



# East West University

Department of Computer Science and Engineering  
CSE347: Information System Analysis & Design  
Section- 1, FALL 2022

## Project report

## Virtual store System for a Supershop

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### Submitted To:

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Senior Lecturer,  
Department of CSE

### Submitted By:

**Group No-4**

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## **Project title:** Virtual store system for a supershop

### **1. Introduction:**

Our project is about developing a website that maintains a Virtual store system of a super shop through live interactions. Our aim is to give people a platform where they can have easy shopping through online. It helps to buy easily for people as they can buy their required goods or products without going to shop as well as without difficulties. Our plan is to having some main station of the shop at some places. People have to create account in our online platform. Where they have to give their details as they will order goods and the order will be delivered at their required place within required time. Again, for quick delivery service, there will be some substations of the platform, situated at certain distance from each. This system can also be a cost- efficient way to a marketing. As in our virtual store, we don't need many outlets also therefore we just need delivery men not a group of staffs to run each outlets. Moreover, electricity bill, space rent and staff salary will also reduce. We can have a cost-efficient virtual store system.

However, there will be an admin panel from which everything will be operated. Admin panel will upload a product with details like, category, color, size, material, price, available or not etc. They will always up to date with their availability of the required products. They will also keep the information of the customers and the orders they made. Also they will keep a history of the order which a customer made, cart system, payment system and also provide online tracking system. However a customer can order his required items by first time signing p and afterwards login to his account. He can take required items in the cart also get the idea of the bill amount. After ordering he will also able to keep the order be tracked. Besides, sponsors can promote their goods.

Nevertheless, our main challenge is to do the work according to our plan. So that we can build an efficient system without getting stuck anywhere or without having any lags. Security implementation, concurrent transaction, loading speed, return and refund policy, sustainability and data privacy are also some of the big challenges that we have to overcome. However, any online based virtual shop can get and use the platform. It helps them to do a good business. As the platform will be very user friendly and a perfect system of an online shop.

## **2. Non-Functional Requirements**

### **Product Requirements:**

- **Usability:** This system should be user friendly and easy to use. The system should not seem intimidating to new users. It should be easy enough to use and operate while being pleasing to the eye.
- **Performance & Efficiency:** The performance should be smooth. The website's load time should not be more than one second for users. This can be achieved through proper planning and having clean code.
- **Security & Safety:** The system has to be secured and safe. No one can access to the other personal information. Only the users with the role "site admin" can view the users' and publisher verified information.
- **Dependability:** Clients can depend on this system indubitably. The website should not have complicated methods of doing the same thing in various ways. Rather, having a single and easy way to do it makes it less complicated towards the users thus increasing their dependability.
- **Reliability:** Users can access the system and their needed things 99% of the time without failure.

### **Organizational Requirements:**

- **Environmental:** The system should efficiently use the hardware and have less impact on the environment. So, the code has to be clean and as simple as possible not only for environmental purposes, but also for the other developers who are working on it.
- **Operational:** This system should work for different types of users.

### **External Requirements:**

- **Regulatory:** The system should be complied with the laws of country. The website should only allow modest products to be uploaded which can be verified using machine learning algorithms in the future if we want to continue developing this.
- **Ethical:** This system should be built in a way that the result does not get biased. To ensure this, we again have to ensure the security as the structure of the website is unbiased otherwise.
- **Accounting:** This system should follow rules of banking and accounting system of the country. There will be also E-currency, so there should be no any lack in accounting.

