

# The Design and Implementation of E-Commerce Site for Online Shopping

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## **Design and Implementation of E-Commerce Site for Online**

### **ABSTRACT**

In today's fast-changing business environment, it's extremely important to be able to respond to client needs in the most effective and timely manner. If your customers wish to see your business online and have instant access to your products or services.

Online Shopping is a lifestyle e-commerce web application, which retails various fashion and lifestyle products. This project allows viewing various products available enables registered users to purchase desired products instantly using PayPal payment processor (Instant Pay) and also can place order by using Cash on Delivery (Pay Later) option. This project provides an easy access to Administrators and Managers to view orders placed using Pay Later and Instant Pay options.

This is a project with the objective to develop a basic website where a consumer is provided with a shopping cart application and also to know about the technologies used to develop such an application.

This document will discuss each of the underlying technologies to create and implement an e-commerce website. The designed application will have an admin view and the public or guest view. The admin view is meant for the administrator to update the products, change prices, remove and add products and also manage customers. The customer view will be accessible to the customers, and they will be able to handle their information such as their name, address, and contact. Also, the customer will be able to order for product from the shop.

## **Acknowledgment**

I would like to thank my project teammate for their contributing to the completion of “The Design and Implementation of E-Commerce Site for Online Shopping”

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# **Design and Implementation of E-Commerce Site for Online**

## **1.0 INTRODUCTION:**

E-commerce is fast gaining ground as an accepted and used business paradigm. More and more business houses are implementing web sites providing functionality for performing commercial transactions over the web. It is reasonable to say that the process of shopping on the web is becoming commonplace.

E-commerce shops have become part of our daily lives. Technological advancement has made it possible for people to sit in the convenience of their homes and still shop online without going to a physical shop. Africans have also joined the trend of e-commerce business, so this project is meant to design an ecommerce online shop so that the people in Ghana (Africa) will be able to purchase their goods and services online. This project is mainly divided into two main categories: The Administrators and the Customers/Users.

The objective of this project is to develop a general purpose e-commerce store where product like clothes can be bought from the comfort of home through the Internet. However, for implementation purposes, this paper will deal with an online shopping for clothes.

An online store is a virtual store on the Internet where customers can browse the catalog and select products of interest. The selected items may be collected in a shopping cart. At checkout time, the items in the shopping cart will be presented as an order. At that time, more information will be needed to complete the transaction. Usually, the customer will be asked to fill or select a billing address, a shipping address, a shipping option, and payment information such as credit card number. An e-mail notification is sent to the customer as soon as the order is placed.

## **2.0 OVERALL DESCRIPTION:**

### **2.1 Description:**

1. Any member can register and view available products.
2. Only registered member can purchase multiple products regardless of quantity.
3. Contact Us page is available to contact Admin for queries.
4. There are three roles available: Visitor, User and Admin.
  - ✓ Visitor can view available products.
  - ✓ User can view and purchase products.
  - ✓ An Admin has some extra privilege including all privilege of visitor and user.
  - ✓ Admin can add products, edit product information and add/remove product.
  - ✓ Admin can add user, edit user information and can remove user.
  - ✓ Admin can ship order to user based on order placed by sending mail.

## 2.2 Using the code!

1. Attach the database in your "SQL Server Management Studio Express".
2. Run the application on Microsoft Visual Studio as web site.
3. Locate the database.

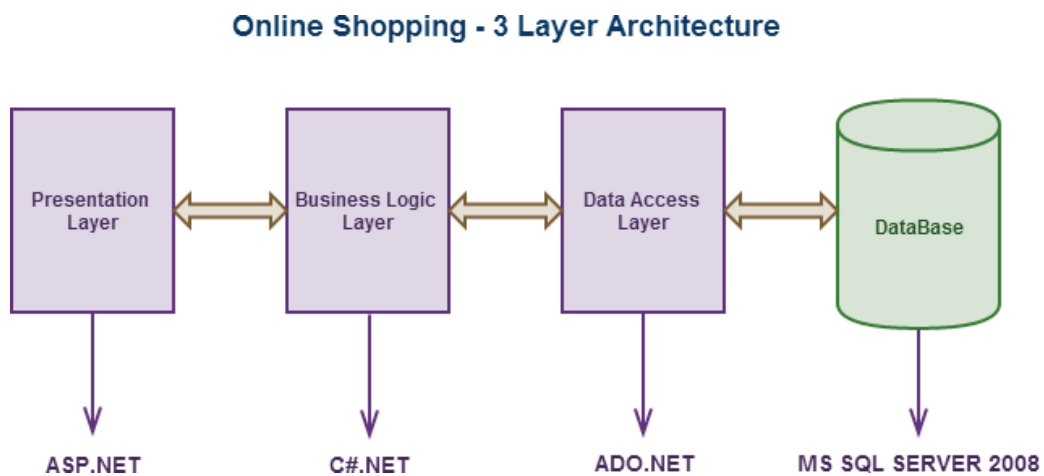
### Master Page details:

- ❖ OnlineShopping Master Page (Similar MasterPage for Visitor, User and Admin)

### 2.2 Web Pages details:

- Home Page
- Product page
- Clothing Page
- OrderUs Page
- ContactUs Page
- Admin Page
- Login Page
- Register Page

