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Object Oriented Programming - 20586

SmartShop

May 13, 2021

Specification and analysis document

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Overview

The SmartShop is a platform for small businesses that want to enter the world of online sales easily and instantly

The idea is to give a system to small businesses where they can manage sales, users, employees, etc. in a convenient and easy way and get information to optimize sales in the store

The platform is structured in such a way that it is dynamic for each store but gives the same solution to all the actions required by each basic stores.

Goals

- 1. **Introducing to the online world:** Give small businesses the opportunity to enter the online world and ease the management of the business and its users
- 2. **Independent system:** The platform allows for independent maintenance which means that after initial data entry no further development is required.
 - Therefore the platform enables customers to place orders and manage account and on the part of the manager / employee, the platform enables convenient control and management.
- **3. Simplicity of use:** The purpose of the system is to be very simple to use and interactive for both the customer and the manager / employee

System description

User system requirements

1. Manager / employee (depending on authorization):

a. <u>Customer management:</u>

- i. Option to add \ delete \ update \ Search a customer
- ii. View customer details

b. Category management:

- i. Option to add \ delete \ update \ Search a category
- ii. View category details

c. Product management:

- i. Option to add \ delete \ update \ Search a product
- ii. Fast management of out-of-stock products
- iii. View product details

d. <u>Purchasing management:</u>

- i. View purchase details
- ii. Change status to order status

e. Workers management:

- i. Option to add \ delete \ update \ Search an employees
- ii. View employees details
- iii. Giving / taking Authorization from employees

f. Sales analysis management:

- i. Show graph of sales from date to date
- ii. Show percentage cut of the products sold
- iii. Show graph of comparing sales between 2 products

g. Store details management:

i. Initial\ Change Store info

- ii. Adding social media(Optional)
- h. Exception management:
 - i. Show Exception when occurred

2. Customer

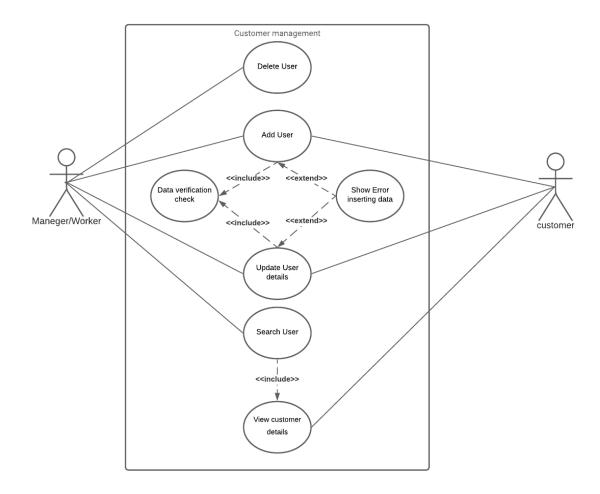
- a. Account management:
 - i. Change details
 - ii. Change password
 - iii. View Purchase History
- b. Purchasing system:
 - i. Add product to cart
 - ii. Remove product from cart
 - iii. Confirmation of purchase and checkout
- c. Customer registration:
 - i. Login\Logout
 - ii. New registration if not registered

System components

- 1. Frontend runs on Customer/Manager/Workers platform, both Manager/Workers and customers access the platform via the front end, no additional installations required.
- 2. Server that runs all the business logic.
- 3. Databases that runs on sql server platform, can be changed.

