

**A
PROJECT REPORT
ON
E-Commerce Website**

**Submitted in the partial fulfillment for the award of course
in**

JAVA DULL STACK DEVELOPER

TO,

Edu Bridge

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**Under the Guidance of
Mr. Chittaranjan Ghosh.**



To be continued....

Acknowledgements

In completing this project I have been fortunate to have help, support and encouragement from many people, I would like to acknowledge them for cooperation.

First and foremost deeply I am thankful to Professor. Chittaranjan Ghosh, for his wonderful guidance during this project work in field of Full Stack Java Developer. I am also thankful for his continuous feedback and encouragement throughout this project work. His broad knowledge and hardworking attitude has left me with very deep impressions and they will greatly benefit me throughout the class session.

I would like to thank everyone who helped me and gave support throughout these project work.

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 (Currently Shopping). 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 Administrations and Managers to view orders placed using Pay Later and Instant Pay options.

In order to develop an e-commerce website, a number of Technologies must be studied and understood. These include multi-tiered architecture, server and client side scripting techniques, implementation technologies such as ASP.NET, programming language (such as Java) and relational data. 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.

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1. Introduction

E-commerce is the fastest 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 common place.

The Scope of the project

The objective of this project is to develop a general purpose e-commerce store where any kind of product can be bought from the comfort of home through the internet. However, for implementation purposes, this paper will deal with an online shopping for fashion and decor product;

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 a 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 option and payment information such as Card or Cash on Delivery.

2.Overview

2.1Description:

- Any member can register and view available products.
- Only registered member can purchase multiple products regardless of quantity.
- Contact Us page is available to contact Admin for queries.
- There are two 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 confirmation mail.

2.2 Using the code:

1. Attach the database in your "Visual Studio Code".
2. Run the application on Google Chrome as web site.
3. Local the database.

2.3 Master Page details:

→ Online Shopping Master Page (Similar Master Page for Visitor, User and Admin)

2.4 Web Pages details:

- Home Page
- Cart Page
- Clothing Page
- Order Page
- Profile Page
- Admin Page
- Login Page

3. SOFTWARE & HARDWARE REQUIREMENT

3.1 Software Requirements :

Operating System : Windows 10 or Linux

User Interface : HTML, CSS

Front End : Javascript

Programming Language : Java

Browser : Chrome

3.2 Hardware Requirements:

Processor : Intel Pentium V

Hard Disk : 1.44 MB FDD

RAM : 512MB or more

Monitor : 15" Colour Laptop

Processor Speed : 1.7 GHZ

CD Drive : 52-X CD ROM

4. SYSTEM STUDY

4.1 DEFINITION OF THE SYSTEM

A system is an orderly grouping of independent components linked together according to a plan to achieve a specific objective. Its main characteristics are organization, interaction, independent, integration and central objective a system does not necessarily mean to a computer system. It may be a manual system or any other names.

4.2 NEEDS OF THE SYSTEM

Social and economic factor: a wave of social and economic changes often follows in the wake of the new technology. New opportunities may arise to improve on a production process or to do something that was not previously possible. Changes in the ways individuals are organized into groups may then be necessary, and the new groups may compete for economic resources with established units. Technological factor: people have never before in a time when the scope of scientific inquiry was so broad, so when the speed of applying the new technology accounts for many changes in the organization. High level decisions and operating processes: in response to technological, socio-economical factors, top level managers may decide to recognize operations and introduce new products. To deal with these needs, people commonly seek new modified information to support the decision. When that happens, then they often turn to a computer system for help the information users and data processing specialist then work together to complete a series of steps in a system study to produce output results to satisfy information needs.

4.3 System analysis

System Analysis is a process by which we attribute process or goals to a human activity, determine how well those purpose are being achieved and specify the requirements of the various tools and techniques that are to be used within the system if the system performances are to be achieved.

5. Website Planning

Visitors/Customers: The Individuals will be the end users of the website. They will be able to perform the following tasks:

♣ **Home Page:** This will work as the welcome screen for the Visitors/Customers. Customers can get to know about different plastic accessories and products sold from the website from this page. Customer also can explore all the main pages.

