

A
PROJECT REPORT
ON
“E-Shop (E-Commerce Site)”

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And finally, we would like to thank all **our friends** for their support and the timely help.

Yours Sincerely,

- 1) Mr. Kankrale Hrushikesh Balasaheb
- 2) Miss. Dhumal Prajkt Bharat

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ABSTRACT

“E-Shop (E-Commerce Site)” is a process in which one can order various Products from E-Shop through the use of internet, just by sitting at home or any place. And the order is delivered to the registered location.

The E-Shop (E-Commerce Site) in Python is a simple project developed using Python, JavaScript, HTML, CSS, Django and Bootstrap. The project connects various shops with customers. The project contains an admin(manager) and the user side. All the management like editing site contents, updating products and checking order status can be managed from the admin side.

For the user section, the users can go through the homepage. In order to order the products, items, the user has to create an account and sign in or log in. The products comes with the cost as well. This project makes a convenient way for customers to buy/purchase products online, without having to go to the shop.

Talking about the features of this system, it contains the admin(manager) section and the user (customer) section. All the editing's, updating, managing order details, Products, and Shops are from the admin section while customers can only go through the site and give orders if want. The design of this system is simple so that the user won't get any difficulties while working on it.

Problem Statement

- The E-Shop (E-Commerce Site) deals with placing orders of Products like Cloths, Watches, Gifts, Fashion ,Shoes and so on from various Shops. This system involves the following functionalities :
 - 1.) Collecting data : The data is collected from the customer through the application.
 - 2.) Verification of data : The data collected(Product ordered) from the customer is cross verified with the specific shops for availability.
 - 3.) Order confirmation : The order is confirmed by sending a confirmation text to the customer.
 - In this system we receive orders of Products from customers, confirm them with shops and ensure safe money transactions .
 - The system also provides the customer the facility of rating their experience and suggesting improvements .

System Analysis

Existing System :

- In the present scenario people have to physically visit the Shops for Purchasing any Products, and have to make payment through cash mode most of the times due to unawareness of advanced technologies at certain places.
- In this method time as well as physical work is required, among which time is something that no one has in ample amount. The product ordering procedure is not efficient enough for shops, as they have to deal with crowd, in their Shops.
- The old methods can be classified into categories which are paper grounded and verbal grounded. For paper based work, the salesman comes and pens down products/items that customers order and pass the product list containing paper to the worker in the shop for further process.
- Also from the owner's point of view maintaining data record and the accounts in physical file is cumbersome and tedious work to do. And also it is full of risk as anyone can access it and modify the data.

Proposed System :

- This system is a bunch of benefits from various point of views. As this online application enables the end users to register to the system online, select the Products/items of their choice from the site, and order products/items online.
- Also the payment can be made at the time of home delivery .The selection made by the customers will be available to the shops reception or to the person handling work assignment.
- As soon as the workers prepares the product/items packaging, the later person forwards the parcels to the delivery persons assigned with the location and customer identity of the customer along with the bill status.
- With this application the work load of the workers in the shops are reduced or in some situations the work is abolished.
- One of the various benefits of this is system is that if there is rush or a huge crowd present in the shops then in that case sometimes unavailability of workers cut downs the shops customer.
- This system allow the staff /workers to gives products to the customers they want within less time as compared to the manual system.

Project Scope and Limitations

➤ Future Scope :

- This project aimed at developing an E-Shop (E-Commerce Site) which can be used in small places, and medium cities firstly and then on a large scale.
- It is developed to help Shops to simplify their daily operational and managerial task as well as improve the Purchasing experience of customers. And also helps shops develop happy customer relationships by providing good services.
- The system enables staff/workers to let update and make changes to their products/items list information based on the orders placed and the orders completed.

➤ Limitations :

- We can accept only one Online Payment mode i.e. COD. We cannot accept Net-Banking, QR Code/Phone Pay.
- If project runs offline so forgot password facility is not available.
- SMS System is not available.
- Order tracking facility is not available.

Front End :

-  **HTML**
-  **CSS**
-  **JavaScript**
-  **Python**
-  **Django Framework**

1. **HTML:** HTML is used to create and save web document.
2. **CSS :** (Cascading Style Sheets) Create attractive Layout.
3. **JavaScript:** It is a programming language, commonly use with web browsers.
4. **Python:** Python is a technology that allows software developers to create dynamically generated web pages, in HTML, or other document types, as per client request. Python is open source software.

Back End :

-  **Django Framework with inbuilt SQLite Database.**

1. **Django:** Django is a Framework of Python, widely used for Web Development. Django is specially known as a Backend framework, but actually it's both Backend and Frontend. We configure the Backend logic within the Views and Models. But we can also define the Frontend through the templates, where we use HTML,CSS and JavaScript.

Software Requirement :

- **PyCharm :** PyCharm is an integrated development environment (IDE) for programming in python.

