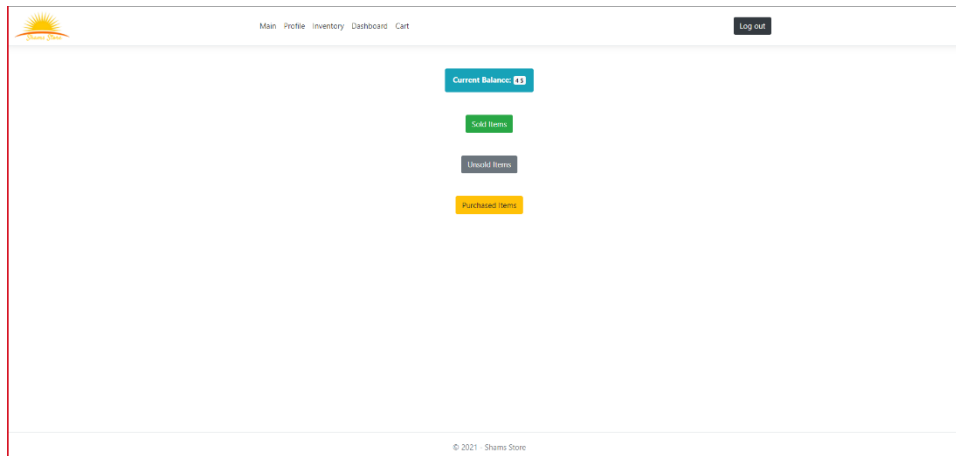
**Address**

cairo

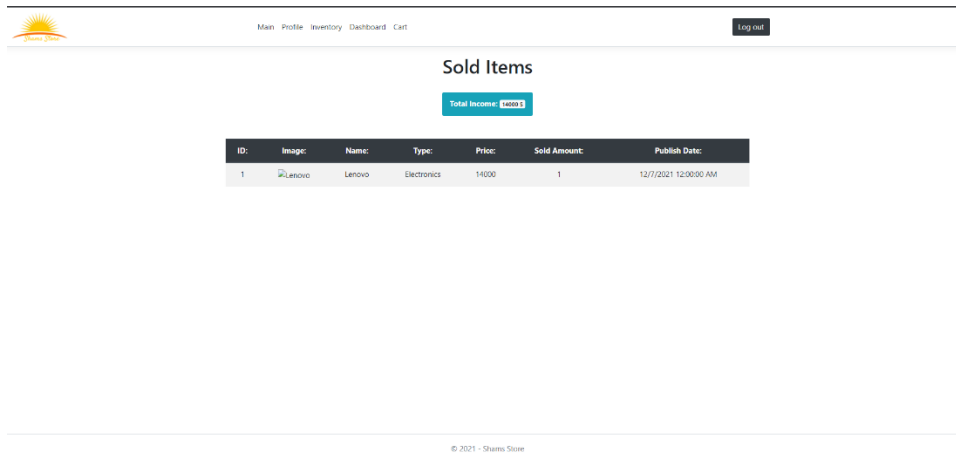
[Edit](#)

## Heba

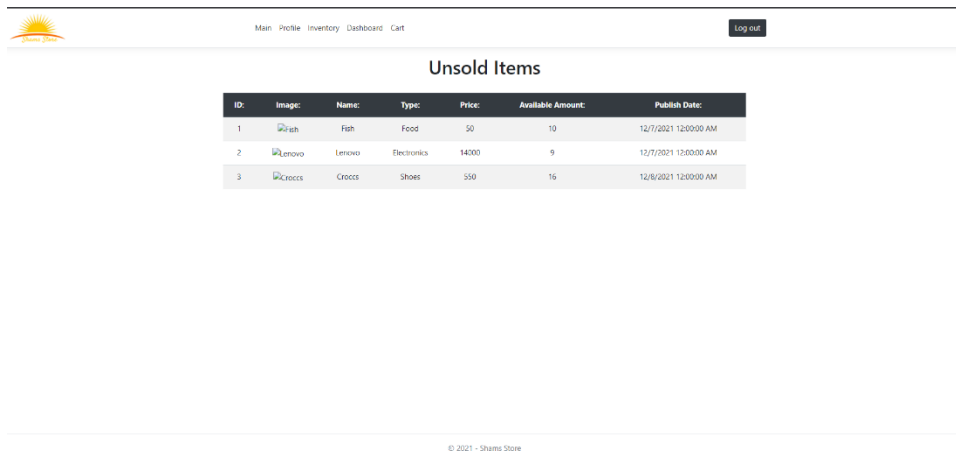
When clicking Dashboard in the nav bar this is the view to the user from which he can go to sold items page, unsold items page, and purchased items page