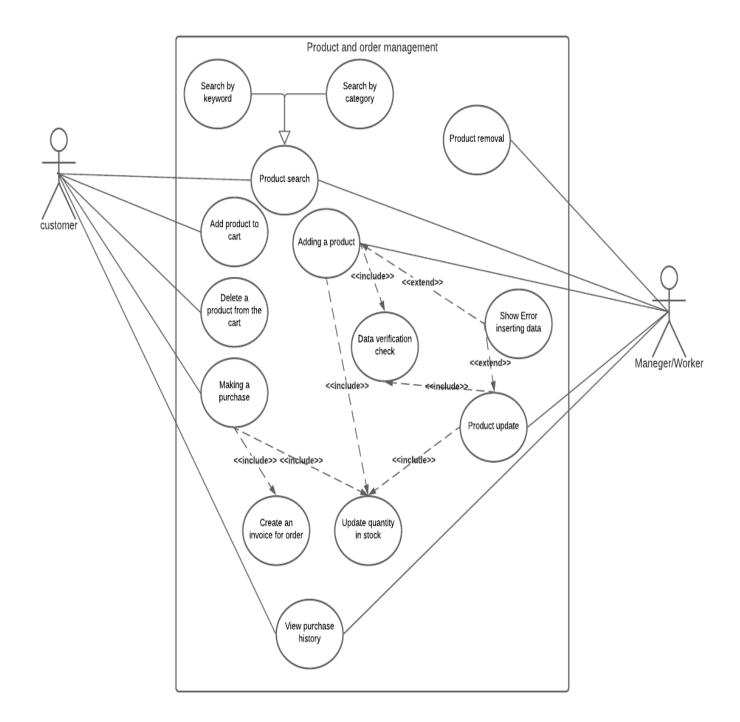
Use Case diagrams

1. Customer management



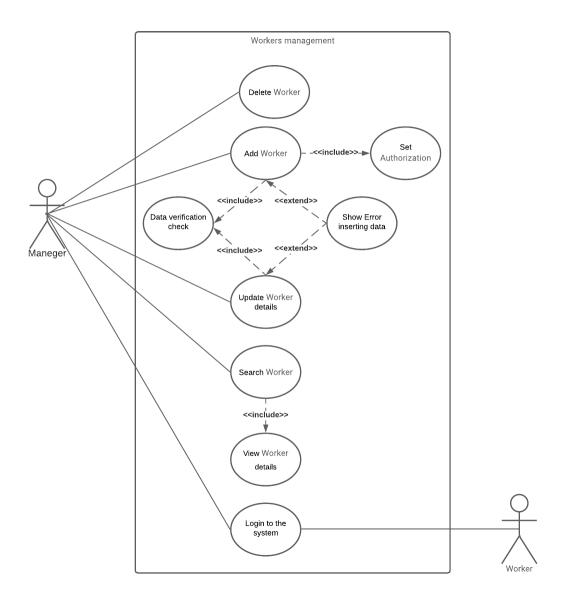
- a. Manager/Worker add new customer only if the details are valid.
- b. Manager/Worker delete existing customer.
- c. Manager/Worker update existing customer only if the details are valid.
- d. Manager/Worker Search existing customer.
- e. Customer registered only if the details are valid.
- f. Customer updates his details only if the details are valid.

2. Product and order management



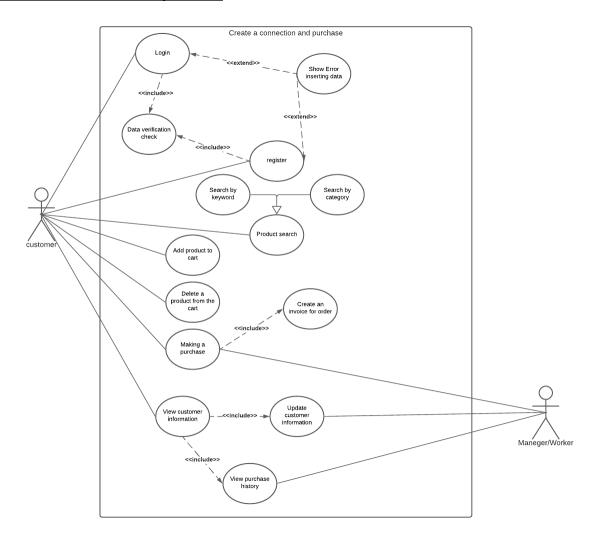
- a. Manager/Worker add new product only if the details are valid ,and by doing so the quantity is updated.
- b. Manager/Worker delete existing product.
- c. Manager/Worker update existing product only if the details are valid ,And by doing so the quantity is updated.
- d. Manager/Worker Search existing product By keyword or category.
- e. Customer Search existing product By keyword or category.
- f. Customer add/delete product from cart.
- g. Customer making a purchase ,And by doing so the quantity is updated and an invoice is created
- h. Customer can View purchase history
- i. Manager/Worker can View purchase history