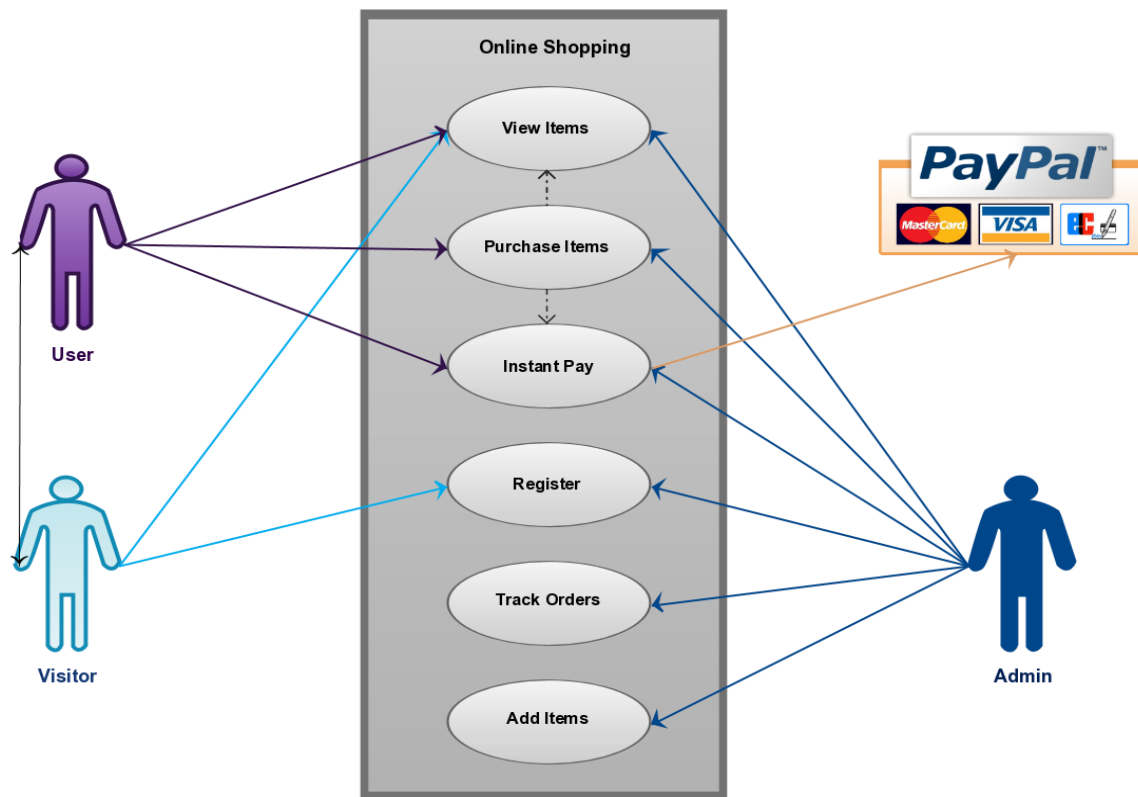
### 2.3 Project Detail:



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## 3.0 SYSTEM REQUIREMENTS:

### 3.1 USE-CASE DIAGRAM:





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### 4.0 ONLINE SHOPPING APPLICATION:

Anyone can view Online Shopping portal and available products, but every user must login by his/her Username and password in order to purchase or order products. Unregistered members can register by navigating to registration page. Only Admin will have access to modify roles, by default developer can only be an 'Admin'. Once user register site, his default role will be 'User'.

**4.1 HOMEPAGE:** The Home Screen will consist of screen were one can browse through the products which we have on our website