Show the sold items that he has sold using the website and total benefit



Show unsold items of the items that the user has added to the website





User shows his purchased items with the total spent money


Shams Store

Not secure | https://localhost:4326/Item/Item

AppsCSS0DSWriting READMEs [...]ML-CSS0GPSeniorIntroduction to Disc...Deep Learning | Co...In ProgressAnime


Other bookmarksReading list

Update

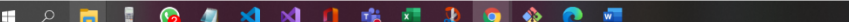
MainProfileInventoryDashboardCartLog out

## Purchased Items

Total Spent: 14000 \$

ID:	Image:	Name:	Type:	Price:	Purchased Amount:	Purchased Date:
1		Lenovo	Electronics	14000	1	12/7/2021 12:00:00 AM

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17°C Clear

11:56 PM  
12/10/2021



## Account Settings

<b>Name</b> nehal	<a href="#">Edit</a>
<b>Email</b> nehal@gmail.com	<a href="#">Edit</a>
<b>Phone</b> 1018952156	<a href="#">Edit</a>
<b>Address</b> 4 italy street	<a href="#">Edit</a>
<b>Balance</b> 0	<a href="#">Deposit cash</a>



## Change your email address

Enter the new email address you would like to associate with your account below. Be sure to click the **Save Changes** button when you are done.

### New email address

[Save Changes](#)



## Account Settings

**Name**

nehal

[Edit](#)

**Email**

nehal1@gmail.com

[Edit](#)

**Phone**

1018952156

[Edit](#)

**Address**

4 italy street





[Edit](#)

**Balance**

0

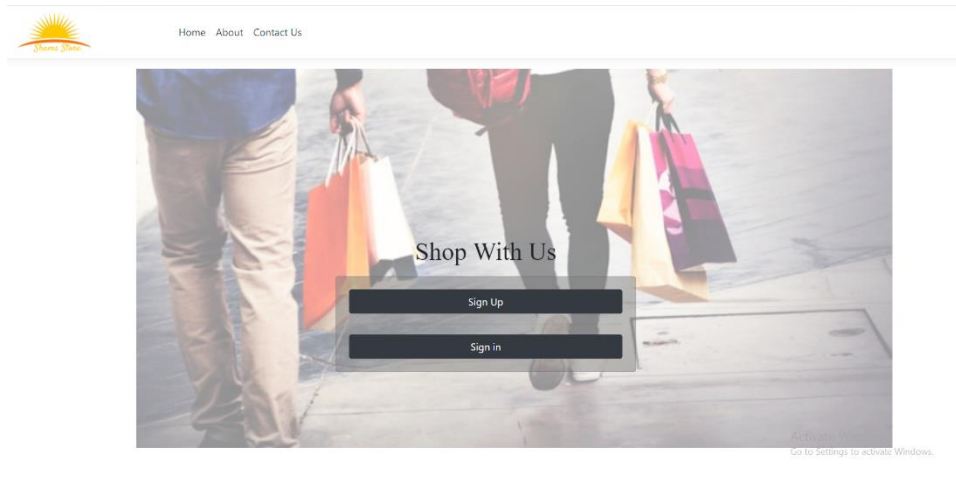
[Deposit cash](#)

## Shopping Cart

	<p><b>NikeMen</b> Description:original Price: 800</p> <p>Qty: <input type="text" value="1"/> <a href="#">Remove</a></p>	<p>Total Price: L.E 2350 Number of items: 4</p> <p><a href="#">Proceed to Checkout</a></p>
	<p><b>Chair</b> Description:leather chair Price: 150</p> <p>Qty: <input type="text" value="2"/> <a href="#">Remove</a></p>	<p>Balance: L.E 1000</p> <p><a href="#">Deposit Cash</a></p>
	<p><b>NikeMen</b> Description:original Price: 800</p> <p>Qty: <input type="text" value="1"/> <a href="#">Remove</a></p>	
	<p><b>NikeMen</b> Description:original Price: 800</p> <p>Qty: <input type="text" value="1"/> <a href="#">Remove</a></p>	

# End User Guide

## 1-Homepage



## 2-Click on signup to signup

Signup

Name	<input type="text" value="mahy"/>
Phone	<input type="text" value="0158426984"/>
Email	<input type="text" value="mahy@gmail.com"/>
Password	<input type="password" value="*****"/>
ConfirmPassword	<input type="password" value="*****"/>
Address	<input type="text" value="Cairo Egypt"/>
	<input type="button" value="Create"/>

Activate Windows  
Go to Settings to activate Windows.