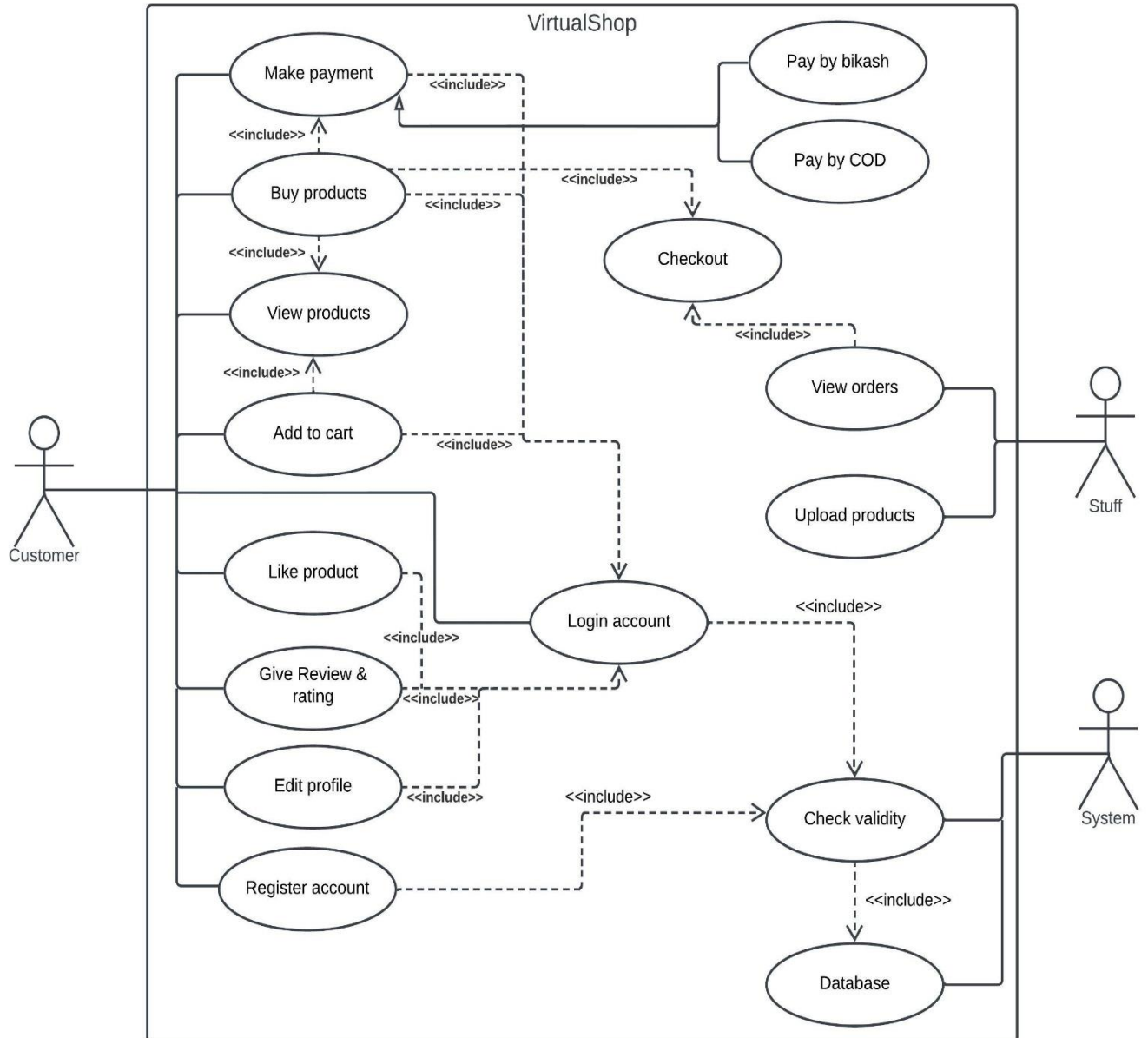
### **3. Functional Requirements**

- User registration page which will take name, Phone no, email, and password as input. This will create a new record in the users table of the database.
- User login page that will take email, password as inputs and check if there exists a user in the database with the entered credentials. This will also check if the credentials are correct or incorrect. From Admin user side for login page there will be an option of admin login which will take email of admin and password as inputs and check if there exist that admin user in the admin user database with the entered credentials. This will check the given credentials are correct or incorrect and give a message if it is incorrect.
- Admin can add products, banner, category, brand and others from administration page
- The system will show banner and top products on the home page.
- There can be variation of a single products based on color, size and price.
- User can see different product list of brand and categories. They can search products using search box.
- Users can filter products based on color, size, brand and price.
- Users can see details and the related products by clicking on a product.
- User can update their profile and add their new address, payment method.
- User can add products by Add to Cart, able to delete them and save cart item order in database.
- User can order products from the Cart page.
- User can add review, give ratings and add desire products in their wish list.
- User can see the previous order from history.
- User can checkout and able to payment by mobile financial system like Paypal.