♣ **About Us:** 'About Us' will provide information about the business like inception of the business, how the business grew, etc.

♣ **Products:** Customers can find all the products on the website and can purchase the products from the same website itself. There can be different drop down subpages or the product categories can be individual pages as well. That can be decided during design phase.

♣ **Contact Us:** A 'contact us' page typically contains your business contact information, address, a map and a form wherein your customers can submit queries, feedback, suggestions, comments, sales enquiry etc. These details are sent out to an email address selected by you.

♣ **Search Product:**

⌘ Customer search for products on the website.

⌘ Search module will use "like search" module to provide product suggestion as per the terms used to search.

⌘ Customer can browse for different products on the websites on the home page as well as product page as well.

⌘ Customer now can go to specific products' details page on the website.

⌘ When a customer click on a product they will be redirected to the products' details page where customers can select the quantity they want to order and they add the product to the cart.

⌘ Cart and Checkout module is described in details later.

⌘ To complete the purchase customer/visitor need to register for new user and login for existing user.

♣ **Filter & Search Products:**

- ⌘ Option to filter product in a list by a category, type, price, size, etc.
- ⌘ This will perform as an advance search.

♣ **Product Details** - Image - Price - Quantity - Size - Etc.

♣ **Add to Cart:**

- ⌘ The cart module will be incremented by one when an End-User starts adding products to the cart.
- ⌘ On clicking cart icon, the system will redirect to the cart page with column for: Item Description Quantity Price Apply discount coupon Add product to wish list Sub Total

⌘ **Four buttons at the bottom:**

- Add More
- Delete
- Continue Shopping
- Place Order

⌘ Add More will give clients an option to increase the quantity and Delete will remove the product from cart.

⌘ Place Order will lead to Payment Process and Continue Shopping will allow users to redirected back to the products section so that they can purchase more.

♣ **Check out Module:**

Check out process is divided into three parts:

- Billing & Shipping
- Review & Place Order
- Payment

⌘ **Billing & Shipping Information:**

It will have the required fields:

- First Name
- Last Name
- Email Address
- Phone Address
- Suburb/City
- State
- Post code
- Shipping address will have the same fields.

If both the addresses are same, then on ticking the check box the shipping address fields will get automatically populated. Option for continue checkout. Non Registered Customers need to provide the details for first time. After providing the details and Continue they will get registered on the website and will receive their password on their email. For registered customers the billing and shipping address will get auto populated from their address book. If registered customer wants the order to be delivered to a different address they need to check the box “Add a new address” and they need to provide the address. Existing User need to login during this stage.

☞ **Review & Confirm:** This page will have Billing & Shipping information. Order items will have following records column wise:

- Item with Product Image
- Price
- Quantity
- Total Amount
- Shipping Address and Contact information Customer can change the quantity or remove a product from the list.
 - Order detail will have the following fields of price:
 - Sub-total
 - Discounts
 - Shipping Charges if applied
 - Tax
 - Total
 - Option/Button for place order.