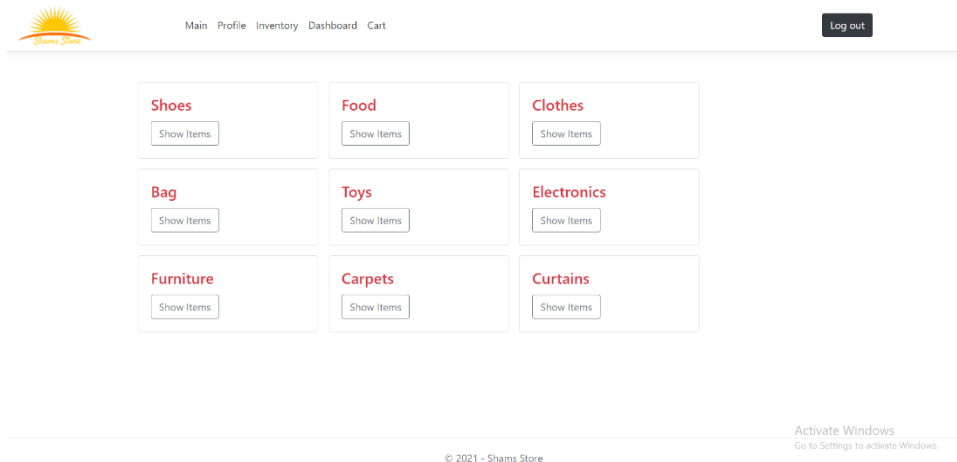
## 3-fill this form then click create

## 4- To login click login

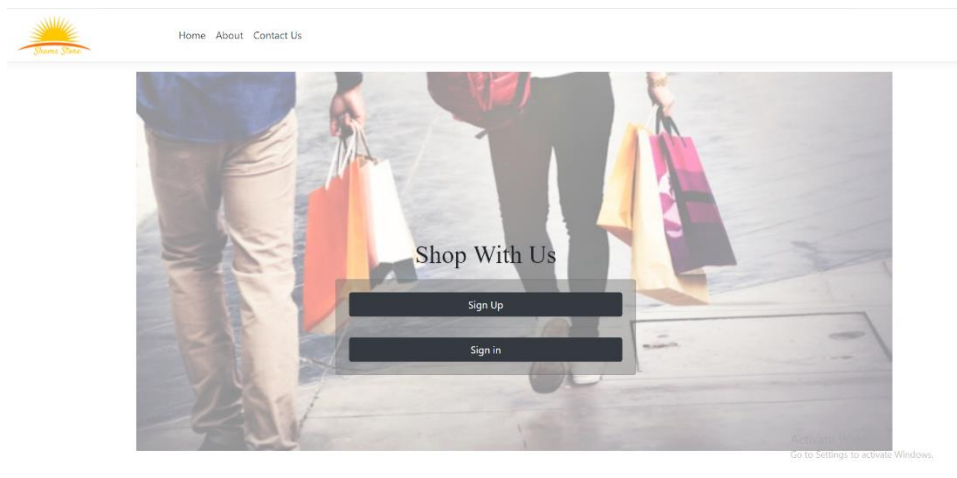


Insert your email and password then click sign in

5-in both cases the main page will open



6-if you want to contact us click on contact us in the navigation bar from this page



7-fill this form

Shams Store

Home About Contact Us

### Contact Us

Your name:

Email:

Subject:

Message:

send message

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Activate Windows  
Go to Settings to activate Windows.

8- if you want to know about us click on about us in the navigation bar from this page



Shop With Us

Sign Up

Sign in

## About us

We are an online marketplace existing since 2012. Either you want to buy or sell your products, your experience with us will be better. Our goal is to your energy. Just click and let us do the rest.

© 2021 - Shams Store

Activate Windows

Go to settings to activate Windows.

1- Inventory list of a user after he adds 1 item

## My Inventory List

Your proposed items for sale...