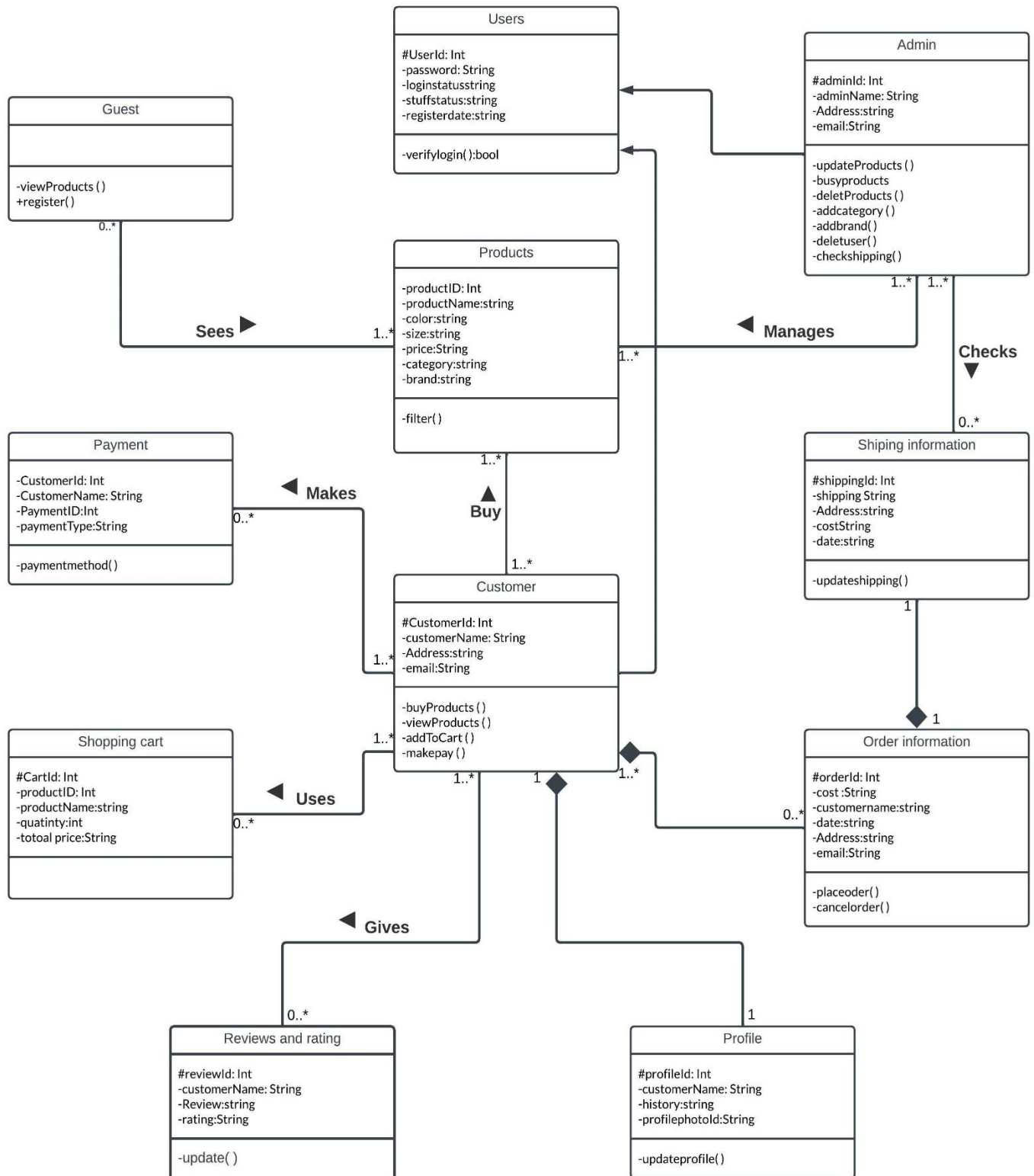
### **4. Technologies:**

- **Programming language:** Python, JavaScript
- **Database:** Sqlite3
- **Others:** HTML, CSS and Django framework