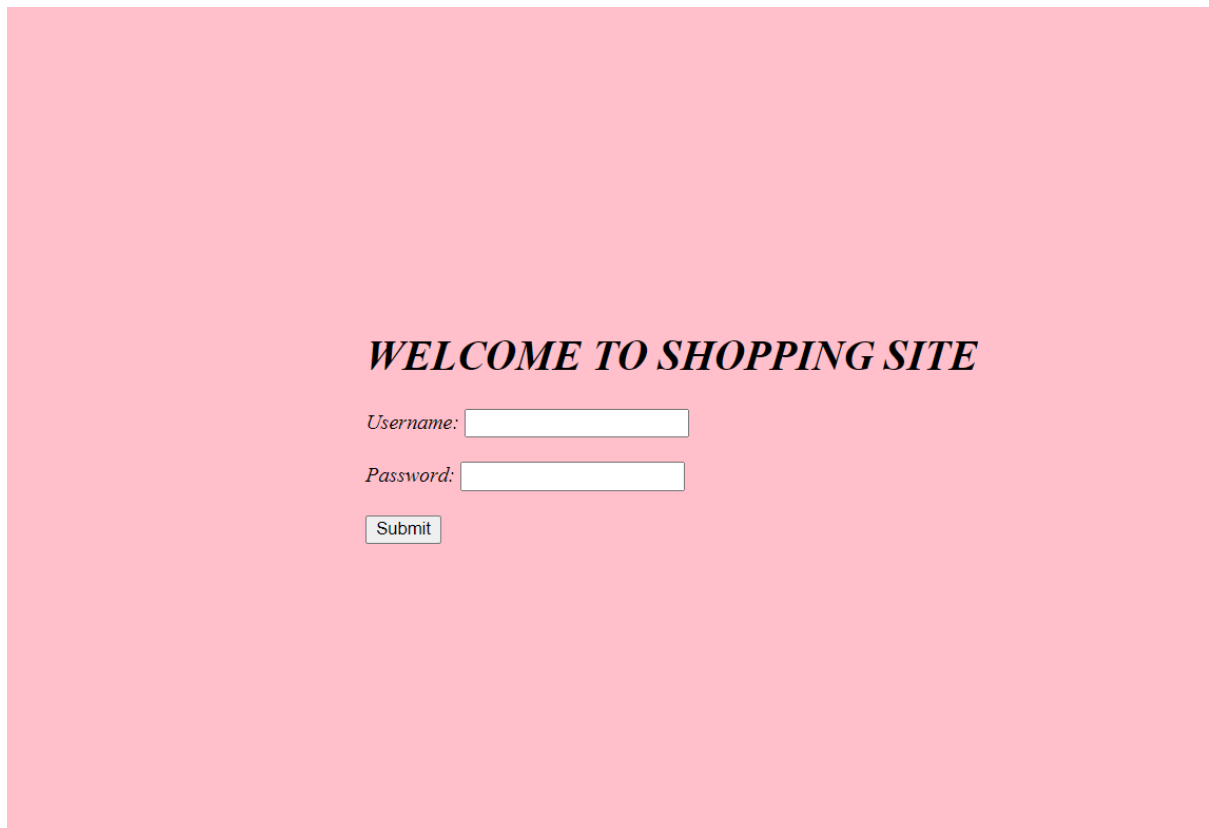
- After placing the Order a confirmation email along with Tax invoice will send to the Users Email id.

⌘ Payment:

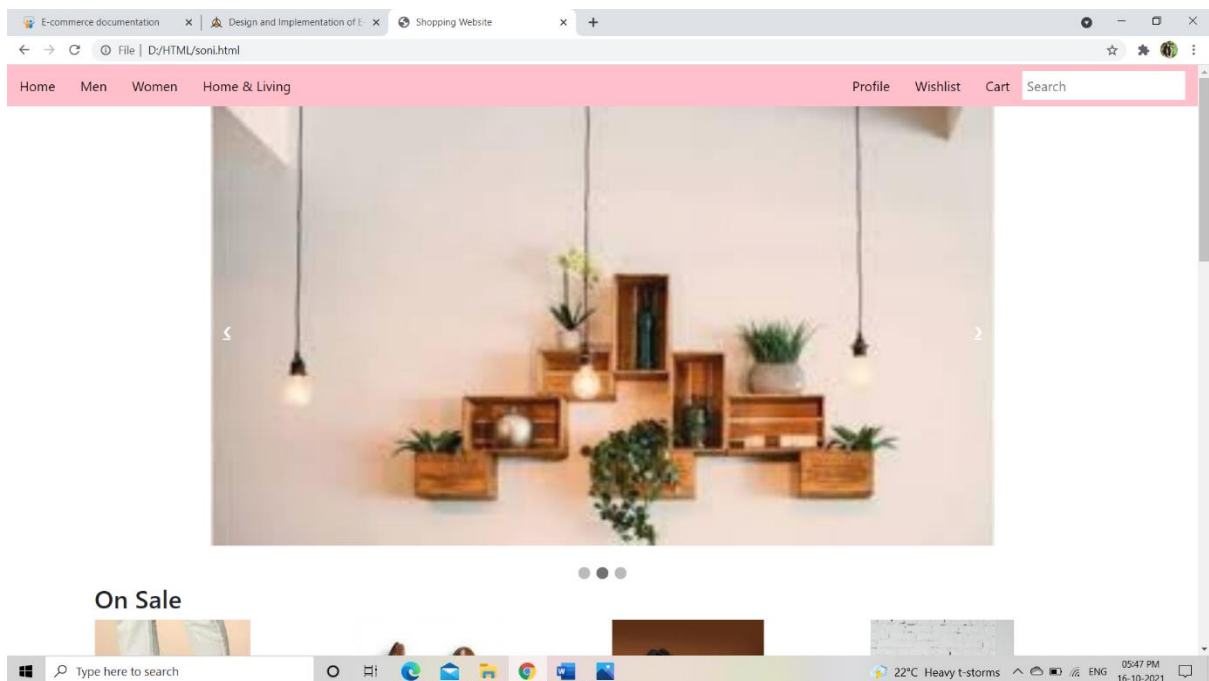
- After entering the Review and Confirm, the next phase is Payment.
- Various mode of payment are available: Visa/Master Card/PayPal Etc.
- (Client needs to provide Payment gateway API) Stripe payment gateway to be used for payments (if required) using Cards.