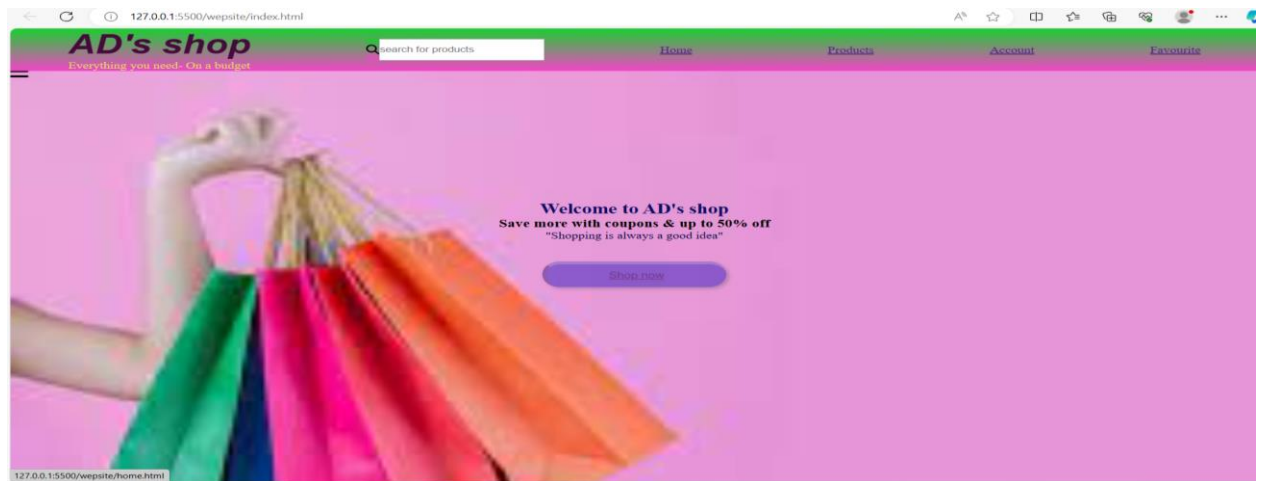


Figure no:1.1 home page

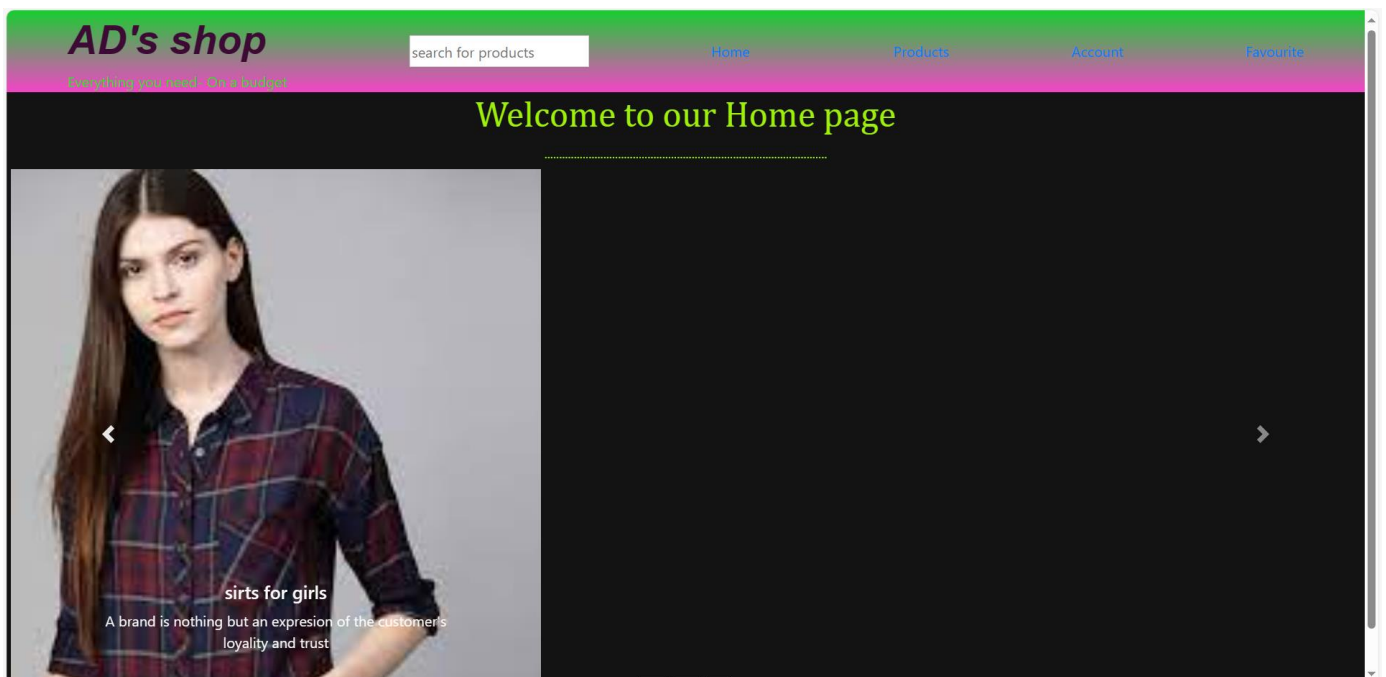


Figure no:1.2 home page

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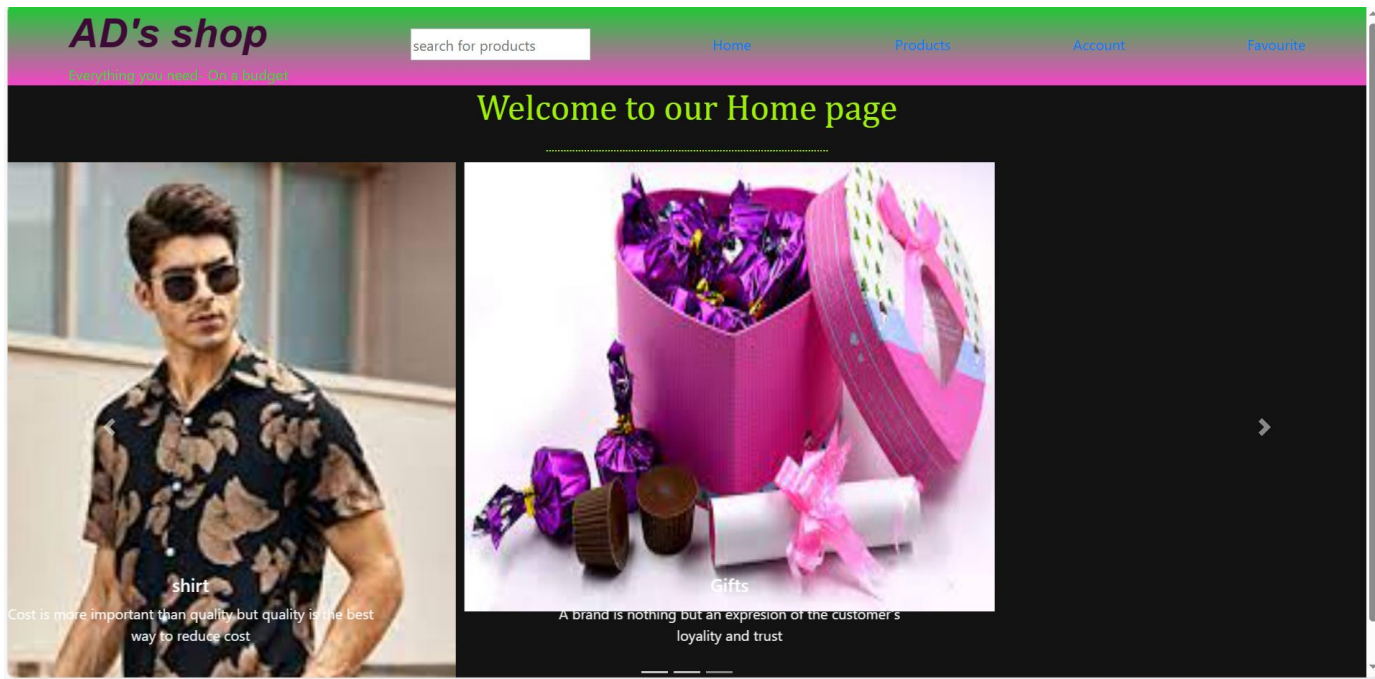