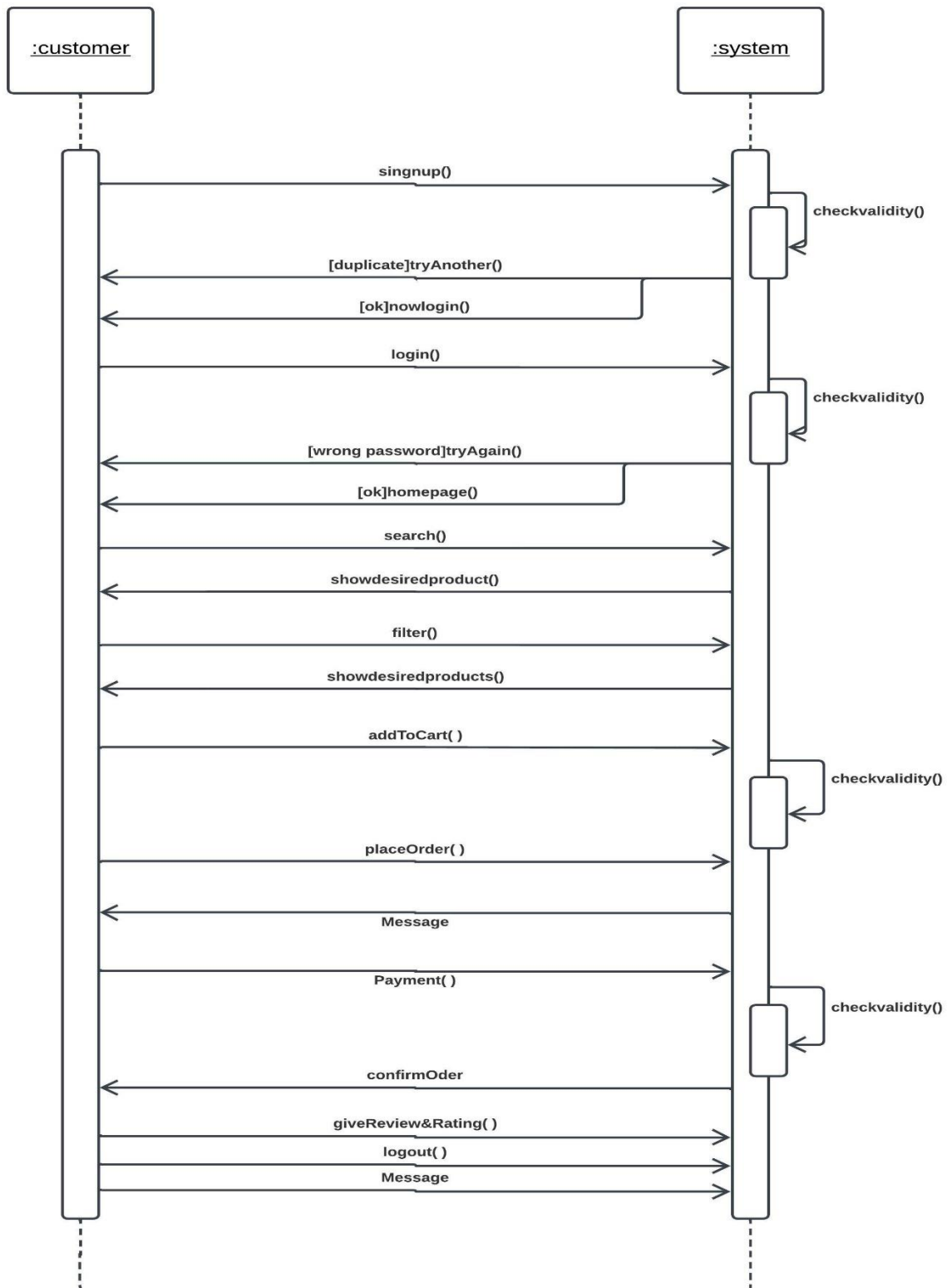
## 5. Use case diagram:



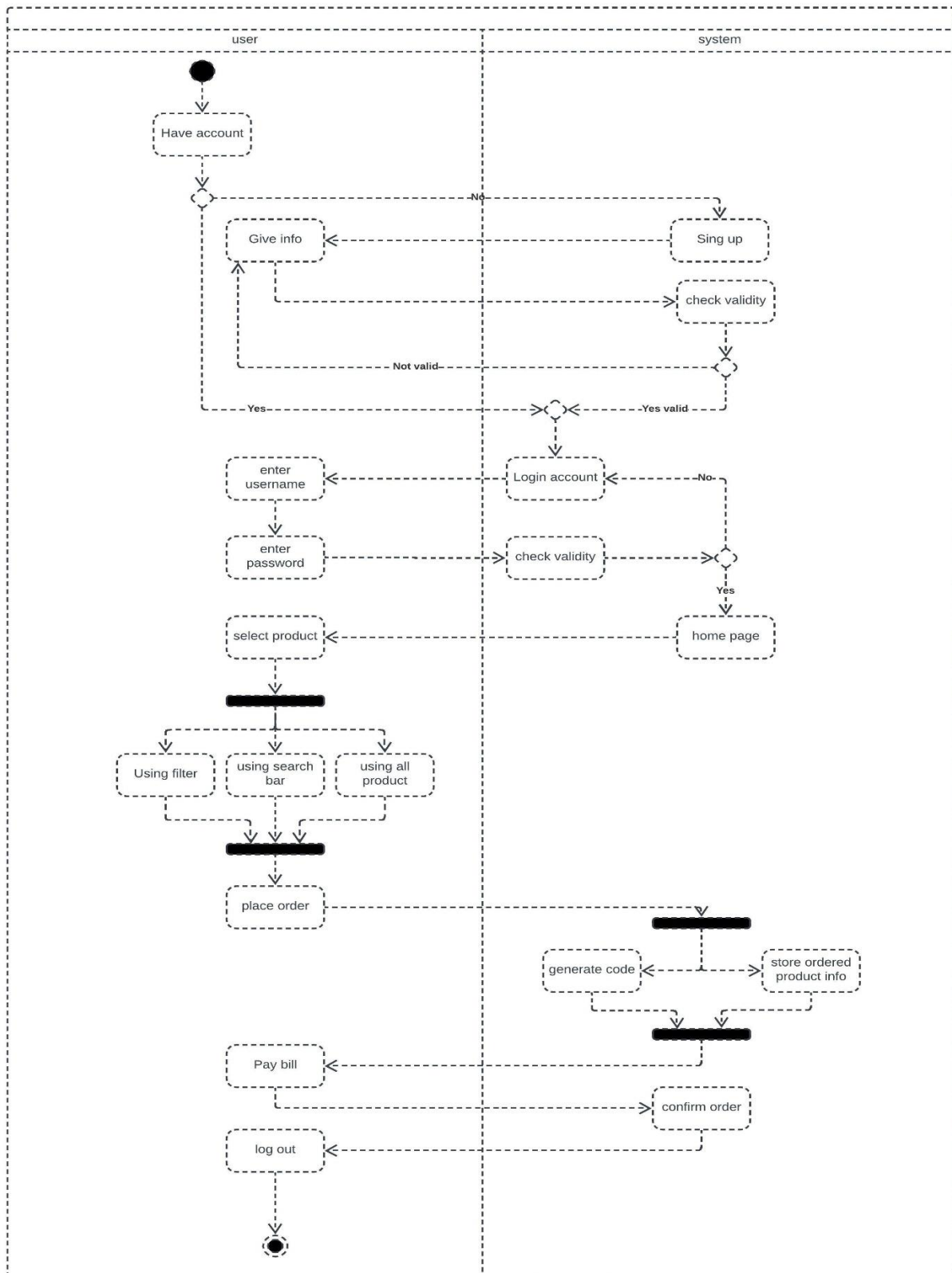
## 6. Class diagram:



## 7. Sequence diagram:

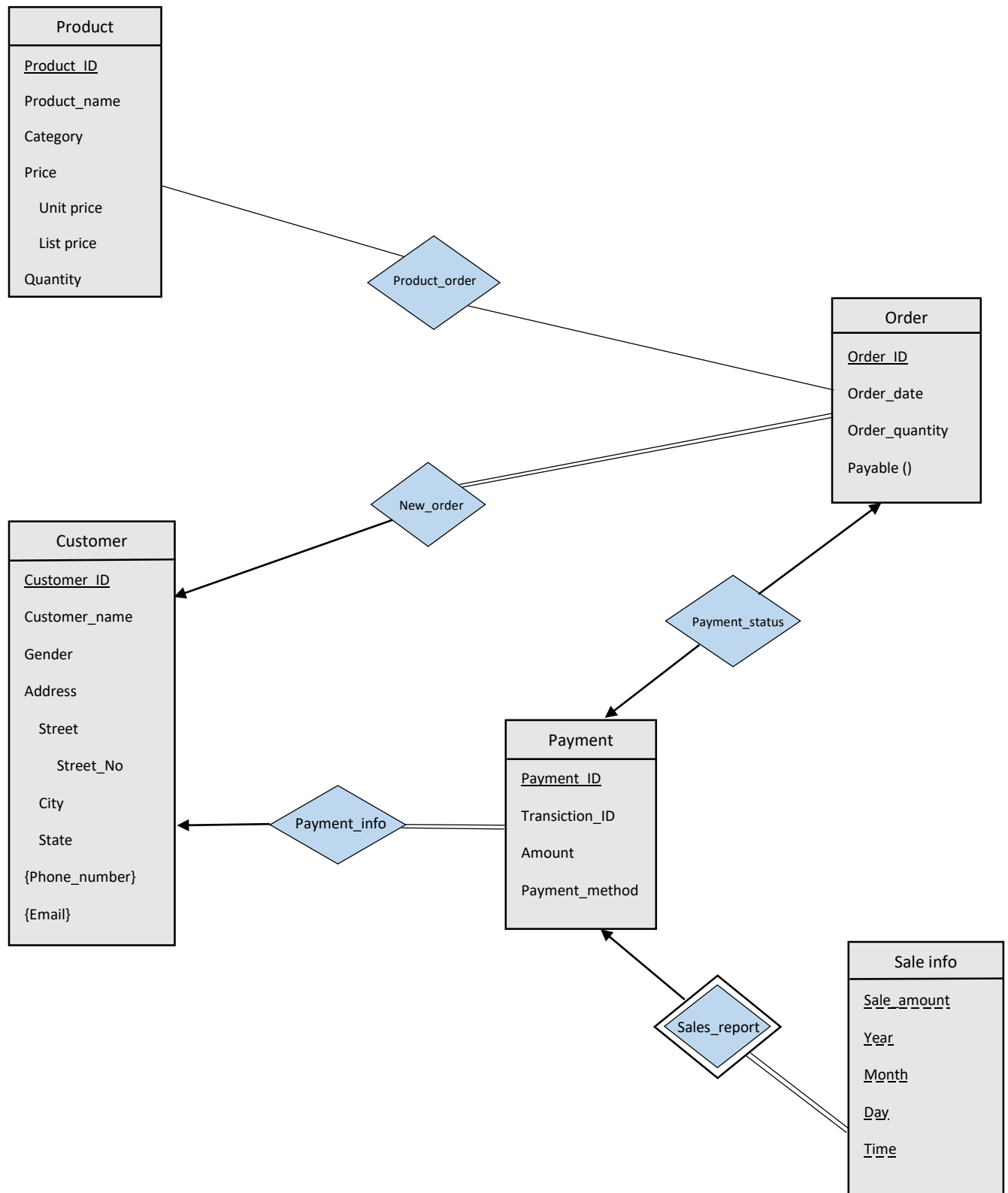


## 8. Activity diagram:





## 9. ER diagram:



## 10. GUI screenshots:

Virtual Store

search

Search

Home

Categories

Brands

Cart(0)

My Account

### Login

Username:	<input type="text" value="admin"/>
Password:	<input type="password" value="*****"/>
<input type="button" value="Login"/>	

If you are not registered, Please [Signup here](#).

Virtual Store

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#### Features

Core Features

Random features

Customers' feature

Admins' feature

More

#### Resources

Django

Python

javascript

Bootstrap 4.6X

#### About Creators

K. M. Safin Kamal

Mysha Maliha Priyanka

Md. Hasibur Rahman

(From EWU CSE Department)

Virtual Store

search

Search

Home

Categories

Brands

Cart(0)

My Account

### SignUp

First name:	<input type="text"/>
Last name:	<input type="text"/>
Email address:	<input type="text"/>
Username:	<input type="text"/> Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.
Password:	<input type="password"/> <ul style="list-style-type: none"><li>Your password can't be too similar to your other personal information.</li><li>Your password must contain at least 8 characters.</li><li>Your password can't be a commonly used password.</li><li>Your password can't be entirely numeric.</li></ul>
Password confirmation:	<input type="password"/> Enter the same password as before, for verification.
<input type="button" value="Register"/>	