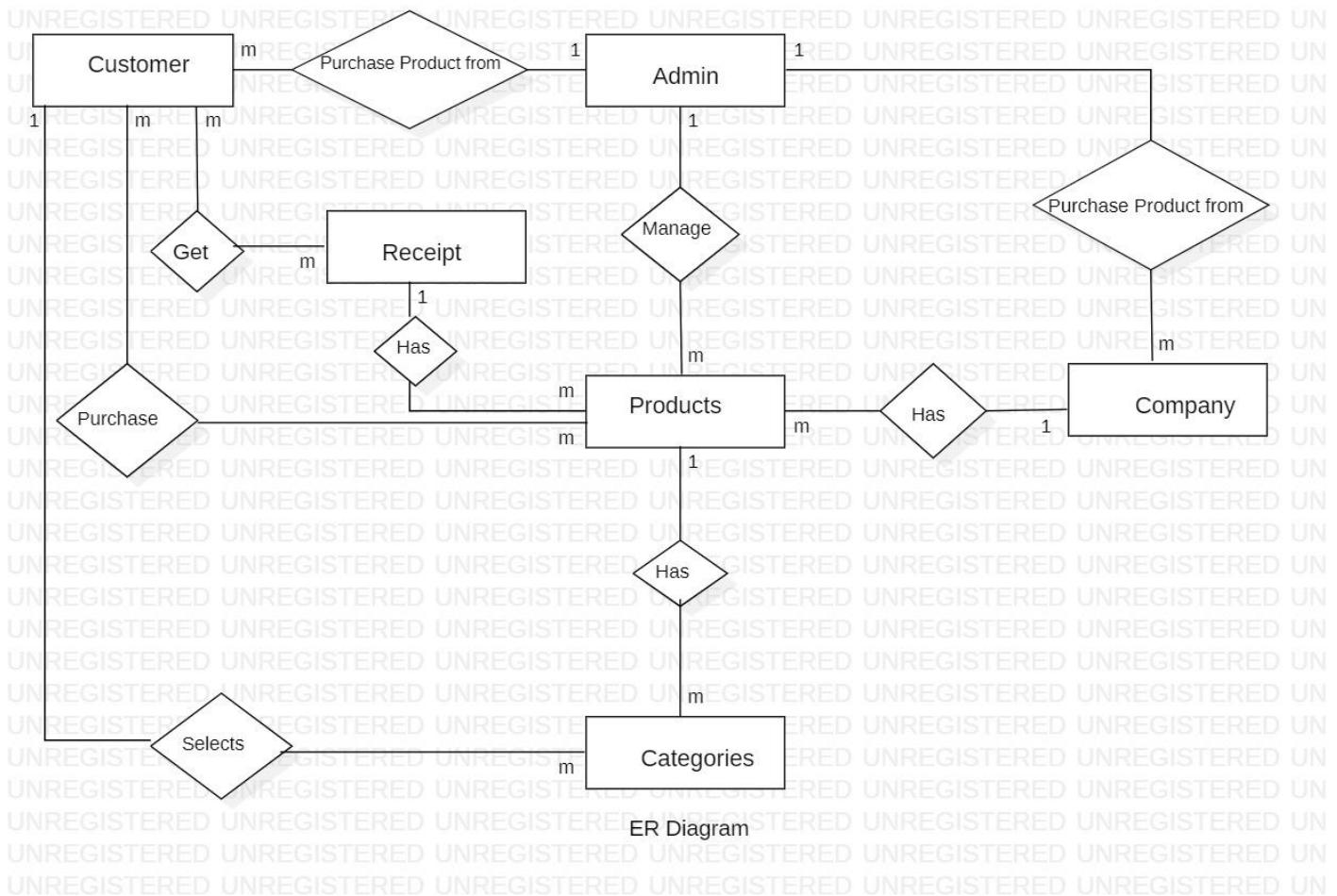
Browser :

-  Any Browser.

Frameworks :

- **Django Framework.**

E-R Diagram :



Data Dictionary :

Admin Login :-

Fields	Data type	Constraint	Default
uid	Varchar(255)	Not Null	None
pass	Varchar(255)	Not Null	None

Customer Table :-

Fields	Data type	Constraint	Default
cno	int(11)	Primary Key	None
cfname	Varchar(255)	Not Null	None
clname	Varchar(255)	Not Null	None
cph	Varchar(255)	Not Null	None
cemail	Varchar(255)	Not Null	None
cpass	Varchar(255)	Not Null	None

Products Table :-

Fields	Data type	Constraint	Default
pid	int(20)	Primary Key	None
pname	Varchar(255)	Not Null	None
pcategory	Varchar(255)	Not Null	None
pprice	int(11)	Not Null	None

Orders Table :-

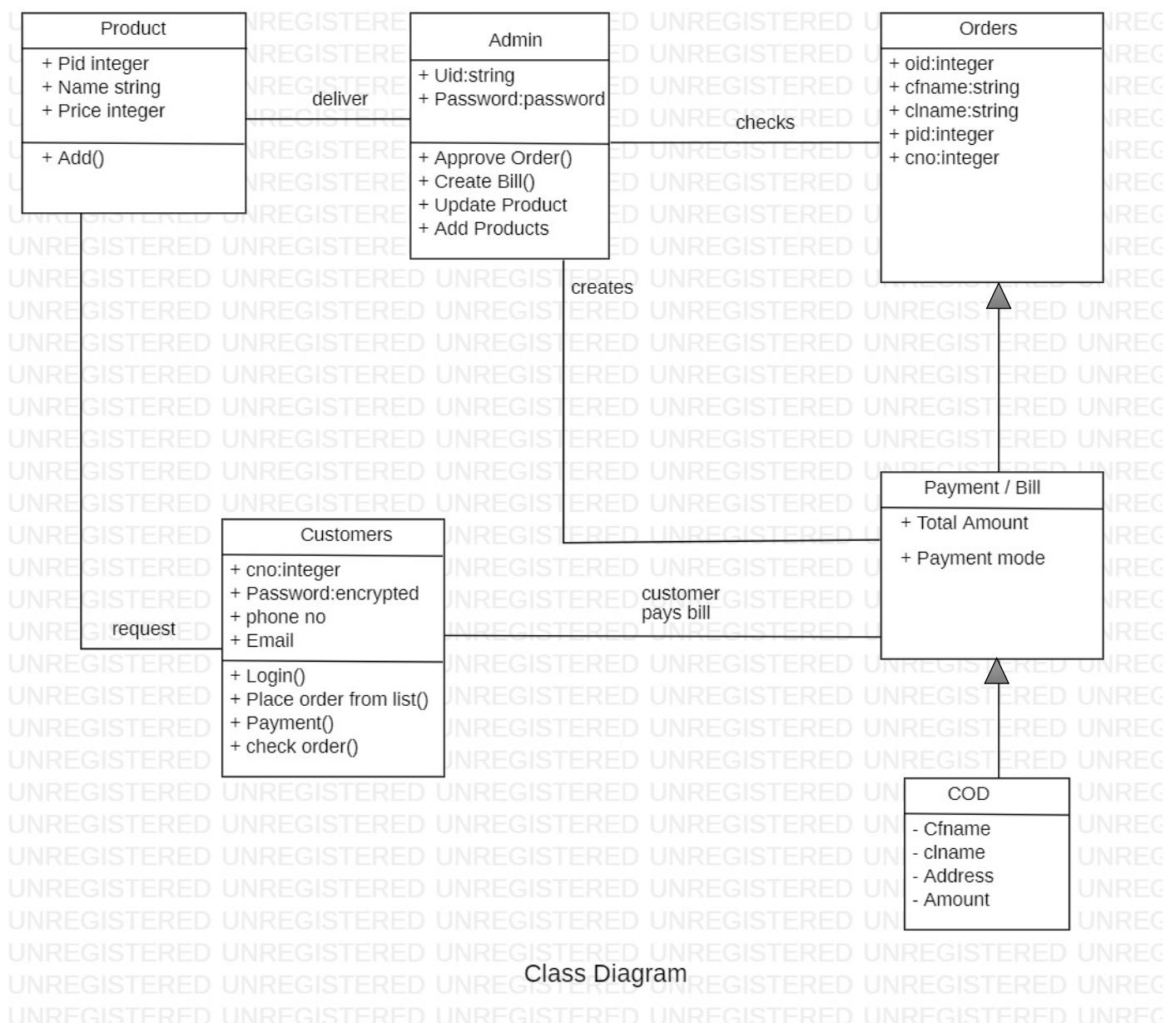
Fields	Data type	Constraint	Default
oid	int(11)	Primary Key	None
cfname	Varchar(255)	Not Null	None
clname	Varchar(255)	Not Null	None
pname	Varchar(255)	Not Null	None
Quantity	int(11)	Not Null	None
price	Varchar(255)	Not Null	None
date	Varchar(255)	Not Null	None
Address	Varchar(255)	Not Null	None
sts	int(11)	Not Null	0