6. Screenshots:

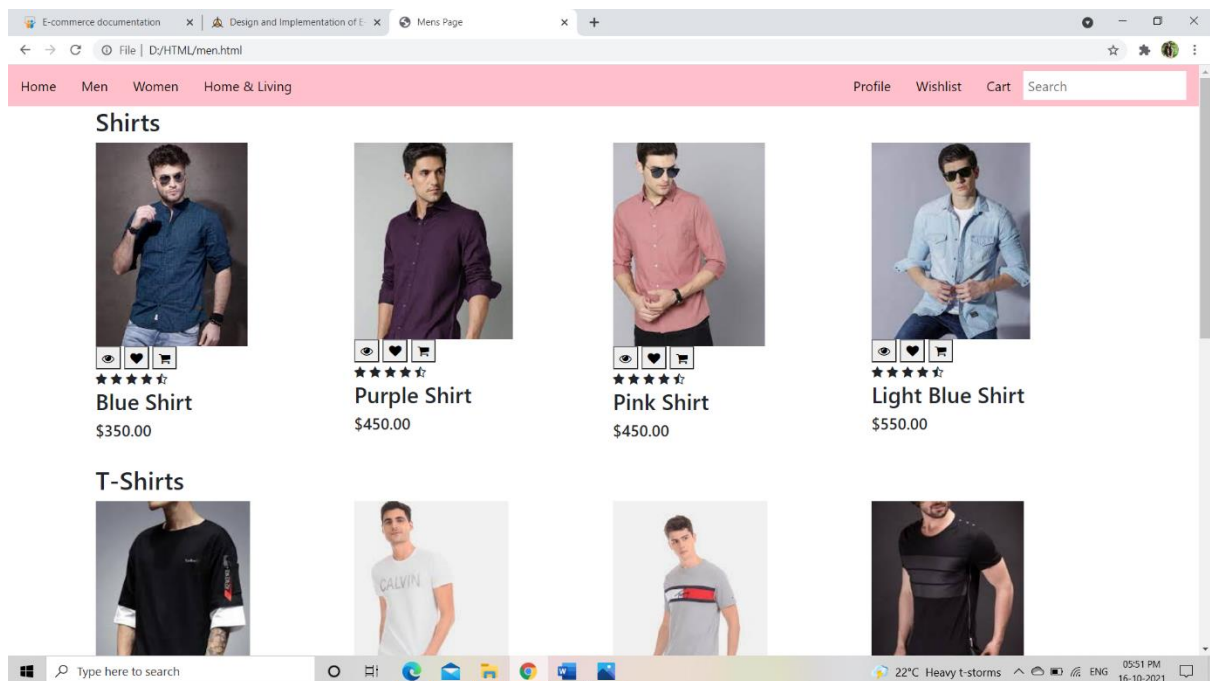
1) Login Page



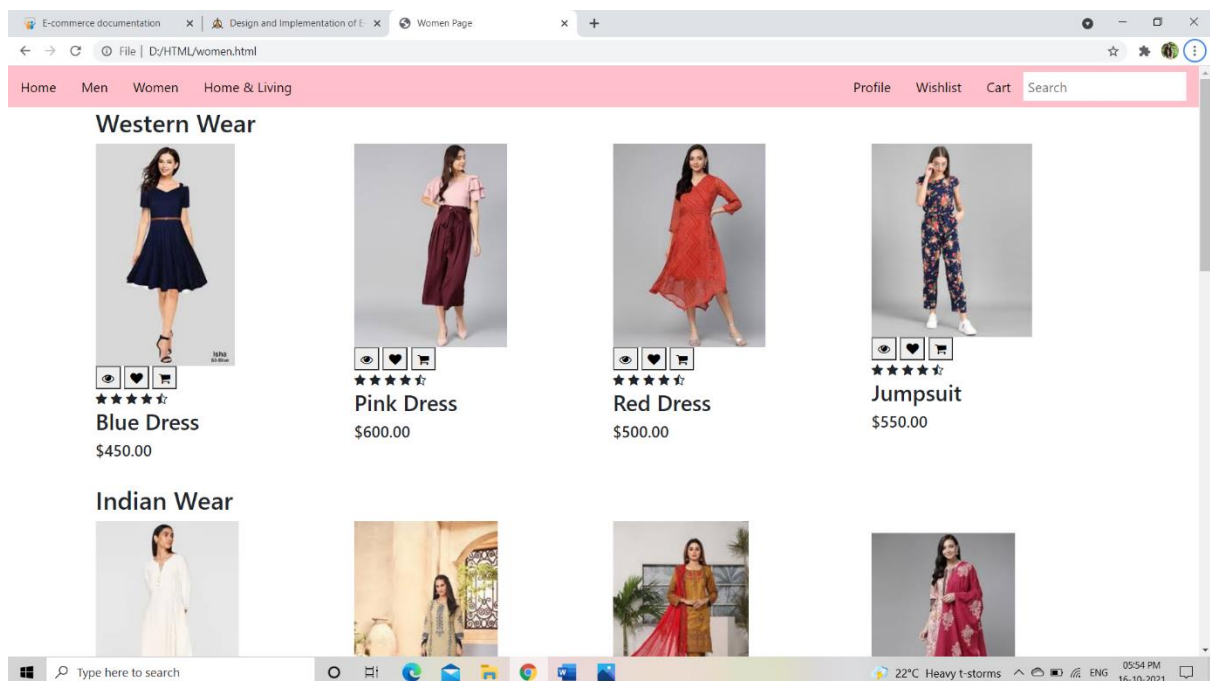
2) Home Page



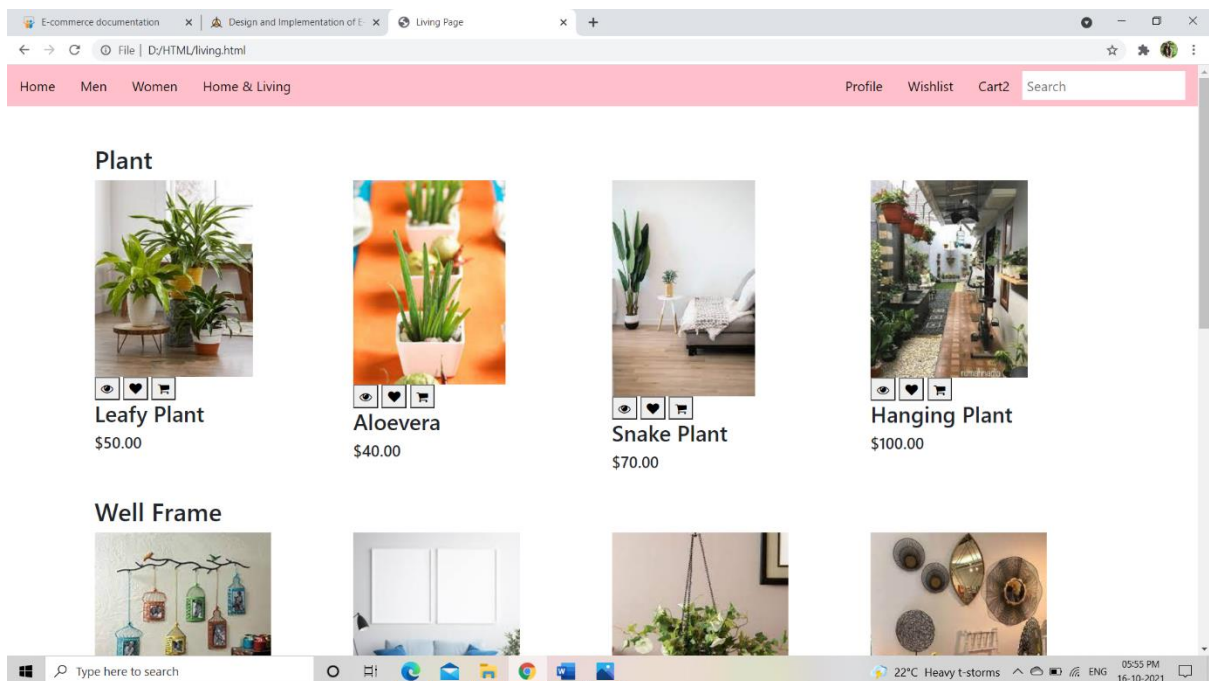
3) Men's Shopping Page



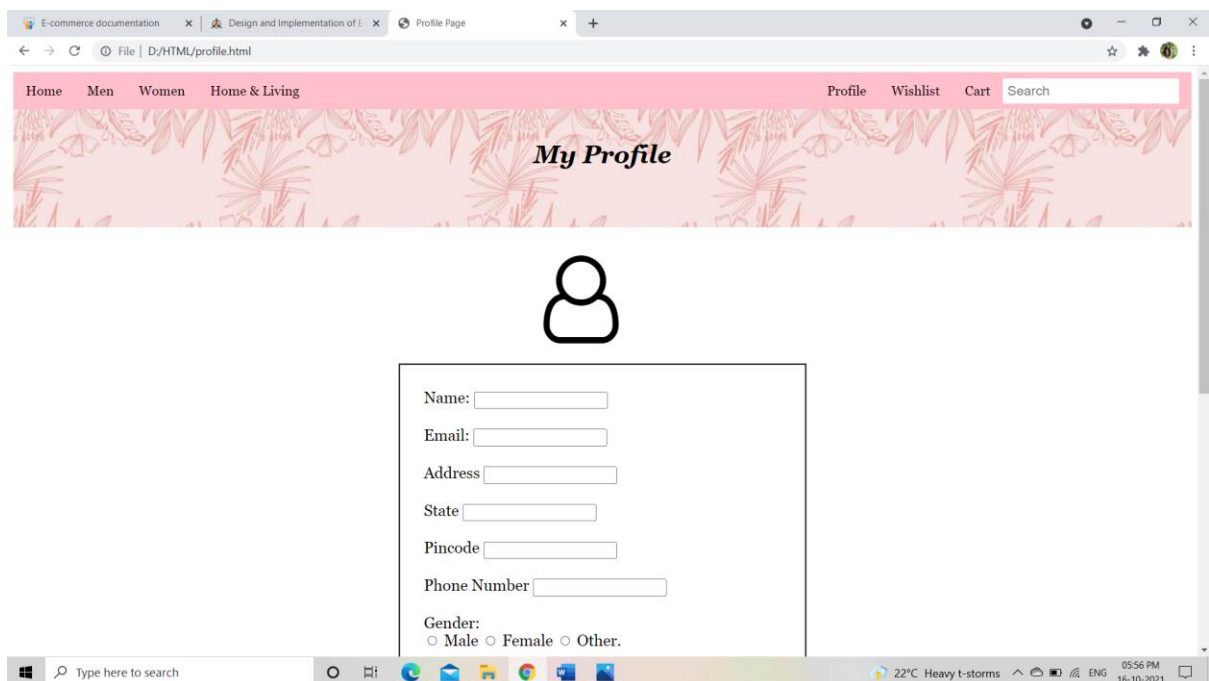
4) Women's Shopping Page



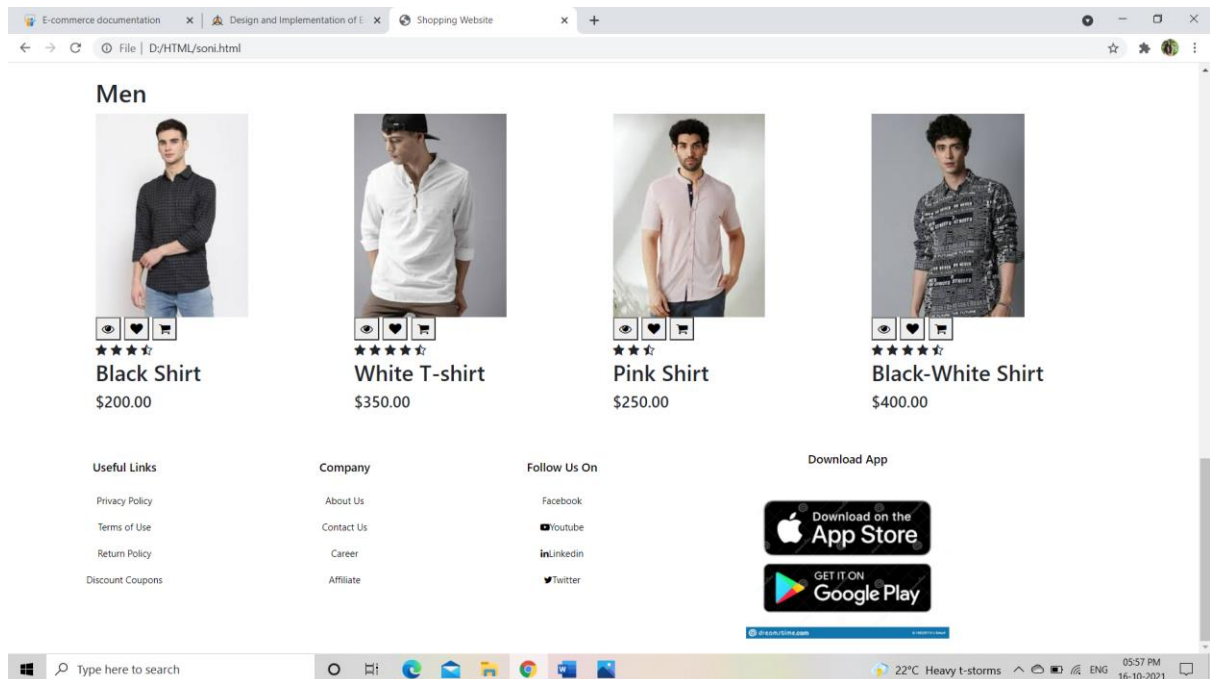
5) Home and Living Shopping Page



6) Profile Page





7)Footer





8) Billing Page

Billing Address

 Full Name

 Email

 Address



State

Zip

9) Payment Details

Payment