Virtual Store

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#### Features

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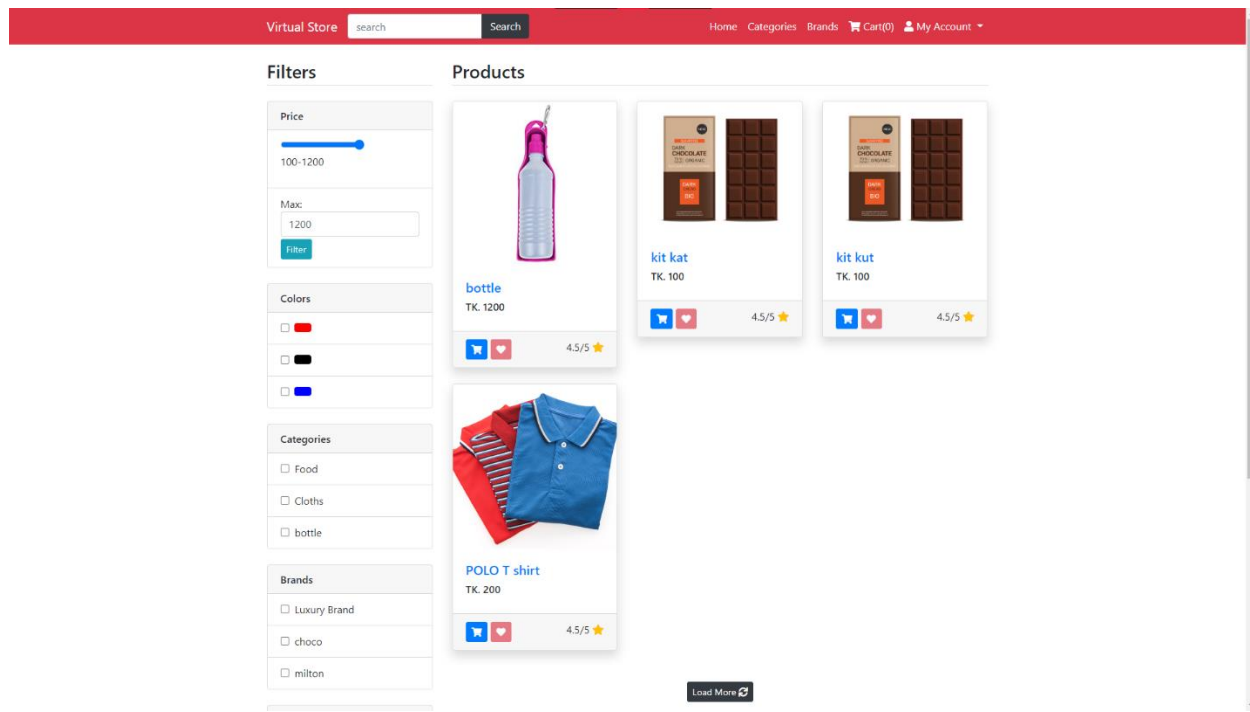
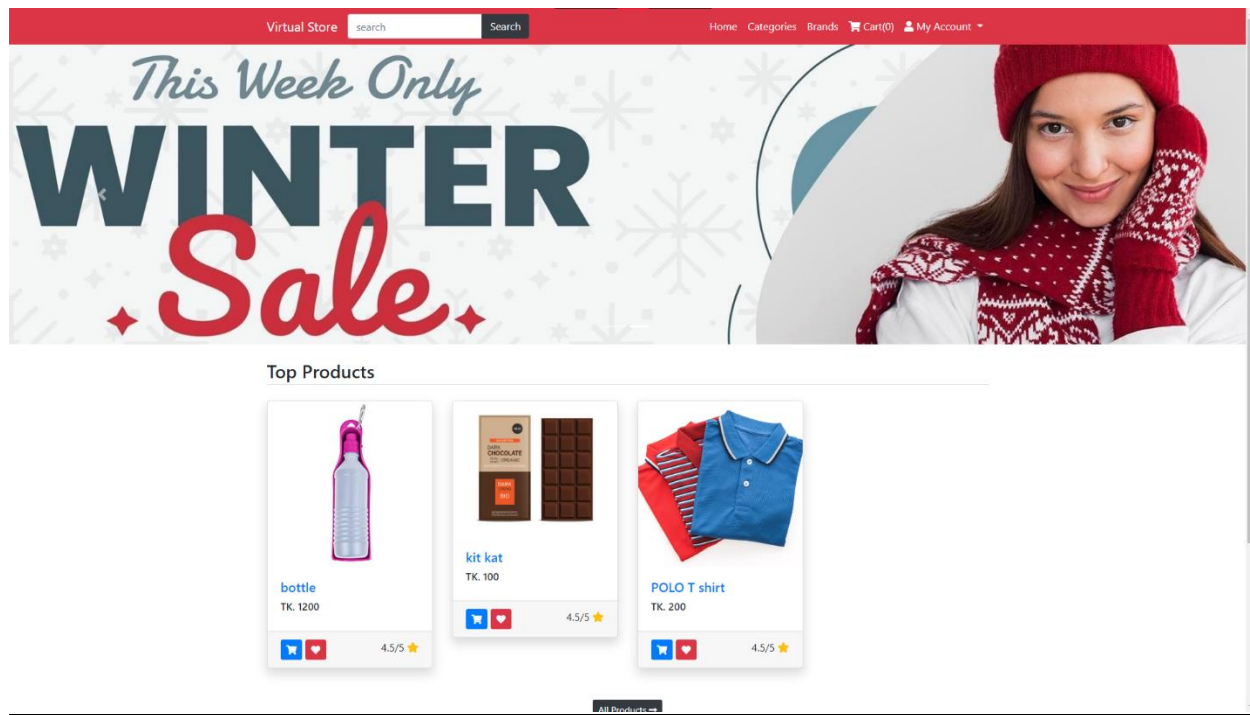
#### About Creators

K. M. Safin Kamal

Mysha Maliha Priyanka


Md. Hasibur Rahman

(From EWU CSE Department)



Virtual Store
Search
Home
Categories
Brands
Cart(0)
My Account

## POLO T shirt



For men

Colors	<span>Red</span> <span>Blue</span>
Sizes	Medium
Price	TK. 200

1
Add to Cart

Detail

Brand	Luxury Brand
Category	Cloths
Specification	For men

Reviews - 4.0/5

nice
— admin

fine
— safin1







Nice product
— user3

### Related Products

Virtual Store
Search
Home
Categories
Brands
Cart(2)
My Account

Press F11 to exit full screen

## Cart (2)

Product	Qty	Price	Total
 kit kat	<input type="text" value="1"/> <div>   </div>	TK 100	TK 100
 POLO T shirt	<input type="text" value="1"/> <div>   </div>	TK 200	TK 200
		<b>Total</b>	<b>TK 300.0</b>

Checkout

Virtual Store
  
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**Features**

- Core Features
- Random features
- Customers' feature
- Admins' feature
- More

**Resources**







- Django
- Python
- Javascript
- Bootstrap 4.6X

**About Creators**

- K. M. Safin Kamal
- Mysha Maliha Priyanka
- Md. Hasibur Rahman
- (From EWU CSE Department)