3. Workers management



- a. Manager add new worker only if the details are valid.
- b. Manager delete existing worker.
- c. Manager update existing worker only if the details are valid.
- d. Manager Search existing worker By keyword
- e. Manager login/logout vie personal ID and password
- f. Customer login/logout vie personal ID and password

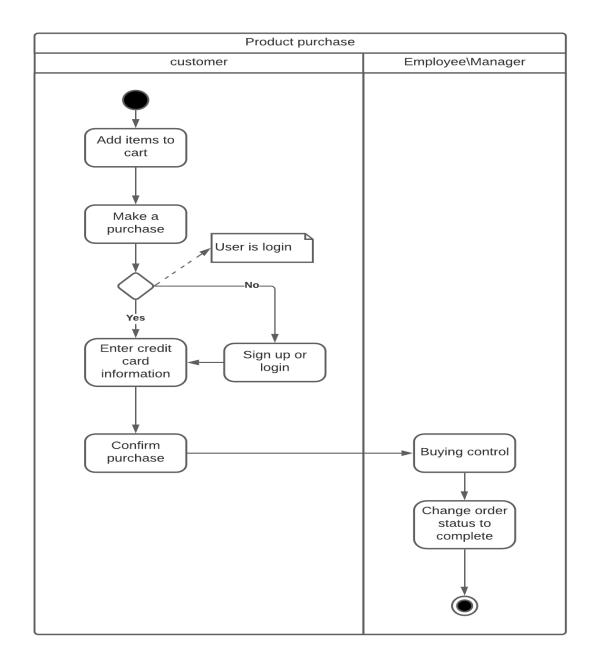
4. Create a connection and purchase



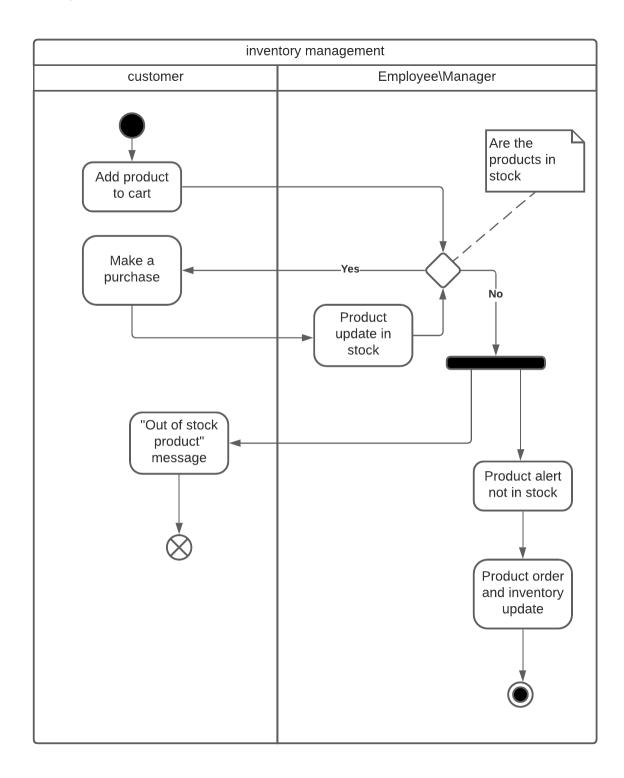
- a. Customer login If password and email match.
- b. Customer register only if the details are valid.
- c. Customer can update his details ,only if the details are valid.
- d. Customer Search existing product By keyword or category.
- e. Customer add/delete product from cart.
- f. Customer making a purchase as a result Customer and Manager/Worker can View purchase history