Figure no:1.3home page

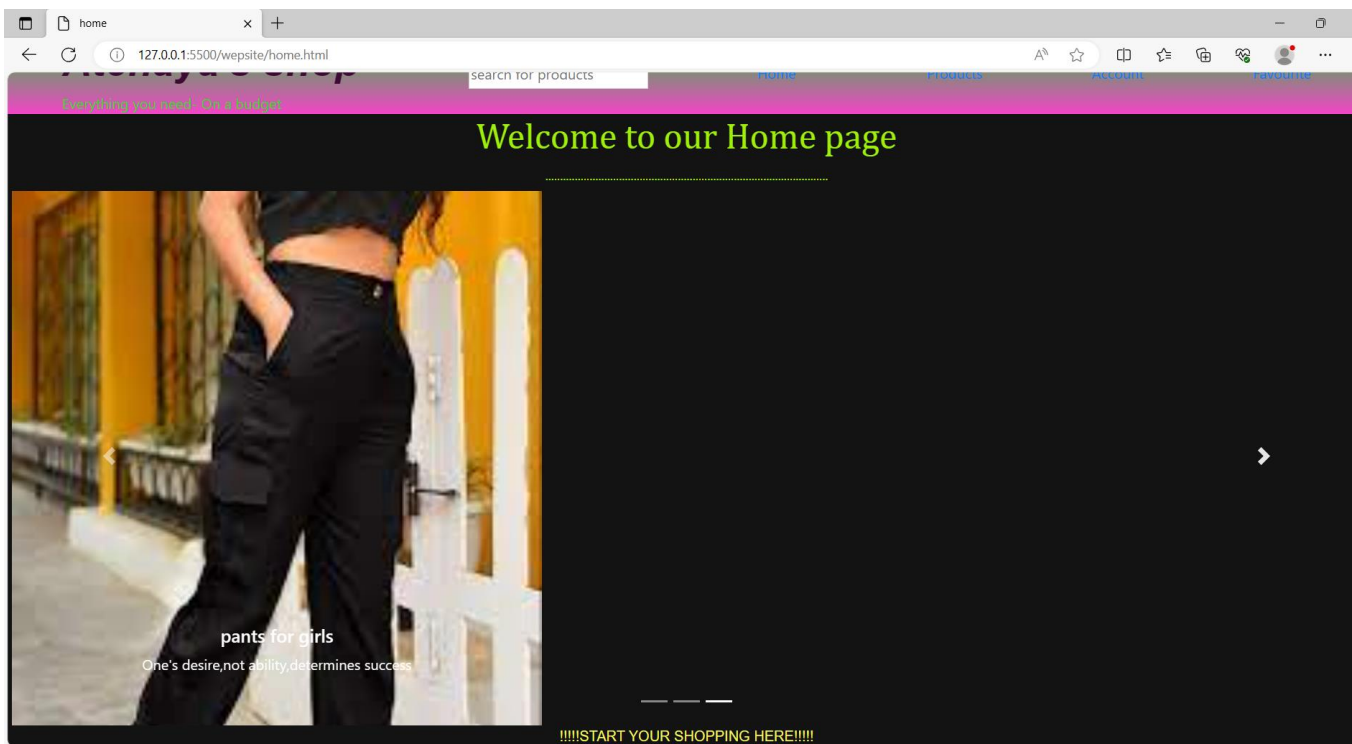


Figure no:1.4 home page

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### 4.2PRODUCTS:

This page consists of product details. This page appears same for both visitors and users.