Name	Category	Available Count	Original Count	Image	Description	Price	Date
------	----------	-----------------	----------------	-------	-------------	-------	------

You have no items yet

Add Item

Delete Item

### If you want to edit an item

Item Name

Choose Item:



Edit

2- When the user clicks on Add Item button in Inventory he gets this form to fill

## My Inventory List

Your proposed items for sale...

Name	Category	Available Count	Original Count	Image	Description	Price	Date
Nike	Shoes	5	5	/images/items//images/item.png	Sizes from 37 to 40	550	12/10/2021 12:00:00 AM

Add Item

Delete Item

### If you want to edit an item

Item Name


Choose Item:



Edit

3- When the user clicks on Add Item button in Inventory he gets this form to fill

## 1. owner page


Main Profile Inventory Dashboard CartLog out

### NikeMen

share

owner: ahmed  
Type: Shoes  
price: 800  
Discription: original

add to cart




### Chair

share

owner: ahmed  
Type: Furniture  
price: 150  
Discription: leather chair

add to cart




### Crocs

share

owner: ahmed  
Type: Shoes  
price: 800  
Discription: Original

add to cart




### Hp

share

owner: ahmed  
Type: Electronics  
price: 18000  
Discription: Core i7, Ram 12GB

add to cart




### Boots

share


shared item  
owner: nermeen  
Type: Shoes  
price: 350

add to cart



- In this page we show item for specific owner, which user click on his items.
- So, if you want to share his item in your store you can click on share button.
- So, if you want to add his item in your cart you can click on share add to cart.

## 2. Deposit page

Main Profile Inventory Dashboard CartLog out

Current Balance: 560 \$

How much money?

Haven't added visa/credit card?

Deposit

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Current Balance: 600 \$

How much money?

[Haven't added visa/credit card?](#)

Deposit



## Account Settings

Name

nermeen

Edit

Email

nermin@gmail.com

Edit

Phone

1018952321

Edit

Address

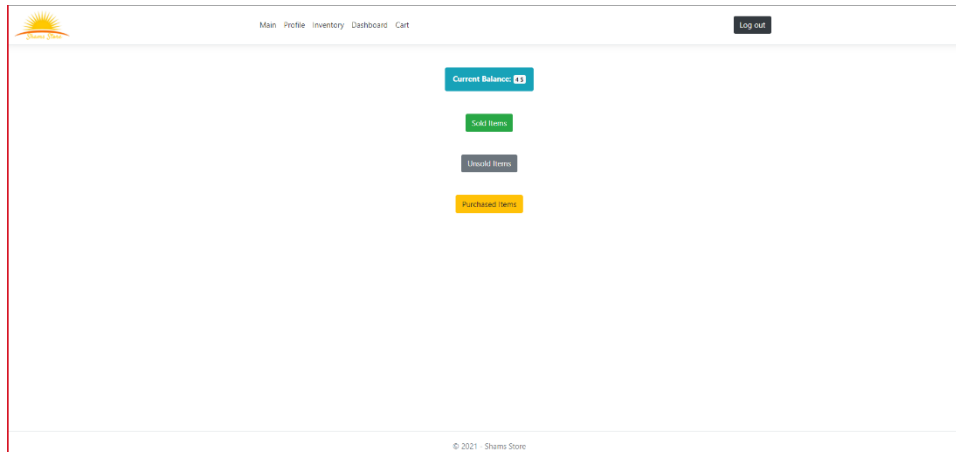
cairo

Edit

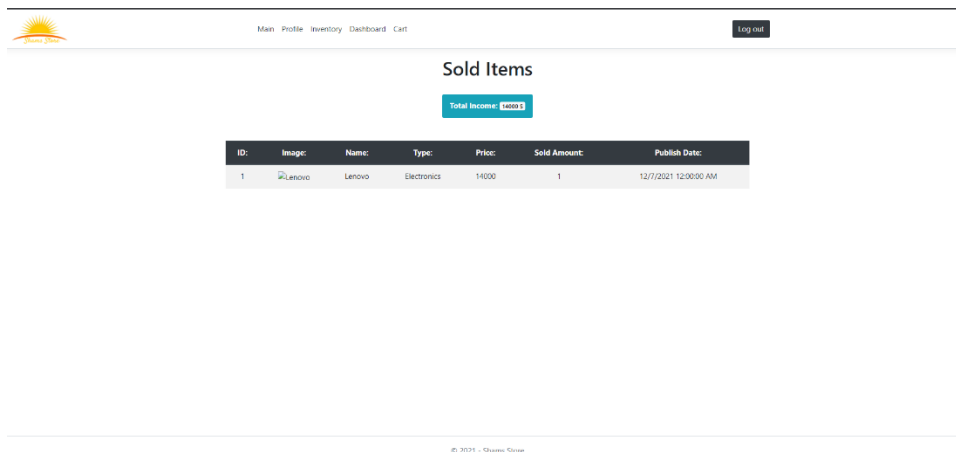
- In this page if you need to add money to your account from credit card.
- If you don't have credit card you can add one by, click on edit credit card to go to profile.
- If you have credit card you can add money by, put number and click deposit.