Accepted Cards



Name on Card

Credit card number

XXXX-XXXX-XXXX-XXXX

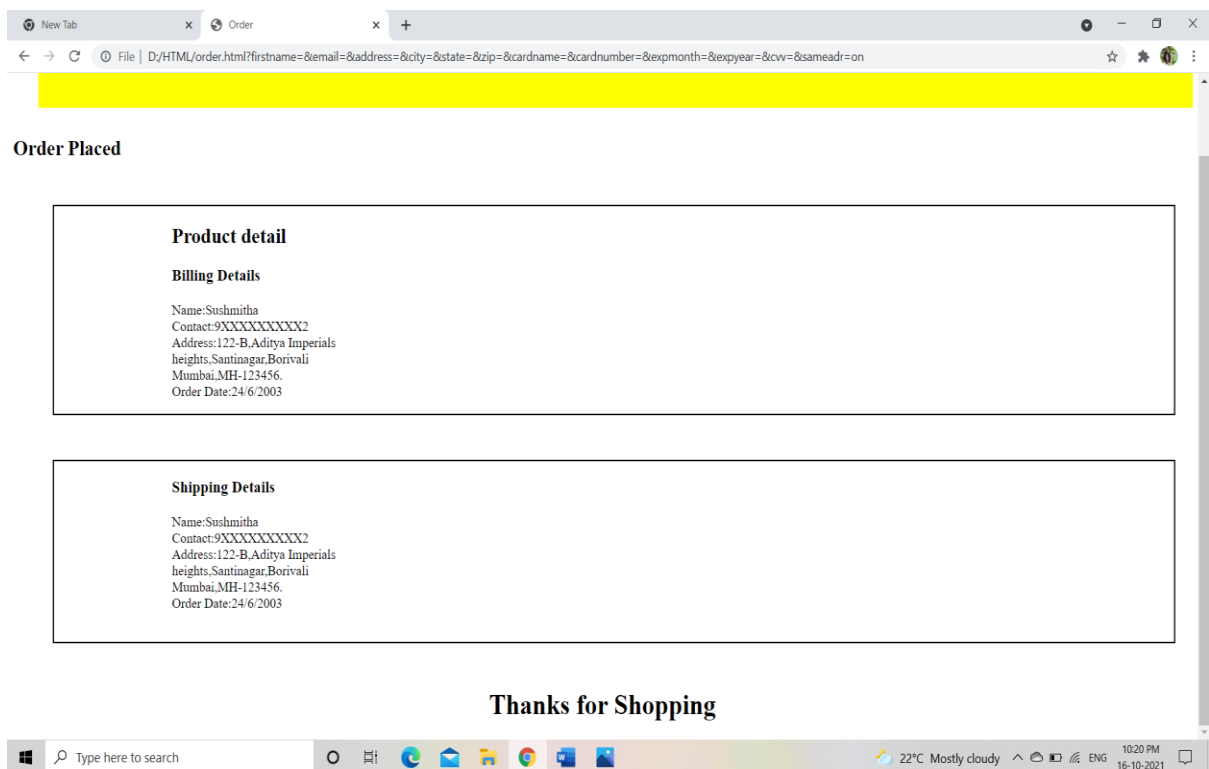
Exp Month

Exp Year

CW

☒ Shipping address same as billing[Place Order](#)

10) Order page



11) Cart Page

Cart Page

File | D:/HTML/cart.html

Home

Men

Women




Home & Living

Profile

Wishlist

Cart3

Search

Product	Price	Quantity	Total
<div><div><div><div><div></div><div>x</div></div><div></div></div></div><div>Hanging Plant</div></div>			
100	+ 1 -	\$100.00	
<div><div><div><div><div></div><div>x</div></div><div></div></div></div><div>Black Coffee Table</div></div>			
500	+ 1 -	\$500.00	
<div><div><div><div><div></div><div>x</div></div><div></div></div></div><div>Hanging Pot</div></div>			
80	+ 1 -	\$80.00	

Basket Total=\$680.00

7. Conclusion

The Internet has become a major resource in modern business, thus the electronic shopping has gained significance not only from the entrepreneur's but also from the customer's point of view. For the electronic shopping generates new business opportunities and for the customer, it makes comparative shopping possible.

As per a survey, most consumes of online stores are impulsive and usually make a decision to stay on a site within the first few seconds. "Website design is like a shop interior". If the shop looks poor or like hundreds of other shops the customer is most likely to skip to the other side.

Hence, we have designed the project to provide the user with easy navigation, retrieval of data and necessary feedback as much as possible. In this project, the user is provided with an e-commerce web site that can be used to buy all types of product online.

In this project the "add to cart" functionality made using Java script ,HTML and CSS without using any plugin and bKash payment system is not included properly in this project because to complete bKash payment system we require a particular payment gateway.

8. References and Bibliography

www.wikipedia.org

www.w3schools.com

Edu Bridge notes