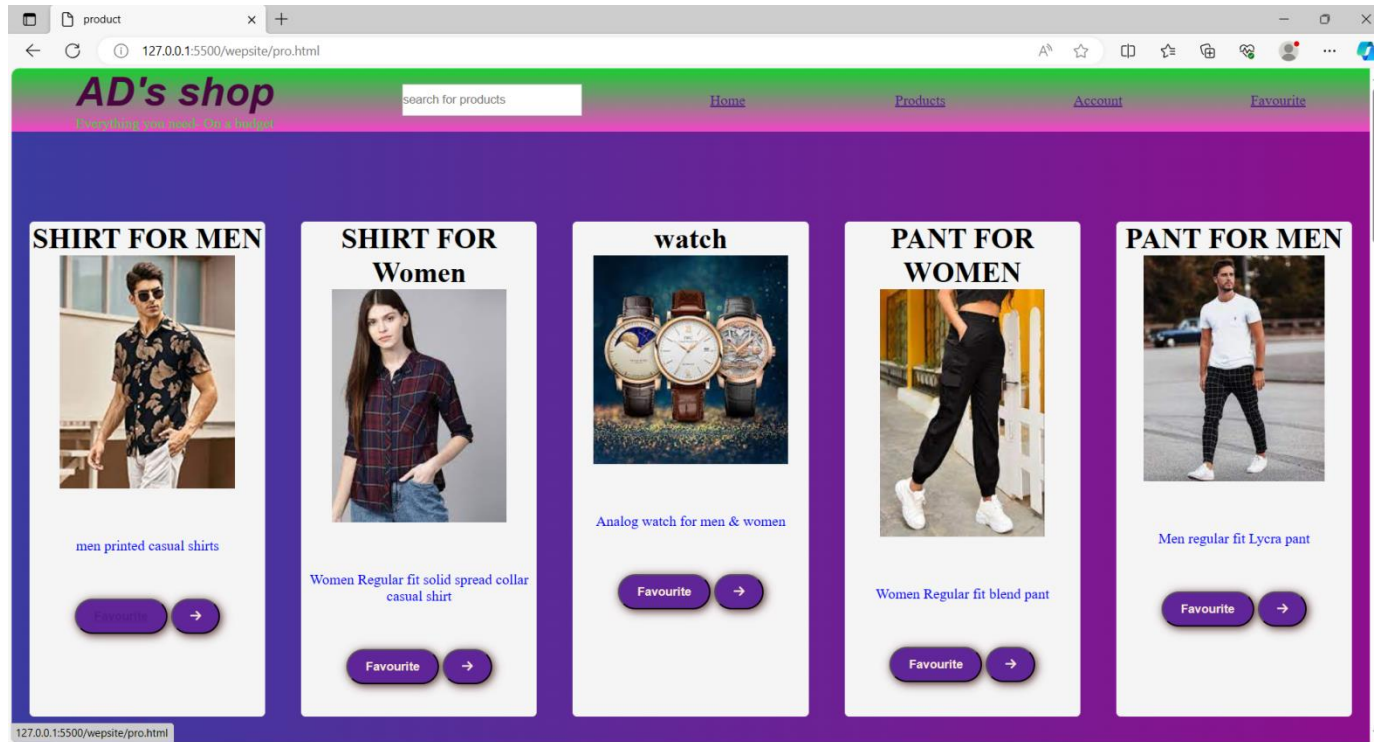


Figure no:1.5 Product Page

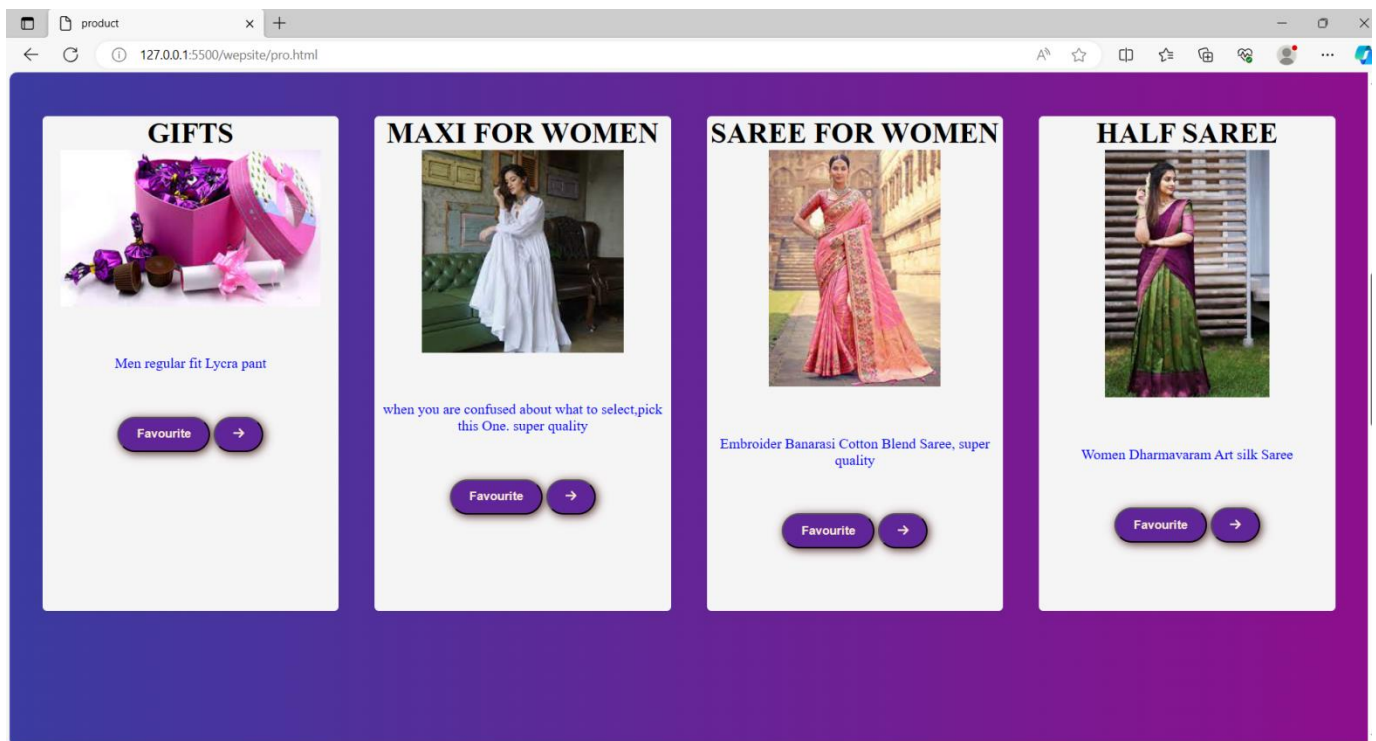


Figure no:1.6 Product Page

## Design and Implementation of E-Commerce Site for Online

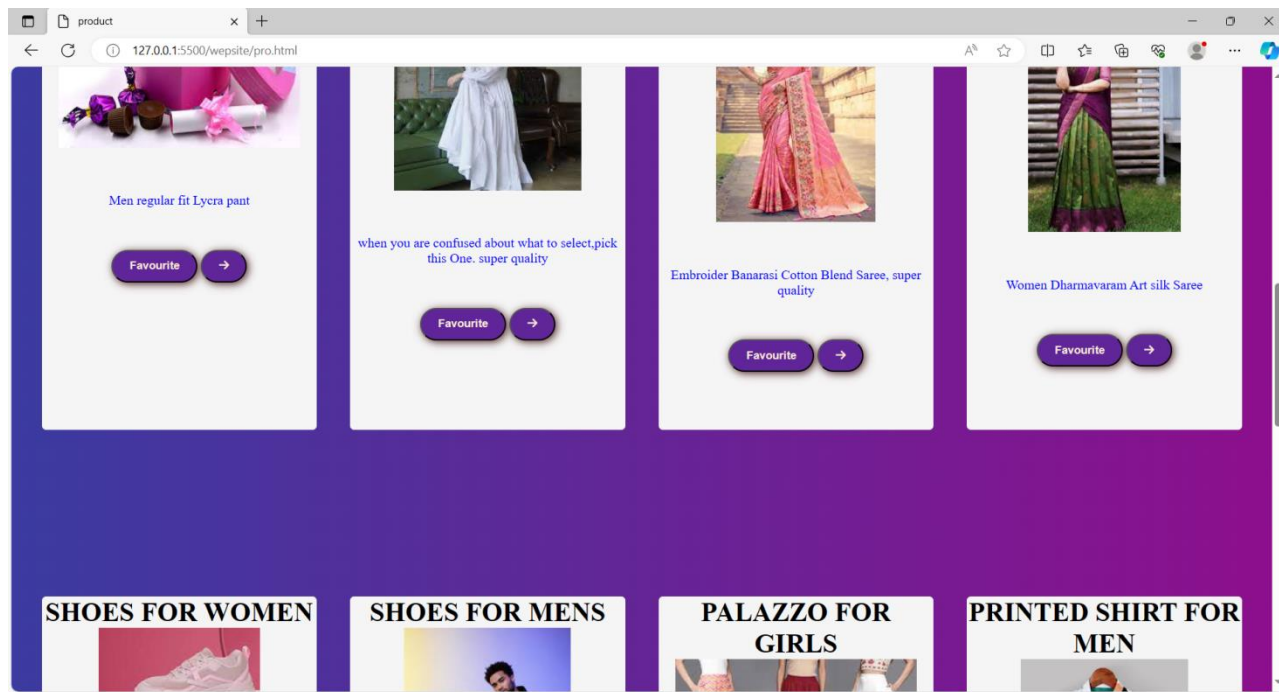


Figure no:1.7 product page

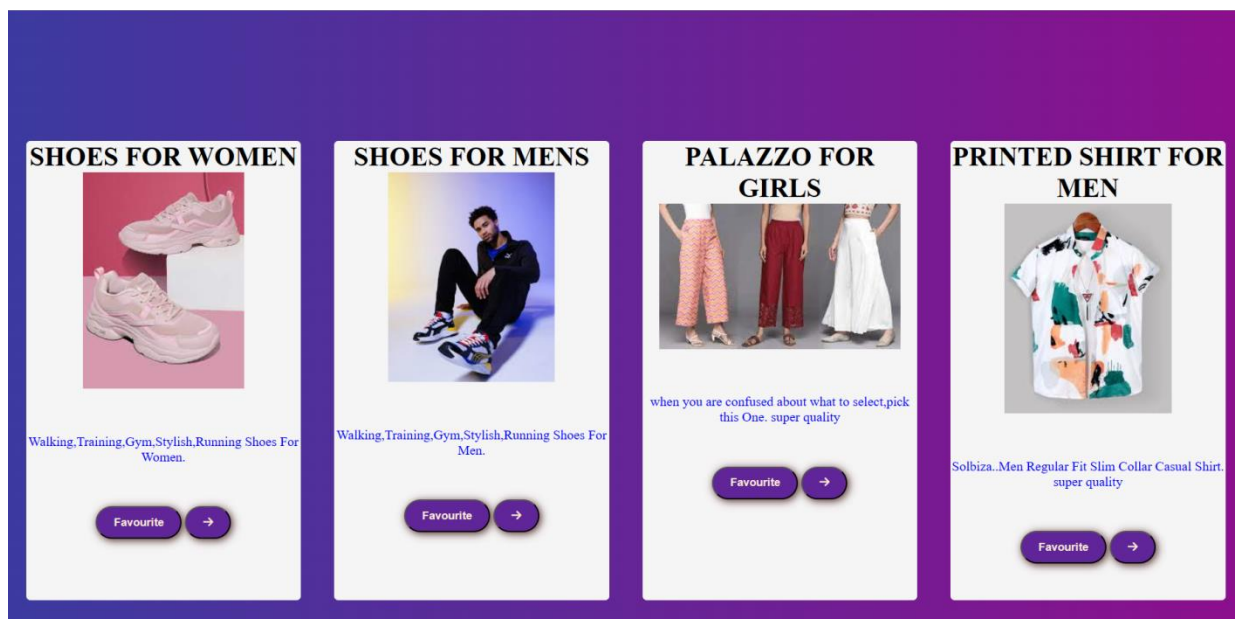


Figure no:1.8 Product Page



#### 4.3 LOGIN PAGE: Login page for both users and administrators.

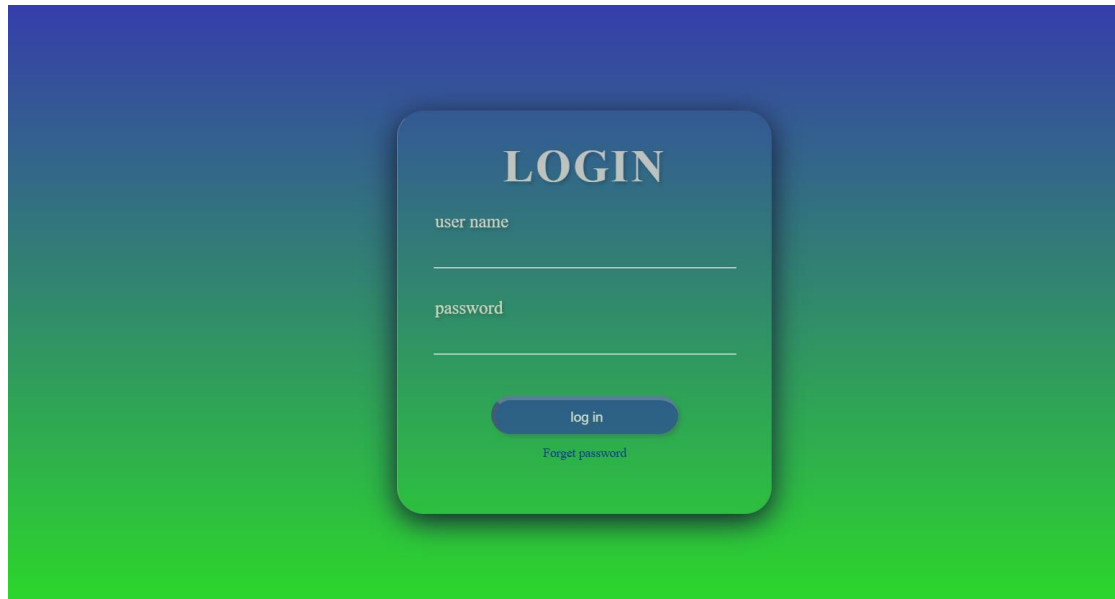


Figure no:1.9 login Page

The administrators can log in with their username and password. If there is no match for the information provided he or she will remain on the same page until the correct data are inserted into the login space.

#### 4.4CART PAGE:

- ❖ This page describes about user can save their favorite item and place order
- ❖ The customer can add products to the shopping cart. They can also update the shopping cart from time to time until they are done shopping. After that, they can check out by clicking on the checkout button.

