Internship on Website application Design and development

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APPROVAL

This Venture titled "Design and Usage of E-commerce for Online shopping", submitted by Title ID No: 1, Title ID No: 2 to the Division of Computer Science and Building, Daffodil Worldwide College, has been acknowledged as palatable for the halfway fulfillment of the prerequisites for the degree of B.Sc. in Computer Science and Building and affirmed as to its fashion and substance.

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i.DECLARATION

We thusly announce that, this extend has been done by us beneath the supervision of Md. Mahfujur Rahman, Teacher, Division of CSE Daffodil International University.We too pronounce that not one or the other this venture nor any portion of this venture has been submitted somewhere else for grant of any degree or confirmation.

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ABSTRACT

Simple online shopping implies to purchase anything from online effectively without any bother conjointly online implies security nowadays. It diminish the time so that able to work difficult and purchase online our daily needs with security. There's no chance of lost any item conjointly in same conveyance fetched able to buy every item we require. Some of the time it is incapable to remember all the things we need but in online framework there's no chance of lost anything additionally no misfortune of any item. Presently online could be a way that able to keep up all our require from one place. E-COMMERCE location makes a difference individuals to preserve all the issues of related things, online ecommerce makes a difference individuals to spare profitable time, cash, carrying security conjointly spares from going exterior in this COVID situation. In our online framework, client can make an account or without any account they can utilize this framework. They will get free domestic conveyance framework and can purchase more things and more offices here. The proposed framework is "Online E-COMMERCE site". This framework is utilize

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PRESENTATION

1.1 Almost the Project

Ecommerce location is a web based web application for online commerce stage. In this widespread circumstance this location will offer assistance individuals spare time and hardest work will be less demanding with security. The main objective is to serve people with care in more easy ways and shifting with automated system. The cost is reduced and working procedure is minimized. People from any stage or any organization and everywhere the site can be used easily.

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User location is mandatory to place the order for any items. With 24/7 online system the order can be placed from anywhere in anytime. It is fully user friendly. Just need to order and check the items and then select payment system and method, get relaxed.

1.2 The Issue Statement

With the hardest time and busyness of life people want more friendly and frequent way of living. The solution is online system where people can check, order, pay and get delivery in time with safe way. Nothing need to worry about. Fully flexible where user have every access of user demand.Client can get to the site ordinarily, in the event that client needs at that point can make account or something else no ought to make an account, client can select the choice item, discover the items, add them into cart, select the quantity and after that enter the address and ought to hold up a small to require the requested things at clients entryway step.

1.3 The Reason

The fundamental reason of this ecommerce site is to decrease time and taken a toll, too security in this circumstance of life and client inviting request of clients. Customer can easily checkout items can take place for order items and the delivery is on time. With the automated system of this ecommerce site customer will have the best experience and satisfaction.

1.4 Scope

- User friendly and open for everyone
- 24/7 online system and can be used from everywhere
- Every ecommerce item is available based on needs
- The client fulfillment is the most objective

1.5 Benefits of the Extend

 i.   This   online framework will offer   assistance individuals to diminish physical work, fetched, time and keeping up exactness.
 ii. There could be a chance of developing more employments.
iii. From common individuals to businessman both will be benefitted with this framework.
 iv. User friendly system saves time and keep safety which is major demand now.
 v.   It will increase the interaction between customer and shopkeeper.
 vi. Online means easy way at door step, so no need to go outside to find anything.
vii. Fully online service with automated system.