activity diagram

1. Product purchase



2. Inventory management



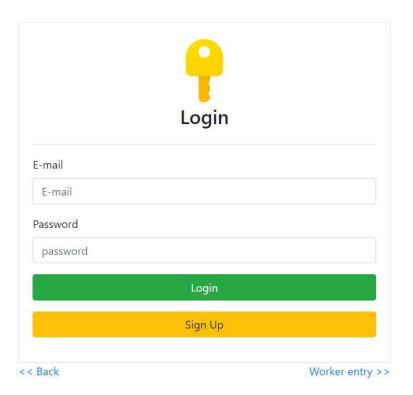
Manual

Administrator's Guide

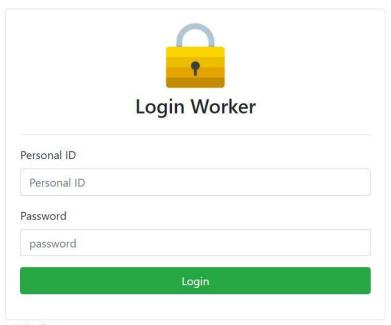
1. Manager and employee entry and toolbar change



a. Login: Clicking the "Login" button on the toolbar will take you to the Login page



Pressed the hyperlink "Worker entry" and it will take you to the Worker Login page



<< Back

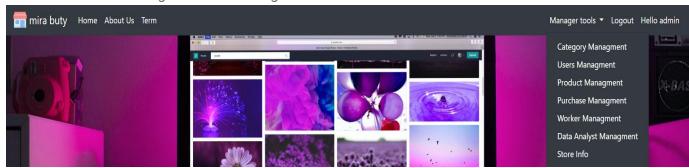
Enter personal ID number and password The site is initialized for the administrator:

ID: 0

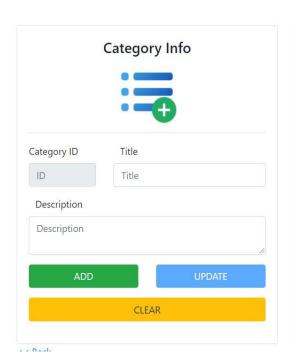
Password: 123456

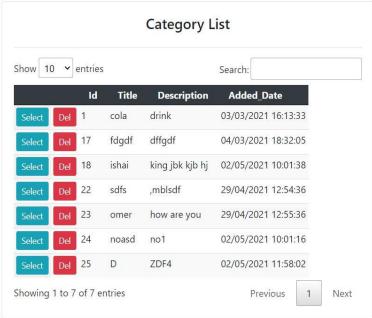
The toolbar will change depending on the Worker's authorization

Press "logout" button to log out



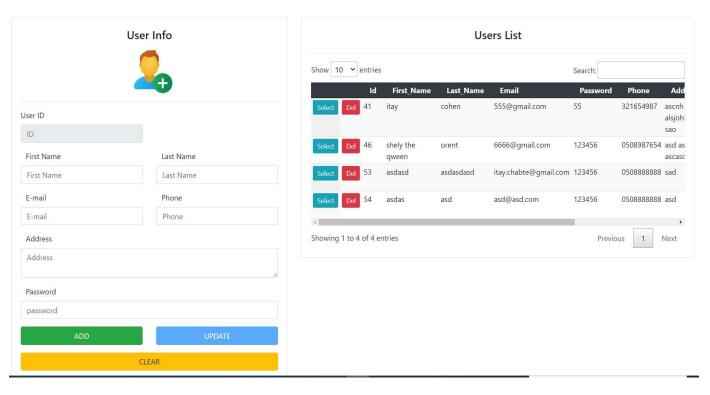
2. Category Management





- a. Add Category: Fill in the form as requested and if there is an error, the error will be displayed at the bottom of the page and click on "Add" button
- b. Category update: Select one of the categories from the list on the left by clicking the "Select" button
 - The ID of the category you will see in "Category ID", Fill out the form as desired and click the "Update" button
- c. **Delete Category:** Select one of the categories from the list on the left by clicking the "Delete" button
- d. Search Category: Write a search keyword, the result will be shown in the table