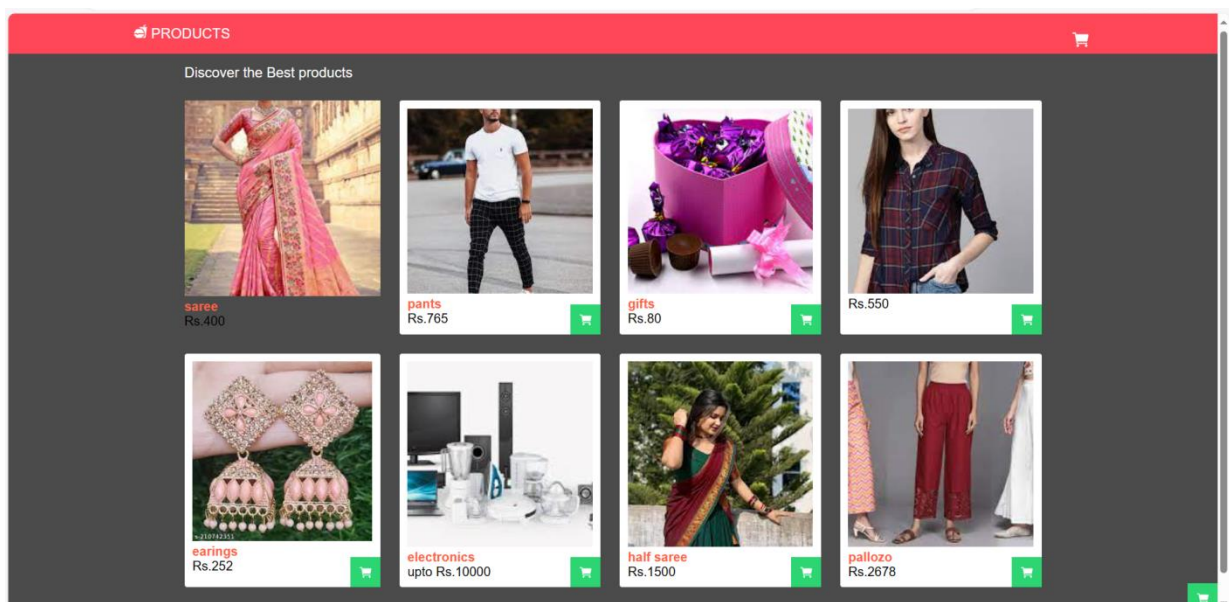


Figure no:1.10 Cart Page

## Design and Implementation of E-Commerce Site for Online

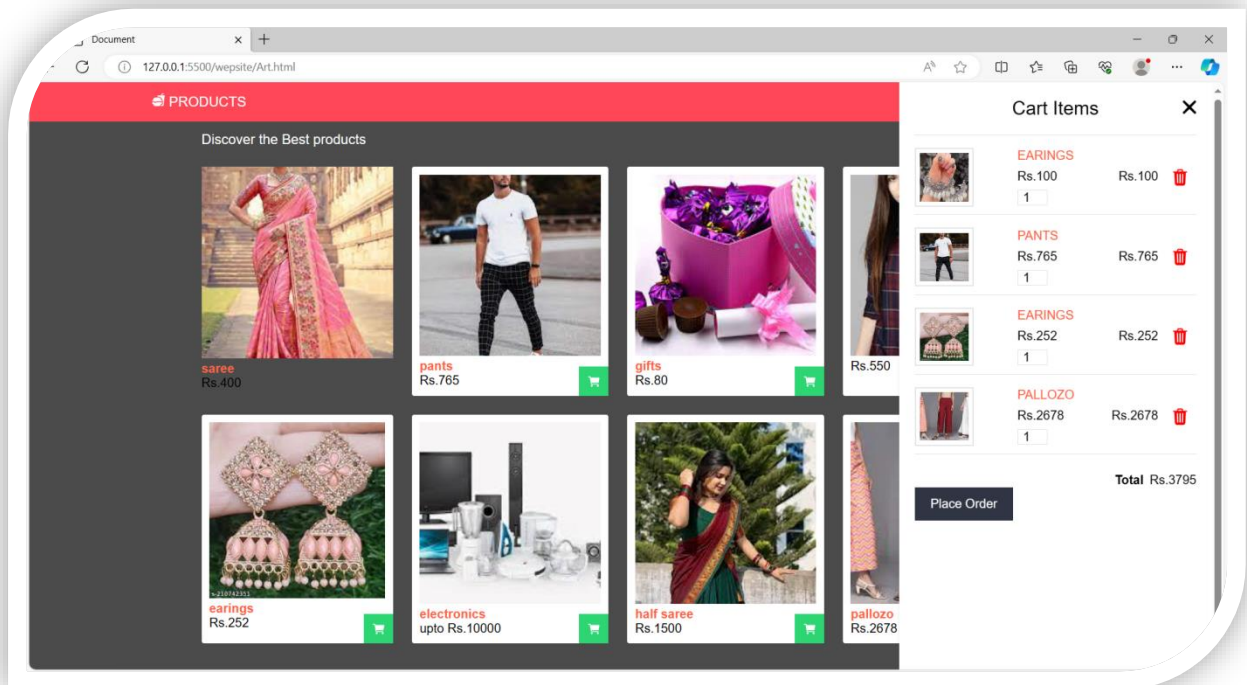


Figure no:1.11 Cart Page

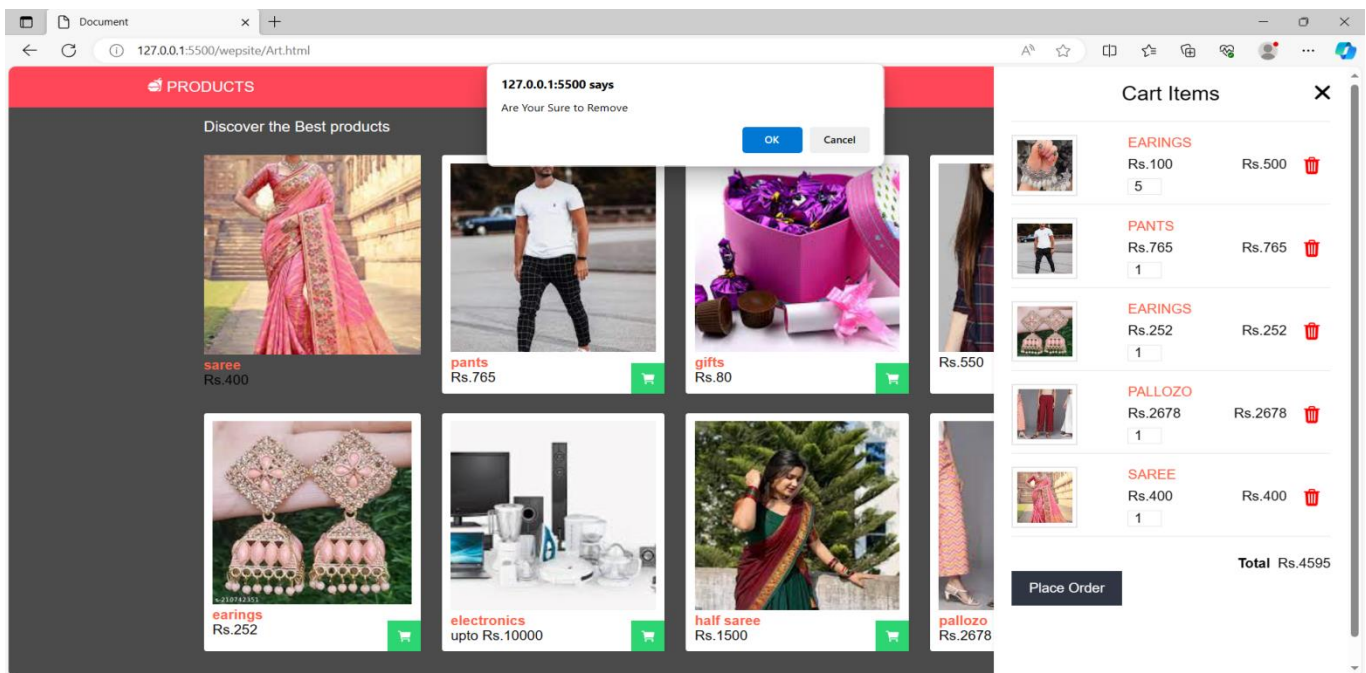


Figure no: 1.12 Cart Page

## 5.0 Data Management

### 5.0 Data Description

This database consists of

- Users: User and Admin information is added to database with Unique ID based on their roles.
- Shopping: Complete products information is stored in this table.
- Orders: Customer ordered products, status and delivery information is stored in this table.

### 5.1 Data Objects

- User: ID, UserName, Password, Email, Role
- Shopping: ID, Product, Product ID, Cost, Category, Image, Description
- Orders: ID, Client, Product, Quantity, Price, Date, OrderShipped

### 5.2 Relationships:

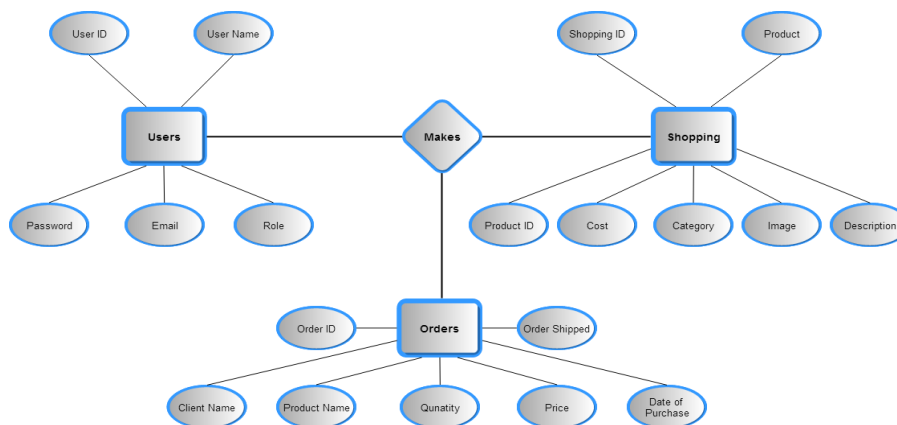


Figure no:1.13 use case diagram for between the orders

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### **6.0 Non-Functional / Operational Requirements**

#### **6.0 Security**

- Pages of the website must be access in the way they were intended to be accessed.  
Included files shall not be accessed outside of their parent file.
- Administrator can only perform administrative task on pages they are privileged to access. Customers will not be allowed to access the administrator pages.

#### **6.1 Efficiency and Maintainability**

- Page loads should be returned and formatted in a timely fashion depending on the request being made.
- Administrators will have the ability to edit the aspects of the order forms, product descriptions, prices and website directly

### **7.0 Conclusion:**

The electronic shop was developed using MySQL, HTML5 and CSS3 technology. Any consumer can browse products, add, replace or delete a product from the cart. The consumer can log in, with his information such as his email and password. If the login does not go through, the user can re-register or ask to change the password. After login, the user can see the product in the cart and proceed onwards. The ordered price is saved in the database.

### **8.0 FUTURE IMPROVEMENT**

Invoices need to be implemented in the shop, emails and notifications needs to be sent to customers for new arrivals or discount. The shop has to have a search engine where users and customers can search for the various product from the shop. Debit and credit cards needs to be implemented in the shop as well. There have to be language varieties so that none-English users and customers can shop easily without any difficulty

### **9.0 REFERENCE**

/1/www.w3school.com

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%20Hypertext%20Preprocessor.pdf/4/Javascript academic. Accessed 09.03.2018

/4/http://www.w3schools.com/js/default.asp <https://dev.mysql.com/doc/apis-php/en/apis-php-pdo-mysql.html>

And etc..

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