1.6 Diagram the Extend

For better understanding the project, here a picture representation is showed because picture can describe more than words. The venture report comprise of 6 chapter.Diagram of this chapter with a brief summery is examined underneath through statistic representation:
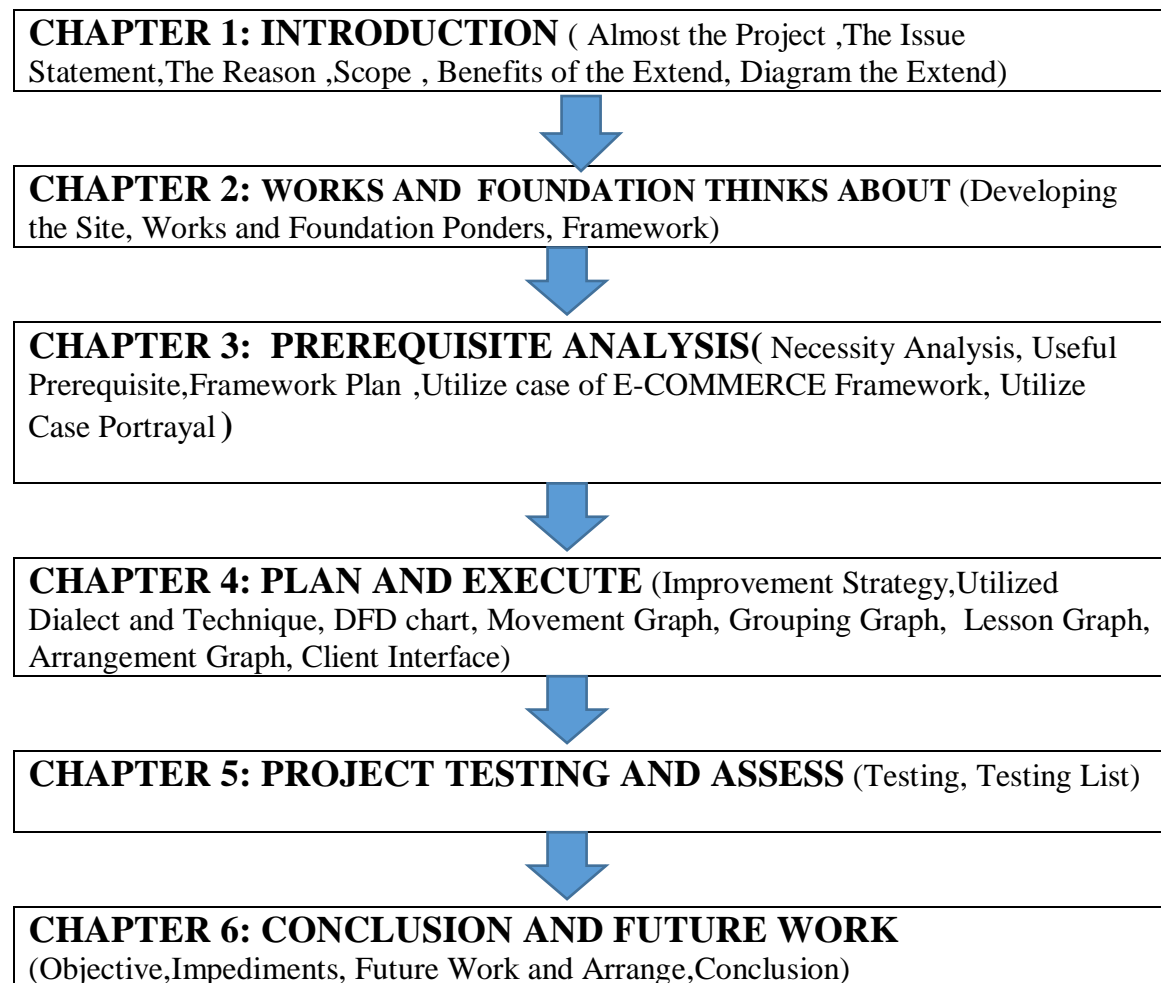
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CHAPTER 1: INTRODUCTION (Almost the Project ,The Issue Statement,The Reason ,Scope , Benefits of the Extend, Diagram the Extend)

CHAPTER 2: WORKS AND FOUNDATION THINKS ABOUT (Developing the Site, Works and Foundation Ponders, Framework)

CHAPTER 3: PREREQUISITE ANALYSIS(Necessity Analysis, Useful Prerequisite,Framework Plan ,Utilize case of E-COMMERCE Framework, Utilize Case Portrayal **)**

CHAPTER 4: PLAN AND EXECUTE (Improvement Strategy,Utilized Dialect and Technique, DFD chart, Movement Graph, Grouping Graph, Lesson Graph, Arrangement Graph, Client Interface)

CHAPTER 5: PROJECT TESTING AND ASSESS (Testing, Testing List)

CHAPTER 6: CONCLUSION AND FUTURE WORK (Objective,Impediments, Future Work and Arrange,Conclusion)

Figure 1.1: Diagram the project

CHAPTER 2

WORKS and Foundation Thinks about

2.1 Creating the Location

There are lot of online marketplace and website available but not running or working properly because of few lacking which is more important for the company and the customer affects its most. So we got an idea about our website that what are the lacking of other website are the main priority we keep maintaining to satisfy the customers and we have successfully done it. Now we have solve the problems of customers and sellers and now without any hustle both will be get in touch.