3. <u>User Management</u>

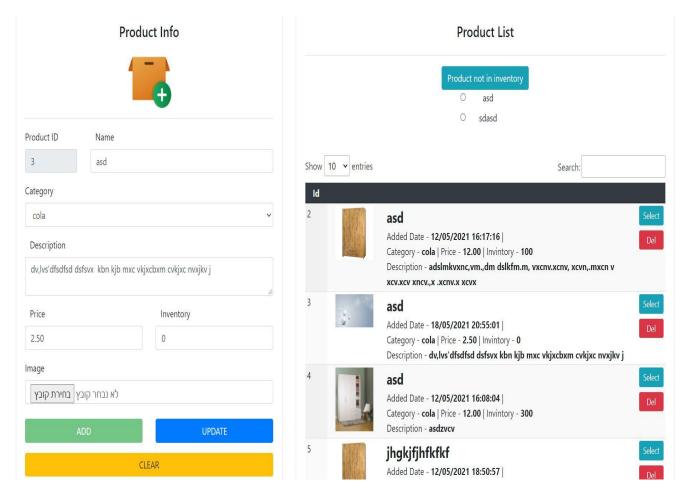


- Add User: Fill in the form as requested and if there is an error, the error will be displayed at the bottom of the page and click on "Add" button
- b. **User update:** Select one of the user from the list on the left by clicking the "Select" button

The ID of the User you will see in "User ID", Fill out the form as desired and click the "Update" button

- c. **Delete User**: Select one of the user from the list on the left by clicking the "Delete" button
- d. Search User: Write a search keyword, the result will be shown in the table

4. Product Management



- a. Add Product: Fill in the form as requested and if there is an error, the error will be displayed at the bottom of the page and click on "Add" button
- Product update: Select one of the Product from the list on the left by clicking the "Select" button
 - The ID of the Product you will see in "Product ID", Fill out the form as desired and click the "Update" button
- c. **Delete Product:** Select one of the Product from the list on the left by clicking the "Delete" button

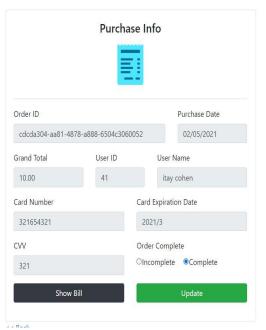
- d. **Search Product:** Write a search keyword, the result will be shown in the table
- e. **Inventory control:** When there are products out of stock, a "Product out of stock" button will appear at the top of the table.

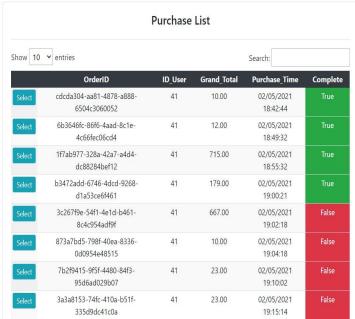
Product List Product not in inventory asd sdasd

At the click of a button we get a list of products that are not in stock

By selecting one of the products we can update the product and it is dropped from the list

5. Purchase Management





 a. Purchase update: Select one of the Purchase from the list on the left by clicking the "Select" button

The ID of the Purchase you will see in "Order ID", Choose whether the purchase is complete or not and click the "Update" button

The color in the table will change depending on the selection

Red - The order was not sent to the customer

Green - The order has been sent to the customer

b. Search Purchase: Write a search keyword, the result will be shown in the table

c. Show Bill: In selecting the purchase you can click on a button "Show Bill" and see the original invoice with all the details