Categories:-

Fields	Data type	Constraint	Default
no	int(11)	Primary Key	None
cname	Varchar(255)	Not Null	None

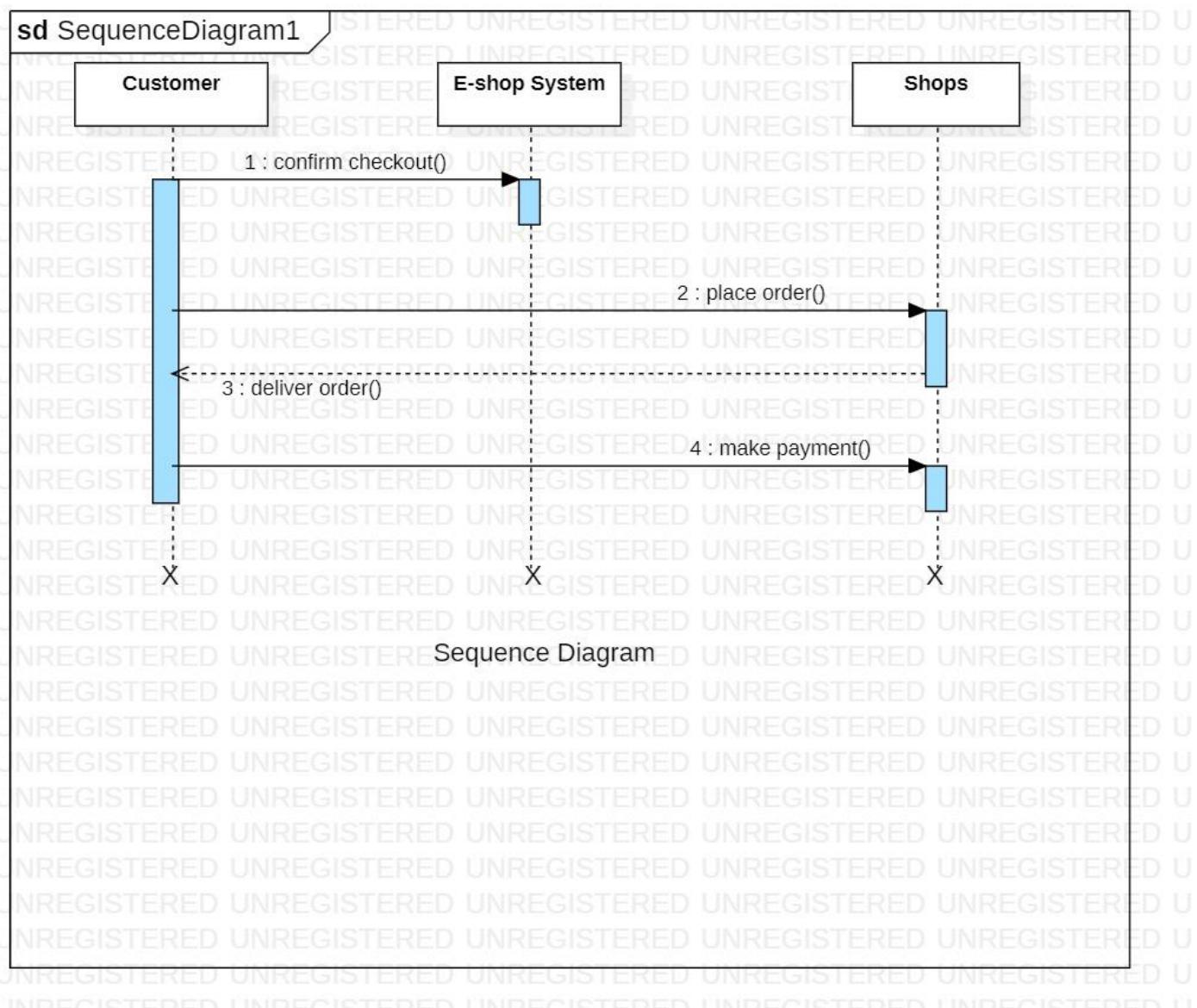
UML Diagram's :-

1) Class Diagram :-

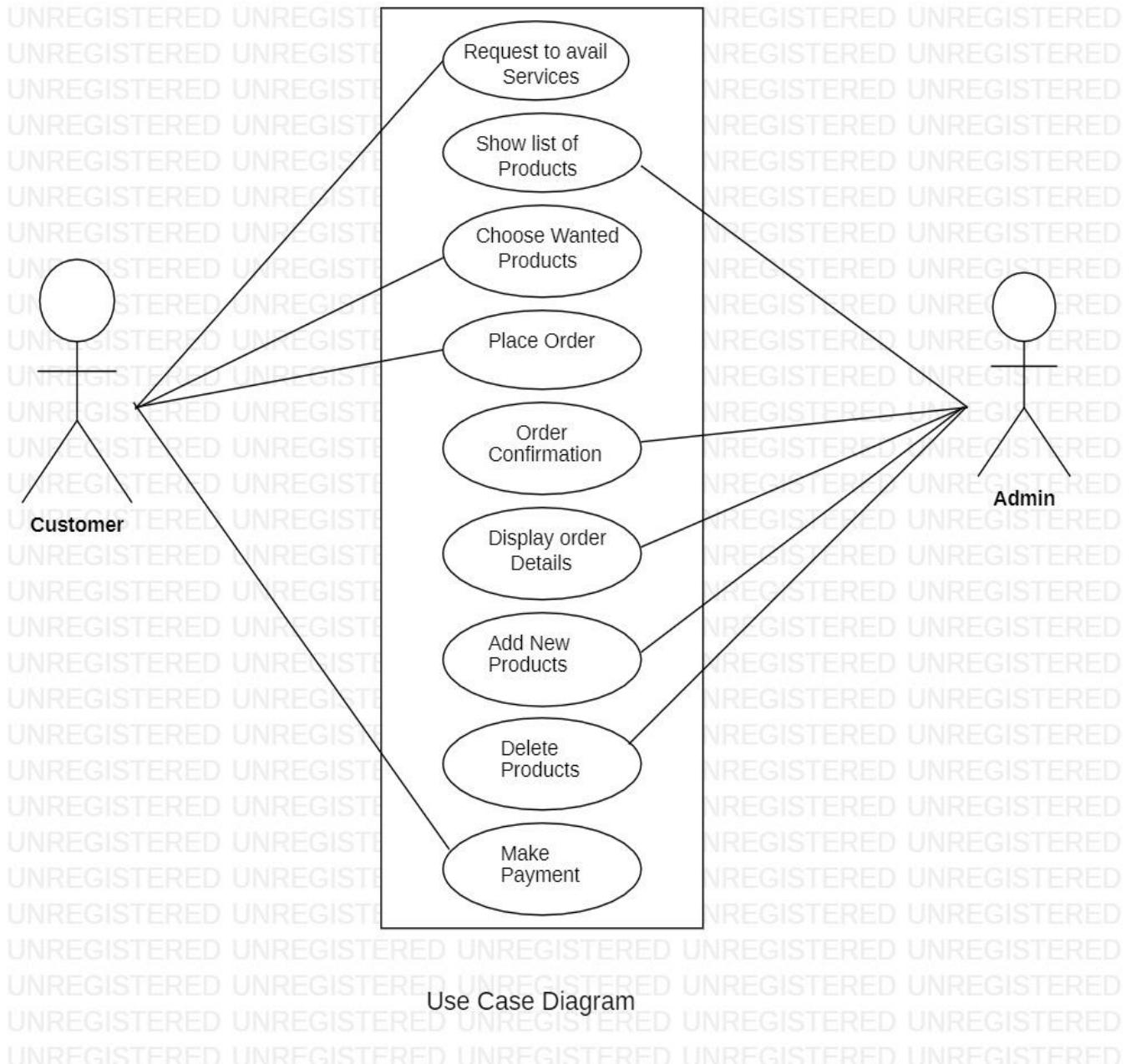


Class Diagram

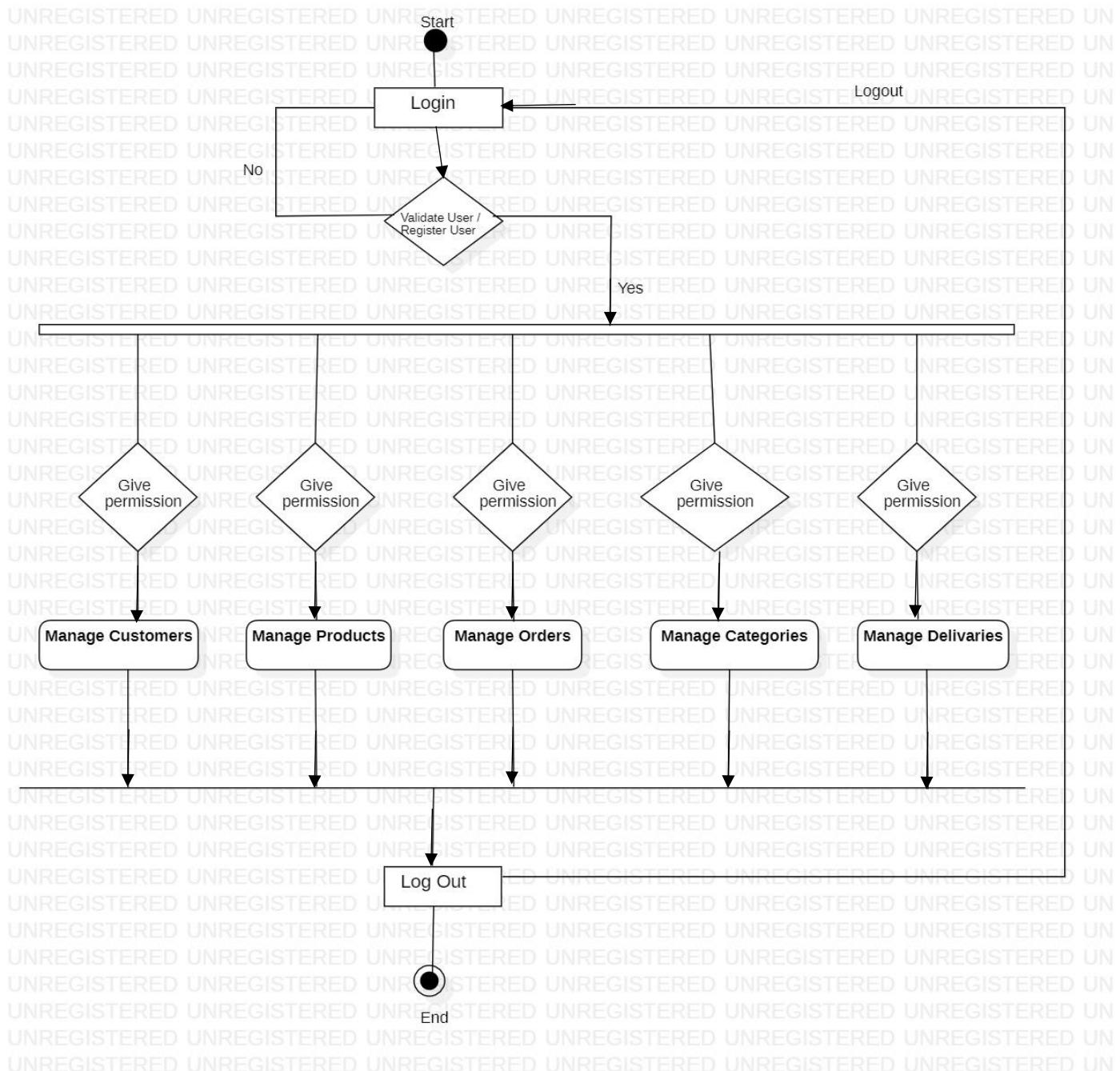
2) Sequence Diagram :-



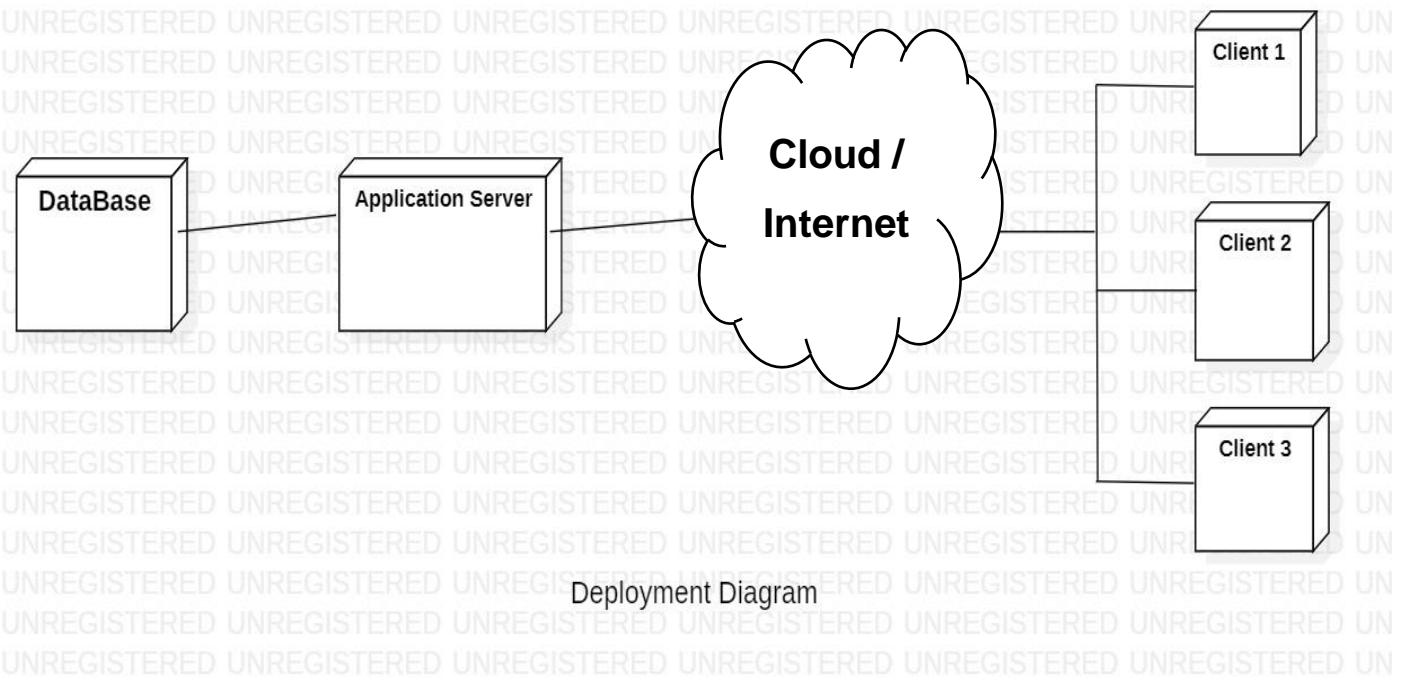
3) Use-Case Diagram :-



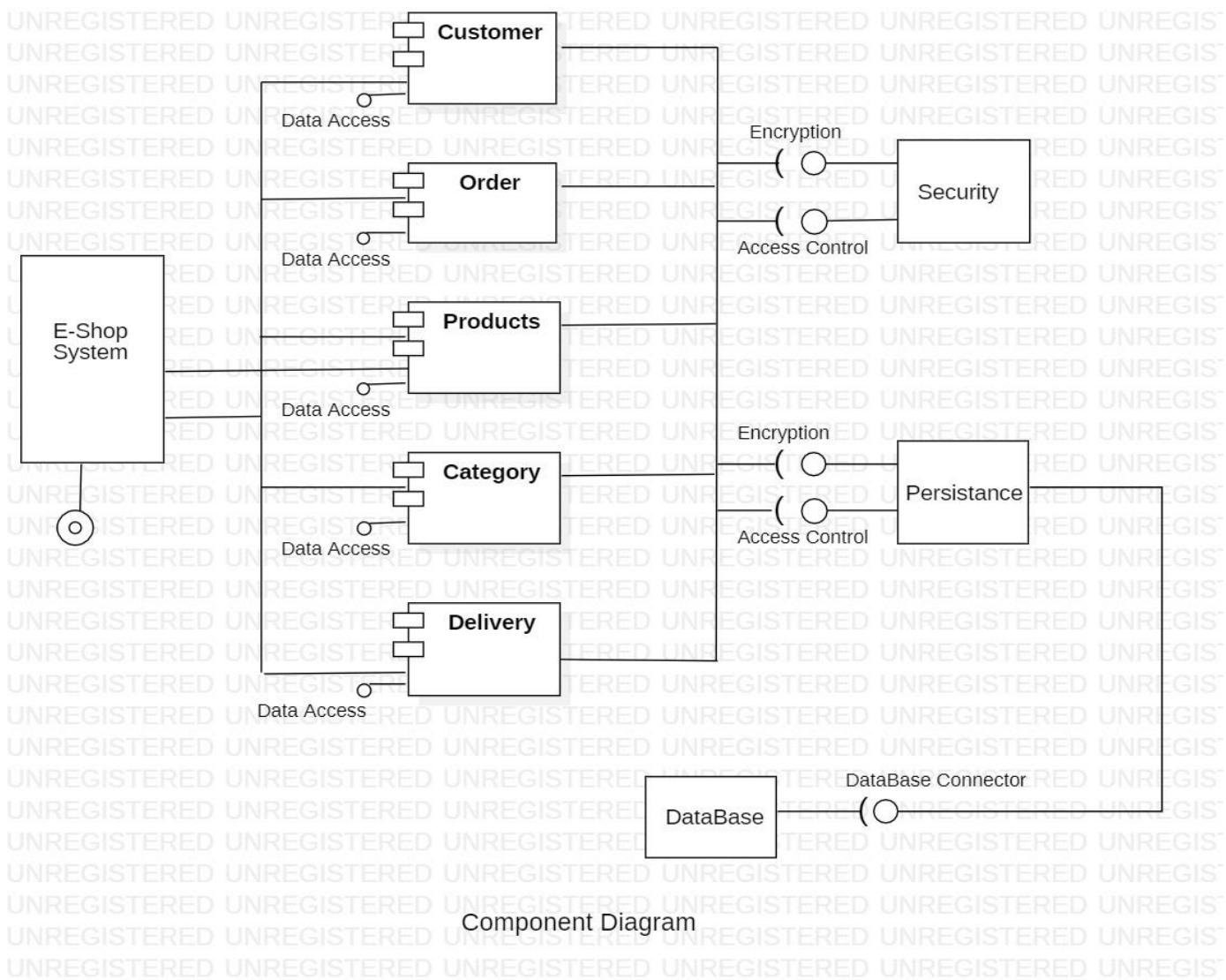
4) Activity Diagram :-



5) Deployment Diagram :-



6) Component Diagram :-



Coding :-

1) Login Form :-

```
{% extends 'base.html' %}

{% block content %}

<div class="container">
    <div class="p-3 m-3">
        <div class="col-lg-5 rounded mx-auto border pt-4">
            <div class="text-center col">

                
                <hr>
            </div>
            <h3 class="alert alert-light rounded-pill" style="text-align:center" >Login</h3>
            <form action="/login" method="POST">

                {% csrf_token %}

                {% if error%}
                    <div class="alert alert-danger" role="alert">
                        {{error}}
                    </div>
                {% endif %}
                <!-- email -->
                <div class="form-group">
                    <label for="">Email</label>
                    <input required type="email" name="email" id=""
                           value="{{values.email}}"
                           class=" form-control-sm form-control"
placeholder="abc@gmail.com">
                </div>

                <!-- password -->
                <div class="form-group">
                    <label for="">Password</label>
                    <input type="password"
                           name="password"
                           id=""
                           class="form-control form-control-sm" >
                </div>

                <!--Checkme button-->
                <div class="mb-3 form-check">
                    <input type="checkbox" class="form-check-input"
                           id="exampleCheck1">
                    <label class="form-check-label d-grid gap-2"
                           for="exampleCheck1">Check me out</label>
                </div>
```

```

        <hr>
        <button type="submit" class="btn btn-sm btn-success
col-lg-12">Login</button>

    </form>
</div>
</div>
</div>

{%- endblock %}