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2.2 Works and Foundation Ponders

2.2.1 Retailbd

Retailbd is a web e-commerce site they kept constrained stocks of things like observe, wallet, shades, sacks and belts. These things are accessible for men and ladies. Category can be chosen. They utilized tall quality picture by altering the crude picture but the quality things to the clients and influence it most.
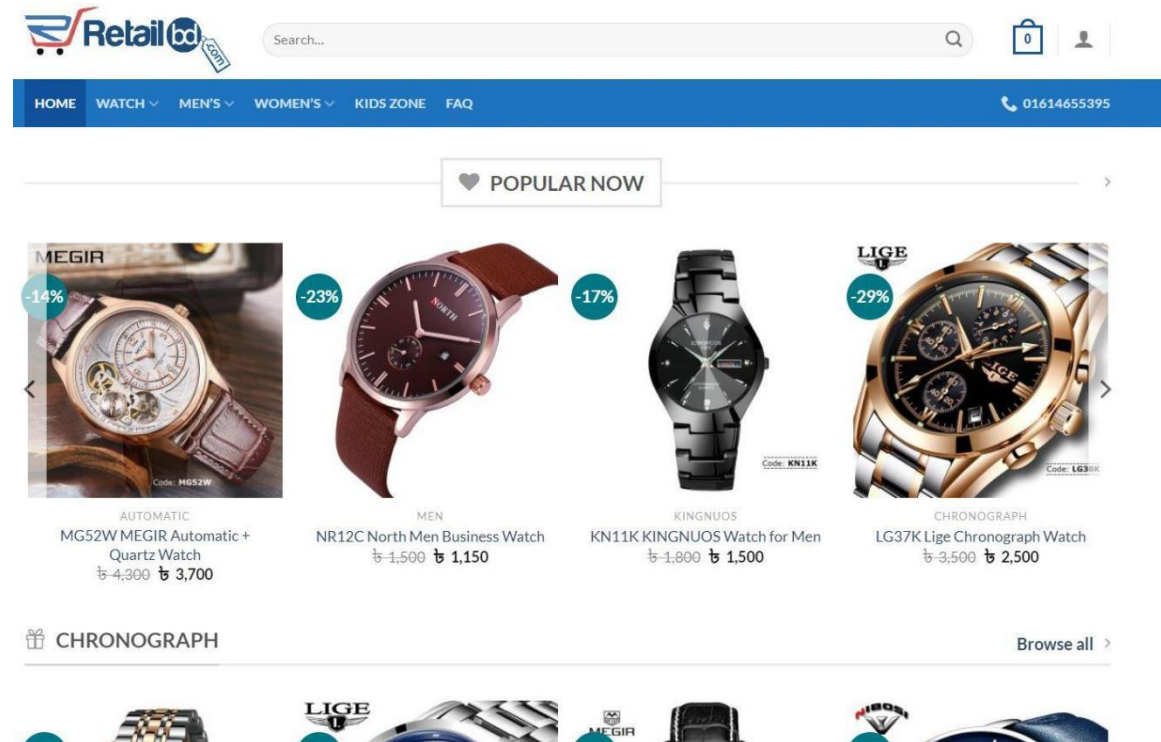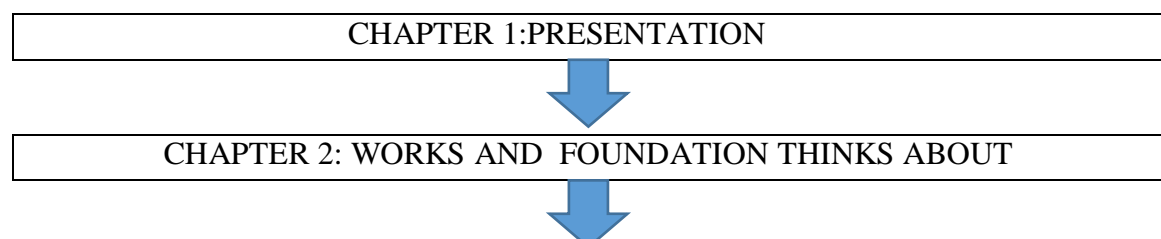