You can download a PDF file of the Bill by clicking the button

Address: herzel strite 31,kiryat arba

Phone: 0778303008

Phone: itayc900@gmail.com

Invoice

Order ID: cdcda304-aa81-4878-a888-6504c3060052

Billing Date: 02/05/2021 18:42:44

To: itay cohen

Address : ascnh alsjohbk sao

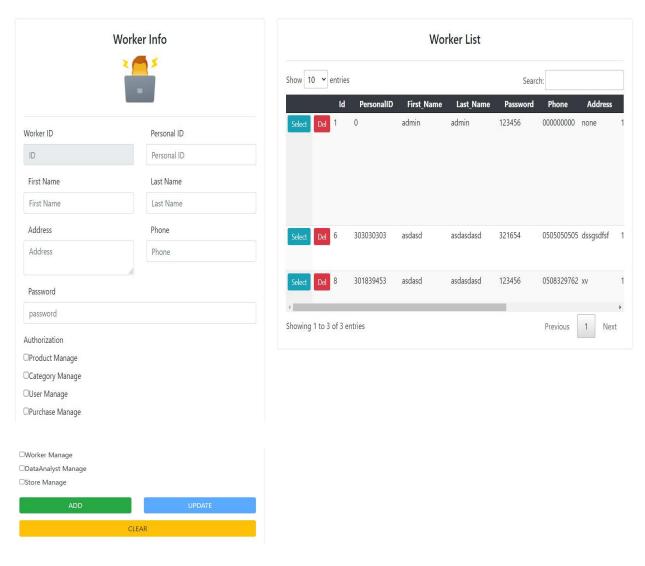
Phone: 321654987

Sno.	Product ID	Product Name	Price	Quantity	Total Price
1	5	jhgkjfjhfkfkf	10	1	10
				Total:	10

This is a computer generated invoice and does not required signature

Download PDF

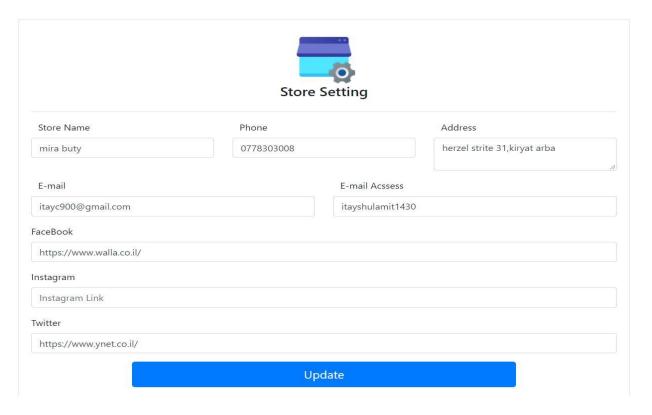
6. Worker Management



- Add Worker: Fill in the form as requested and if there is an error, the error will be displayed at the bottom of the page and click on "Add" button
 - In addition to the details, we will select the permissions for each worker
 - Depending on the permissions the worker will get access to the various managements
- b. **Worker update:** Select one of the worker from the list on the left by clicking the "Select" button

- The ID of the worker you will see in "Worker ID", Fill out the form as desired and click the "Update" button
- c. **Delete Worker:** Select one of the worker from the list on the left by clicking the "Delete" button
- d. Search Worker: Write a search keyword, the result will be shown in the table

7. Store Management



a. Store update: Fill in the details for the store

Required details:

Store name, phone, address, email, email password

Details of your choice:

Facebook

Instagram

Twitter

All changes will be seen on the site as well as in the account created for each purchase

In addition to sending an email to every new user and every purchase

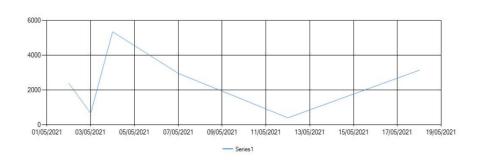


8. Data Analyst Management

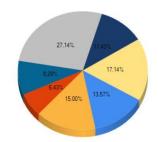


a. Show data: Select start date and end date and click the "Show Data" button
 After clicking the button we will get 2 graphs
 Order graph relative to time
 Cake division of percentage of the sale of products

Total	Date
2397.00	02/05/2021 00:00:00
663.00	03/05/2021 00:00:00
5357.00	04/05/2021 00:00:00
2965.00	07/05/2021 00:00:00
405.00	12/05/2021 00:00:00
3145.32	18/05/2021 00:00:00