```

2) Products :-

```

from django.db import models
from .category import Category
class Products(models.Model):
    name = models.CharField(max_length=60)
    price= models.IntegerField(default=0)
    category=
models.ForeignKey(Category,on_delete=models.CASCADE,default=1 )
    description= models.CharField(max_length=250, default='',
blank=True, null= True)
    image= models.ImageField(upload_to='uploads/products/')

    @staticmethod
    def get_products_by_id(ids):
        return Products.objects.filter (id__in=ids)
    @staticmethod
    def get_all_products():
        return Products.objects.all()

    @staticmethod
    def get_all_products_by_categoryid(category_id):
        if category_id:
            return Products.objects.filter (category=category_id)
        else:
            return Products.get_all_products();

```

3) Checkout :-

```

from django.shortcuts import render, redirect

from django.contrib.auth.hashers import check_password
from store.models.customer import Customer
from django.views import View

from store.models.product import Products
from store.models.orders import Order


class CheckOut(View):
    def post(self, request):
        address = request.POST.get('address')
        phone = request.POST.get('phone')
        customer = request.session.get('customer')

```

```

cart = request.session.get('cart')
products = Products.get_products_by_id(list(cart.keys()))
print(address, phone, customer, cart, products)

for product in products:
    print(cart.get(str(product.id)))
    order = Order(customer=Customer(id=customer),
                  product=product,
                  price=product.price,
                  address=address,
                  phone=phone,
                  quantity=cart.get(str(product.id)))
    order.save()
request.session['cart'] = {}

return redirect('cart')

```

4) Cart :-

```

from django.shortcuts import render, redirect

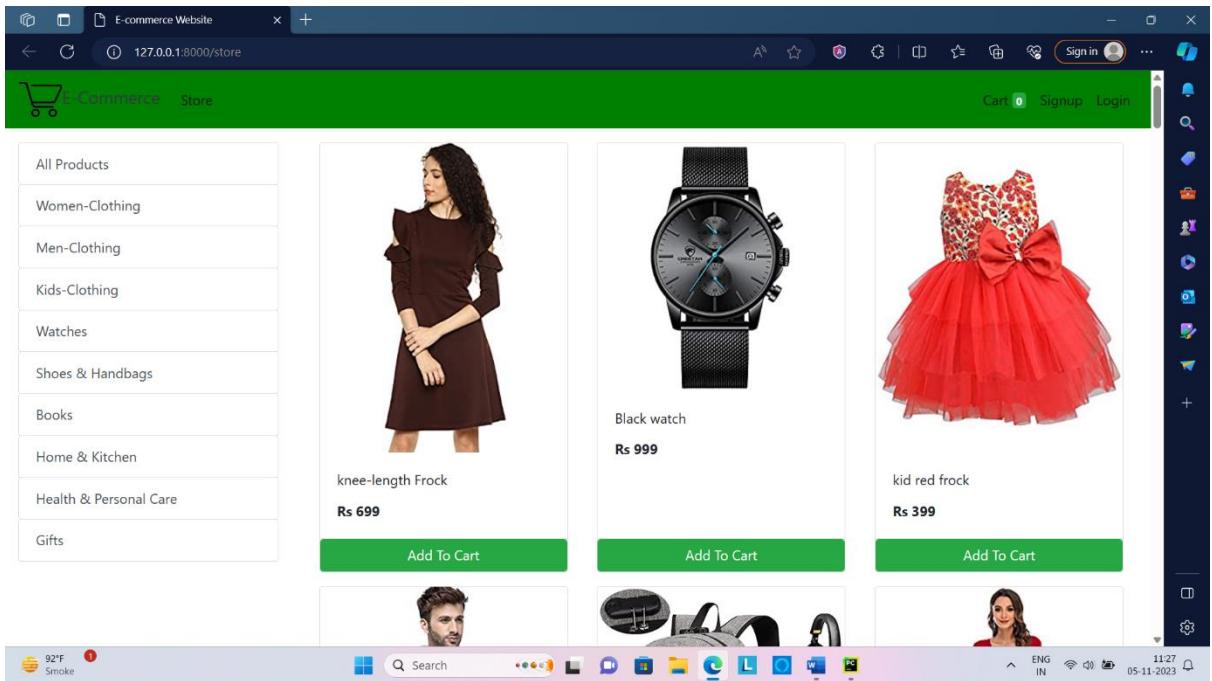
from django.contrib.auth.hashers import check_password
from store.models.customer import Customer
from django.views import View
from store.models.product import Products

class Cart(View):
    def get(self, request):
        ids = list(request.session.get('cart').keys())
        products = Products.get_products_by_id(ids)
        print(products)
        return render(request, 'cart.html', {'products': products})

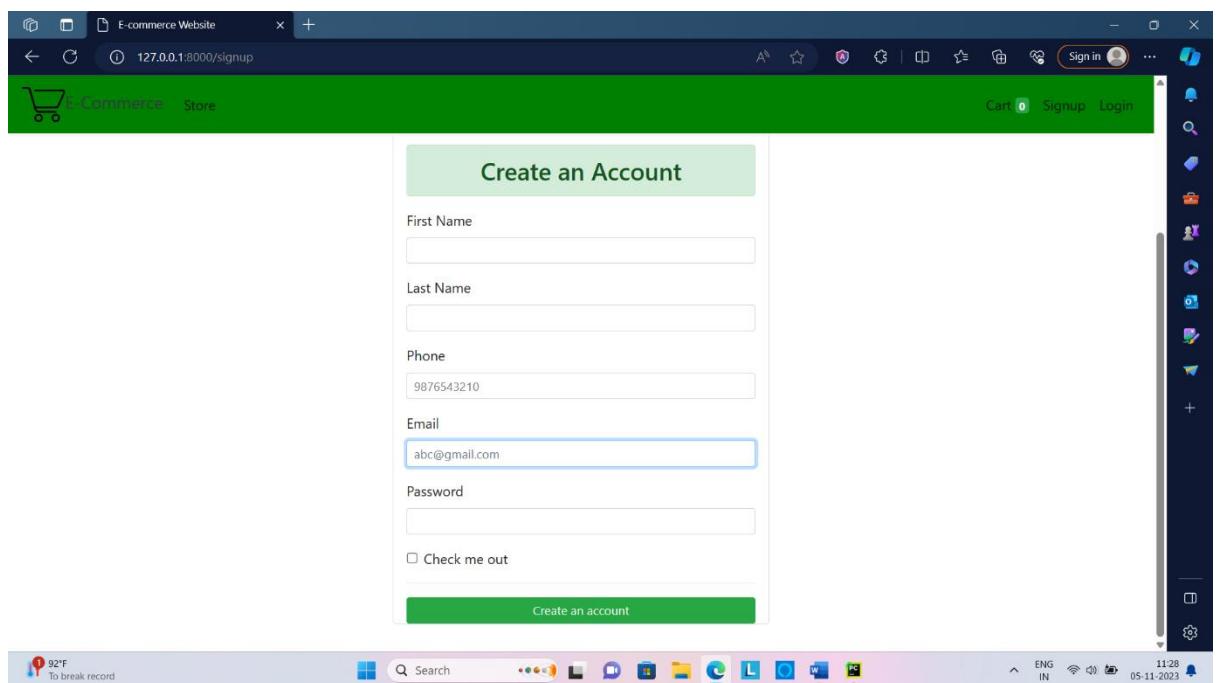
```