Heba


When clicking Dashboard in the nav bar this is the view to the user from which he can go to sold items page, unsold items page, and purchased items page



Show the sold items that he has sold using the website and total benefit






Show unsold items of the items that the user has added to the website



[Main](#)
[Profile](#)
[Inventory](#)
[Dashboard](#)
[Cart](#)

Log out

### Unsold Items

ID	Image	Name	Type	Price	Available Amount	Publish Date
1		Fish	Food	50	10	12/7/2021 12:00:00 AM
2		Lenovo	Electronics	14000	9	12/7/2021 12:00:00 AM
3		Crocs	Shoes	550	16	12/8/2021 12:00:00 AM

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User shows his purchased items with the total spent money


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[Main](#)
[Profile](#)
[Inventory](#)
[Dashboard](#)
[Cart](#)

Log out

### Purchased Items

Total Spent: 14000 \$

ID	Image	Name	Type	Price	Purchased Amount	Purchased Date
1		Lenovo	Electronics	14000	1	12/7/2021 12:00:00 AM

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Windows

Search

File Explorer

Task View

Calendar

2

Microsoft Edge

Visual Studio Code

PowerShell

UWP

Excel

PowerPoint

Google Chrome

Firefox

Word

17°C

Clear

ENG

11:56 PM

12/10/2021



## Account Settings

<b>Name</b> nehal	<a href="#">Edit</a>
<b>Email</b> nehal@gmail.com	<a href="#">Edit</a>
<b>Phone</b> 1018952156	<a href="#">Edit</a>
<b>Address</b> 4 italy street	<a href="#">Edit</a>
<b>Balance</b> 0	<a href="#">Deposit cash</a>



## Change your email address

Enter the new email address you would like to associate with your account below. Be sure to click the **Save Changes** button when you are done.

### New email address

[Save Changes](#)

## Account Settings

### Name

nehal

[Edit](#)

### Email

nehal1@gmail.com

[Edit](#)

### Phone

1018952156

[Edit](#)

### Address

4 italy street

[Edit](#)




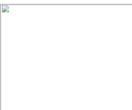
### Balance

0

[Deposit cash](#)



## Shopping Cart

	<b>NikeMen</b> Description:original Price: 800 Qty: <input type="text" value="1"/> <a href="#">Remove</a>	Total Price: L.E 2550 Number of Items: 4 <a href="#">Proceed to Checkout</a>
	<b>Chair</b> Description:leather chair Price: 150 Qty: <input type="text" value="2"/> <a href="#">Remove</a>	Balance: L.E 1000 <a href="#">Deposit Cash</a>
	<b>NikeMen</b> Description:original Price: 800 Qty: <input type="text" value="1"/> <a href="#">Remove</a>	
	<b>NikeMen</b> Description:original Price: 800 Qty: <input type="text" value="1"/> <a href="#">Remove</a>	

## Resources needed:

We used Asp.Net Core framework and used NuGet packages as :

- 1) BCrypt.Net-Next
- 2) Microsoft.EntityFrameworkCore
- 3) Microsoft.AspNetCore.Session
- 4) Promelo.EntityFrameworkCore.MySql

## Role of Each Member

Name	Role
Noura Nabil	Login system Signup system Alp diagram Testing Time plan
Nermeen Atef	Create data base ownerp age &deposit page
Nehal Yasser Abd El-Wahab	Inventory page, Add item,edit item, Delete item and Main pages
Heba Atef	Repositories for controlling the database, dashboard views and item views
Mahinour Amr	Home Page, Contact, About, CatItemsPage, Layout, Introduction
Salma Ali Abd elhalim Awadallah	Profile,Cart

## References

ASP.Net documentations