ProductName	Total
asd	19
cherr	21
DSFSFSDFDS	9
jhgkjfjhfkfkf	13
ninana	38



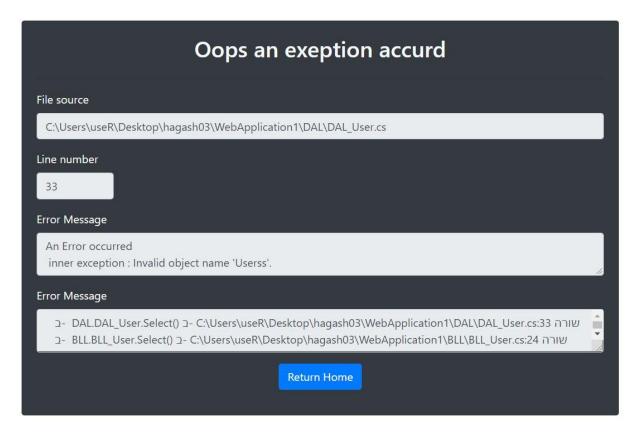


b. **Comparison between 2 products:** After selecting the 2 dates it will be possible to select 2 products or one for sale comparison on these dates



9. Exception Management

When Exception is occurred we get the screen with the error details



The error itself will be stored in the logError.axd file
In this case, contact the programmer with the details

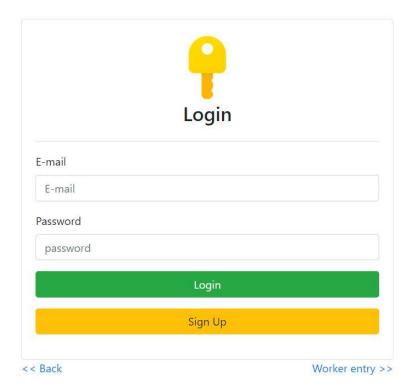
To see all the errors we will use the Elmah extension by adding logError.axd to the main address bar

Customer's Guide

1. Manager and employee entry and toolbar change



a. Login: Clicking the "Login" button on the toolbar will take you to the Login page



Enter E-mail and password and press on "Login" button If this is the first time on the site click on "sign Up" button The toolbar will change to the user name Press "logout" button to log out

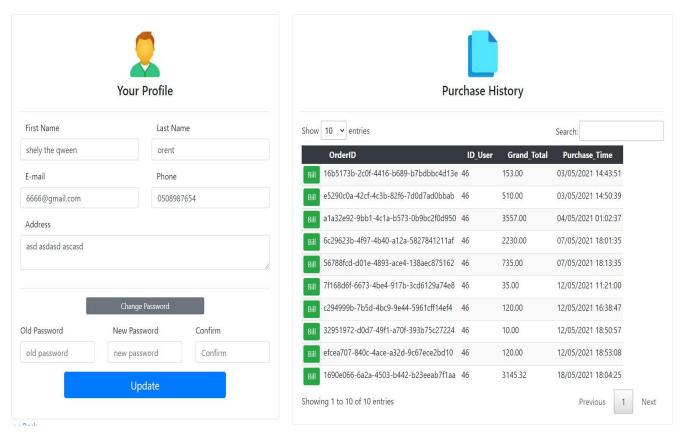


2. Sign up

	Sign Up	
First Name	Last Name	
First Name	Last Name	
E-mail	Phone	
E-mail	Phone	
Address		
Address		
Password	Confirm	
password	Confirm	
	Sign Up	

a. **Sign up:** Fill in the form as requested and if there is an error, the error will be displayed at the bottom of the page and click on "Sign up" button The user will receive an email with the username and password from the site

3. Profile management



 a. Profile update: When you click on the name in the toolbar, you enter the Profile Management page, the details will load automatically The details and password can be changed individually



To change the password, click on the "Change Password" button and make a password change
At the end we click on the "Update" button

b. **Purchasing History**: Select one of the Purchase from the list on the left by clicking the "Bill" button In selecting the purchase the bill window will open with original invoice with all the details