Input/Output Screen's :-

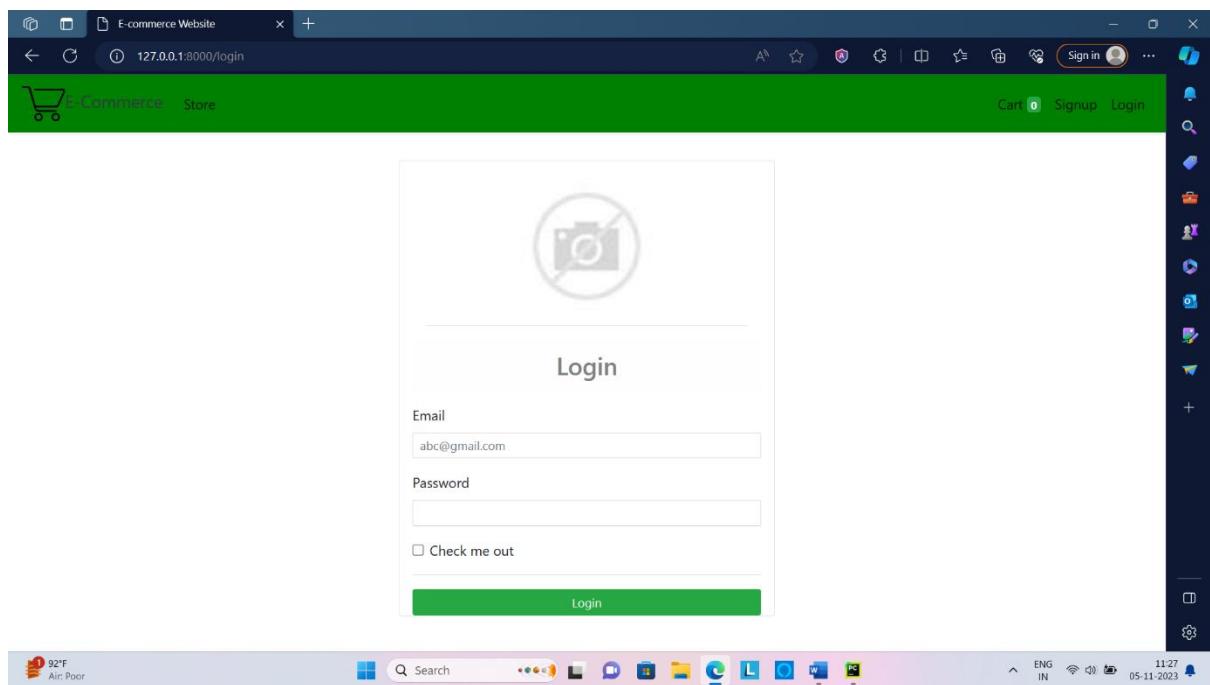
1) Home :-



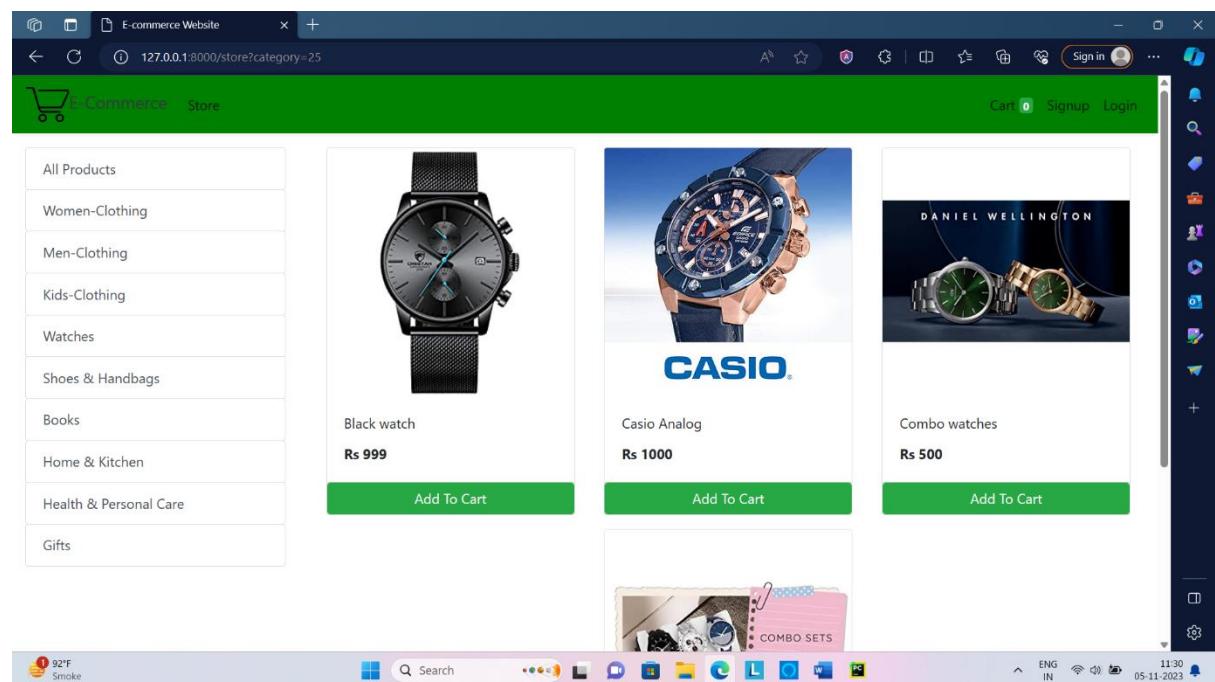
2) Registration / Sign Up:-



3) Login :-



4) Products :-



5) Order Products :-

The screenshot shows a browser window titled "E-commerce Website" with the URL "127.0.0.1:8000/cart". The page has a green header bar with a shopping cart icon, "E-Commerce", "Store", "Cart 1", "Orders", and "Logout". Below the header is a table titled "Your Cart" with the following data:

Sno.	Image	Product	Price	Quantity	Total
1		Black watch	Rs 999	1	Rs 999

At the bottom right of the cart area is a "Check out" button. The status bar at the bottom of the screen shows "92°F Smoke" and the date "05-11-2023".