Press **F11** to exit full screen

Cart (2)

Product	Qty	Price	Total
 kit kat	1	\$ 100	\$ 100
 POLO T shirt	1	\$ 200	\$ 200
		Total	Rs. 300.0
<div>Buy Now</div> <div></div>			

Address

Banasreee

Select Address

Virtual Store  
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Features  
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Resources  
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About Creators  
K. M. Safin Kamal  
Mysha Maliha Priyanika  
Md. Hasibur Rahman  
(From EWU CSE Department)


Test Store

JD



\$200.00 USD

Pay with




CREDIT UNION 1

Checking \*\*\*\*0906


Backup: Visa \*\*\*\*7733

☐ Make this my preferred way to pay



Visa

Credit \*\*\*\*7733



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Apply for PayPal Credit No interest if paid in full in 6 months for your purchase of \$200.00. Subject to credit approval. See terms

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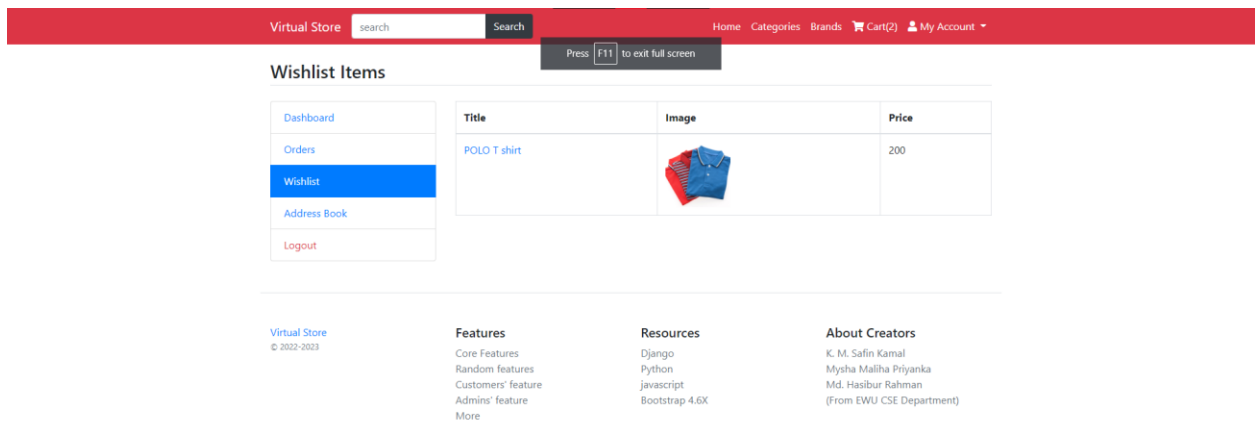
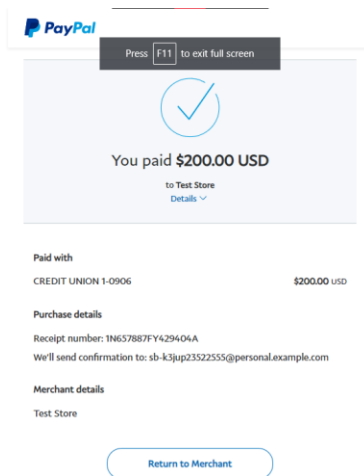
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Plans as low as \$18.33 for up to 12 months. Learn more

Complete Purchase

Payment method rights

Cancel and return to Test Store



Django administration

WELCOME, ADMINVIEW SITE / CHANGE PASSWORD / LOG OUT

HomeMain7. ProductAttributes

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

GroupsAdd

UsersAdd

IPN

PayPal IPNsAdd

MAIN

1. BannersAdd

2. CategoriesAdd

3. BrandsAdd

4. ColorsAdd

5. SizesAdd

6. ProductsAdd

7. ProductAttributesAdd

8. OrdersAdd

9. Order ItemsAdd

AddressBookAdd

Product reviewsAdd

WishlistAdd

Select product attribute to change

ADD PRODUCT ATTRIBUTE +

Action:Go0 of 8 selected

ID	PRODUCT	IMAGE TAG	PRICE	COLOR	SIZE
19	POLO T shirt		270	Blue	Medium
18	kit kut		500	Black	Large
16	bottle		1200	Red	Medium
12	kit kut		100	Black	Small
9	kit kut		200	Black	Large
8	kit kut		100	Black	Medium
7	POLO T shirt		300	Blue	Large
6	POLO T shirt		200	Red	Medium

8 7. ProductAttributes