You can download a PDF file of the Bill by clicking the button

Address : herzel strite 31,kiryat arba

Phone: 0778303008

Phone: itayc900@gmail.com

Invoice

Order ID: cdcda304-aa81-4878-a888-6504c3060052

Billing Date: 02/05/2021 18:42:44

To: itay cohen

Address : ascnh alsjohbk sao

Phone: 321654987

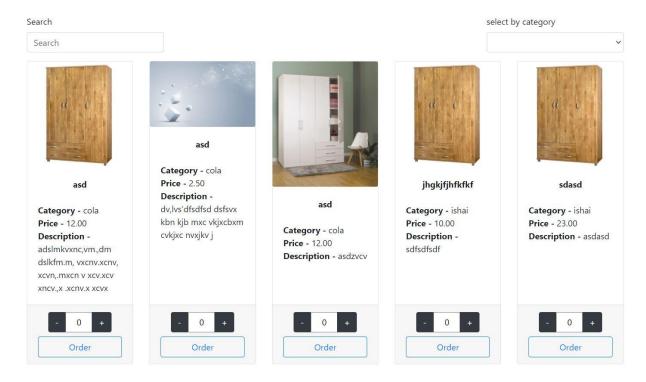
Sno.	Product ID	Product Name	Price	Quantity	Total Price
1	5	jhgkjfjhfkfkf	10	1	10
				Total:	10

This is a computer generated invoice and does not required signature

Download PDF

c. Search Purchase: Write a search keyword, the result will be shown in the table

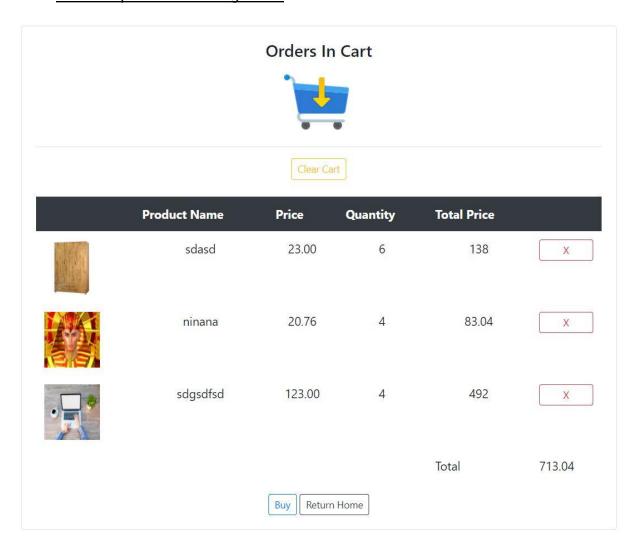
4. Ordering items



- a. Product search: You can search by keyword or category
- Add product to cart: Each product appears with a name, image, price, description and category

You can select up to 20 items from each product or while stocks last Then click the "Order" button

5. Cart and purchase management

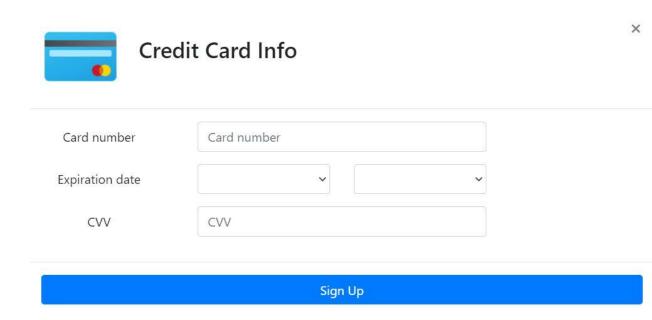


- a. Delete product: Clicking on the red X will delete the product from the cart
- b. Delete the entire product: Clicking Clear will delete all products from the cart
- c. **Making a purchase**: Clicking on the "Buy" button will open a registration window if the user is not logged in



The customer will log in / register

Then we will return to the cart page and a payment window will open



The customer will enter the credit card details where he wants to make a payment

After confirmation an invoice page will open and the order has been placed

mira buty Address : herzel strite 31,kiryat arba

Phone: 0778303008

Phone: itayc900@gmail.com

Invoice

Order ID: 5fcc0a2d-d13f-4ff8-8dd8- To: shely the qween orent

f464298748f3 Address: asd asdasd ascasd

Phone: 0508987654

Billing Date: 18/05/2021 23:34:34

Sno.	Product ID	Product Name	Price	Quantity	Total Price
1	8	sdasd	23	6	138
2	21	ninana	20.76	4	83.04
3	24	sdgsdfsd	123	4	492
				Total:	713.04

This is a computer generated invoice and does not required signature

An email will be send to the customer with the order number