6) My Order's :-

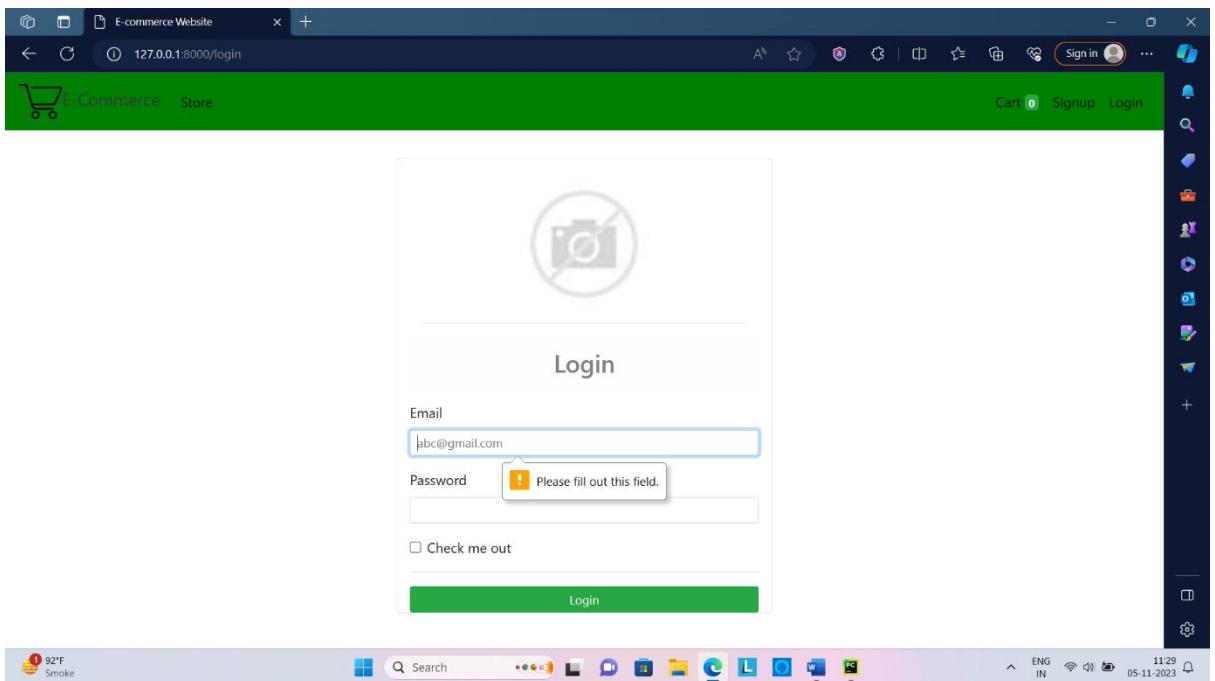
The screenshot shows a browser window titled "E-commerce Website" with the URL "127.0.0.1:8000/orders". The page has a green header bar with a shopping cart icon, "E-Commerce", "Store", "Cart 0", "Orders", and "Logout". Below the header is a table titled "Your Orders" with the following data:

Sno.	Image	Product	Date	Price	Quantity	Total	Status
1		Black watch	Nov. 5, 2023	Rs 999	1	Rs 999	Pending
2		Casio Analog	Nov. 4, 2023	Rs 1000	2	Rs 2000	Pending

The status bar at the bottom of the screen shows "92°F Smoke" and the date "05-11-2023".

Test Cases :-

1) Login Form :-



Test Scenario id	Test Case	Test Case description	Precondition	Test data	Post condition	Expect Result	Status
TC101	Login Form	After typing correct username and password visit next page	Username must be required password is alphanumeric	username - Hrushikesh@gmail.com password:Hrushi@123	Navigate to the next page	Login successfully	Pass
TC102	Login Form	After typing incorrect username and password visit next page	Username must be required password is alphanumeric	username - ----- password:12345678	Navigate to the next page	Login unsuccessfully	Fail

2) Registration Form :-

The screenshot shows a registration form titled "Create an Account". The form fields are:

- First Name: (empty)
- Last Name: (empty)
- Phone: 9876543210
- Email: abc@gmail.com (highlighted in blue)
- Password: (empty) - with a validation message: "Please fill out this field."
- Check me out
- Create an account**

The browser title is "E-commerce Website" and the URL is "127.0.0.1:8000/signup". The taskbar shows the date "05-11-2023".

Test Scenario id	Test Case	Test Case description	Precondition	Test data	Post condition	Expect Result	Status
TC103	Registration Form	After typing correct Data visit next page	Data must be required	name – Hrushikesh Kankrale phone no.-7774871074	Navigate to the next page	Register successfully	Pass
TC104	Registration Form	After typing incorrect Data visit next page	Data must be required	name – Hrushikesh Kankrale phone no.-7774871074	Navigate to the next page	Register unsuccessfully	Fail

Unique Features Of System :

- This system saves the time of Customers.
- Customers can order any item/product from any place and any time.

Advantages :-

- 1) This system saves the time of Customers.
- 2) Customers can order any item/products from any place and any time.
- 3) Customers can pay the bill by COD also with Safely.

Bibliography :-

Before and at the time of developing the project following Reference Books and Websites are referred which gear us some important guidelines for designing and developing the project and project reports.

➤ Reference Books :-

- ✓ The Complete Reference (Python) – [Martin C. Brown](#)
- ✓ The Complete Reference (HTML and CSS) – Thomas A. Powell.
- ✓ Django for Beginners – William S. Vincent.
- ✓ Web Development with Django - Ben Shaw, Saurabh Badhwar, Chris Guest, Bharath Chandra K S

➤ Websites :-

- ✓ [WWW.W3Schools.com](#)
- ✓ [www.JavatPoint.com](#)