Figure 2.1:Domestic page of retailbd.com

2.3 System

A conceptual system may be a deliberate apparatus with several variations and settings. It is utilized to form hypothetical contrasts. Conceptual systems captures the genuine protest to keep in mind and apply it effectively. The conceptual systems in this think about is characterized as the body of thoughts that are seen to be more in clarifying organize of online exam framework. The consider is displayed as takes after:
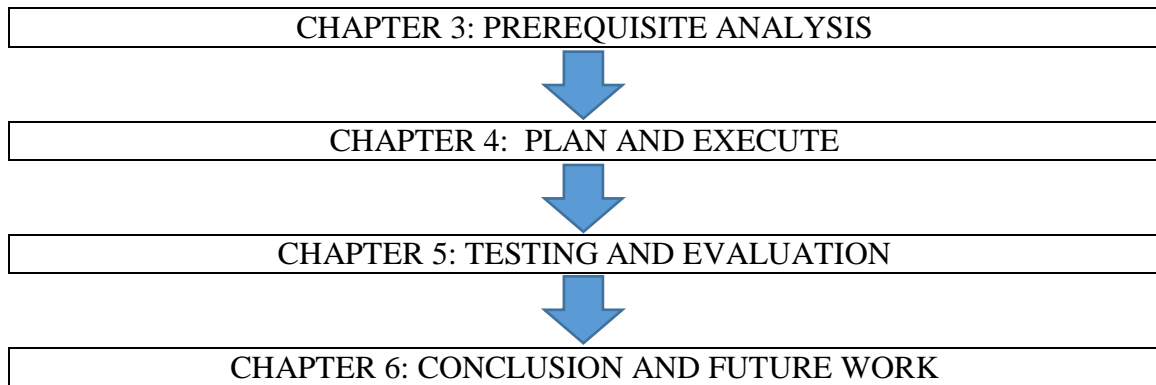
CHAPTER 1:PRESENTATION

CHAPTER 2: WORKS AND FOUNDATION THINKS ABOUT

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CHAPTER 3: PREREQUISITE ANALYSIS

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CHAPTER 4: PLAN AND EXECUTE

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CHAPTER 5: TESTING AND EVALUATION

$\downarrow$

CHAPTER 6: CONCLUSION AND FUTURE WORK

Figure 2.2: Conceptual System of the Study

CHAPTER 3

PREREQUISITE ANALYSIS

3.1 Necessity Analysis

The most important part is requirement analysis for any project before going. After requirement analysis part is done then most important is documentation, testing and check if it is computable or not.It too can be building, basic, utilitarian, non - useful. The improvement projects need to run better and that's why needs testing and checking. The minimum requirement for both hardware and software should determine by the project maker.

Necessity investigation has two stages:
 ii.Essential Investigate: Collect all prerequisite from distinctive sources and overview.
 iii.Auxiliary Investigate: It'll compare the necessity of other existing program

3.2 Useful Prerequisite

● Enrollment page with login alternative
● Cart Framework to include things chosen by client
● Programmed chosen thing list with cost
● Authorize the client
● Security for both side clients

3.3 Framework Plan

Framework plan could be a handle to decide the design, modules to fulfill the prerequisite.
It makes a difference to client chose equipment and computer program for a particular extend.

3.4 Utilize case of E-COMMERCE Framework

E-COMMERCE WEBSITE

Figure 3.1: Utilize Case Graph of E-Commerce Site

3.5 Utilize Case Portrayal

Framework plan could be a handle to decide the design, modules to fulfill the requirement. It makes a difference to client chose equipment and computer program for a particular extend. List of use cases are:

- Registration
- Login
- Select Category
- Add to Cart
- List the Items
- Order Item
- last cost with Quantity
- Authorization
- Security
- Feedback

Registration Utilize Case

Use Case Name	Registration
Primary Actor	Everyone
Description	Enrollment the Framework

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Precondition	Client fill up all required field
Post condition	Client are Registered

Login Utilize Case

Use Case Name	Login
Primary Actor	Registered users
Description	Login into the Framework
Precondition	All authorized has the client title and secret word and confirmed by the framework
Post condition	framework expand the client

Select Category Utilize Case

Use Case Name	Item Selection
Primary Actor	General Users
Description	Select thing from menu
Precondition	All clients, enrolled or unregistered can select any thing for arrange items
Post condition	Framework appear the choices, menu category

List the Thing Utilize Case

Use Case Name	List the thing
Primary Actor	Chosen thing will be recorded
Description	List thing with amount and price
Precondition	Any client can include items
Post condition	System will make a database for client

Authorization Utilize Case

Use Case Name	Authorization
Essential On-screen character	System Admin
Depiction	System will check clients address, mail, phone number etc is considerable or not
Precondition	Client must enter address, e-mail and phone number
Post condition	Framework will consequently put the arrange

CHAPTER 4

PLAN AND EXECUTE

4.1 Improvement Strategy

advancement strategy may be a teach of arranging, inspiration, controlling to attain the objective. A venture needs a brief endeavor with starting and closes the meet with all needs and get the particular objective. The spry strategy is utilized to create this location fully. There are a few stages for our extend improvement. These are given howl:
- ✔ Start
- ✔ Arranging and Plan
- ✔ Execution and Advancement
- ✔ Observing and Controlling framework

4.2 Utilized Dialect and Procedure

Tools that have been used in developing our application are listed below:
- **Software Tools**
  1. Local Server
     ➢ XAMPP (version 3.33)
  2. Database Server
     ➢ MySQL
  3. Code Editor
     ➢ Sublime Text

- Languages
  - Laravel as Backend Framework
  - HTML5
  - CSS3
  - jQuery
  - Bootstrap as Front-end Framework

4.3 DFD Chart
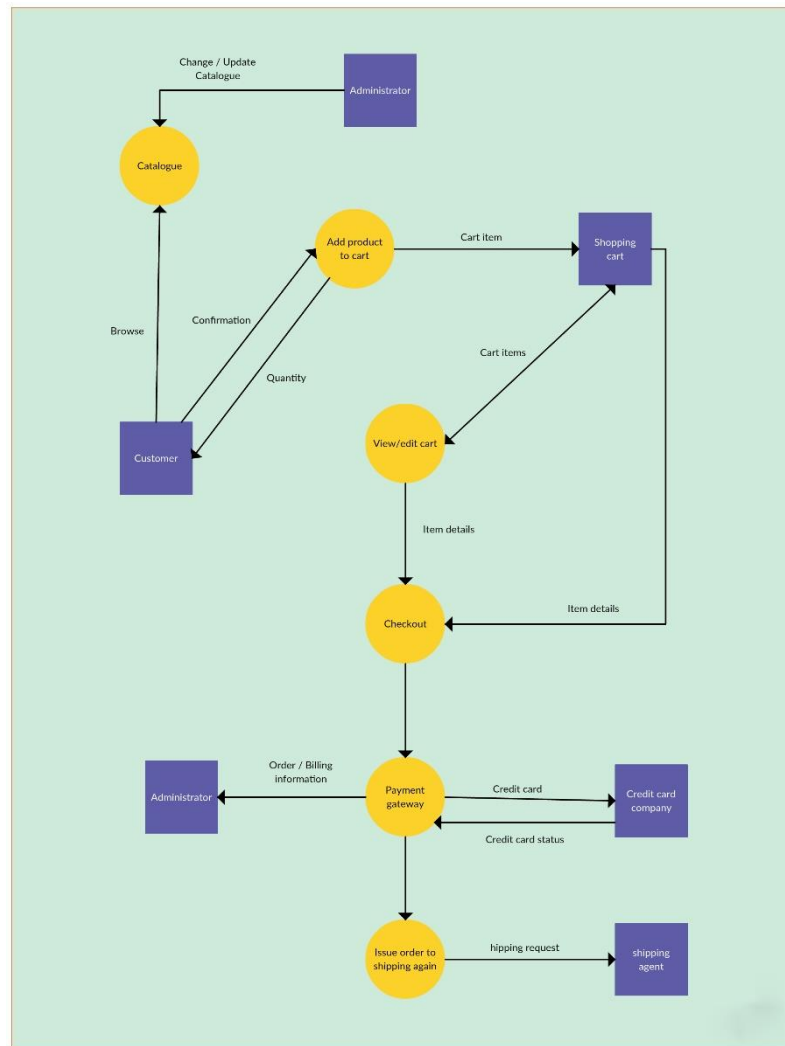
Figure 4.1: DFD Graph of E-Commerce

4.4 Movement Graph
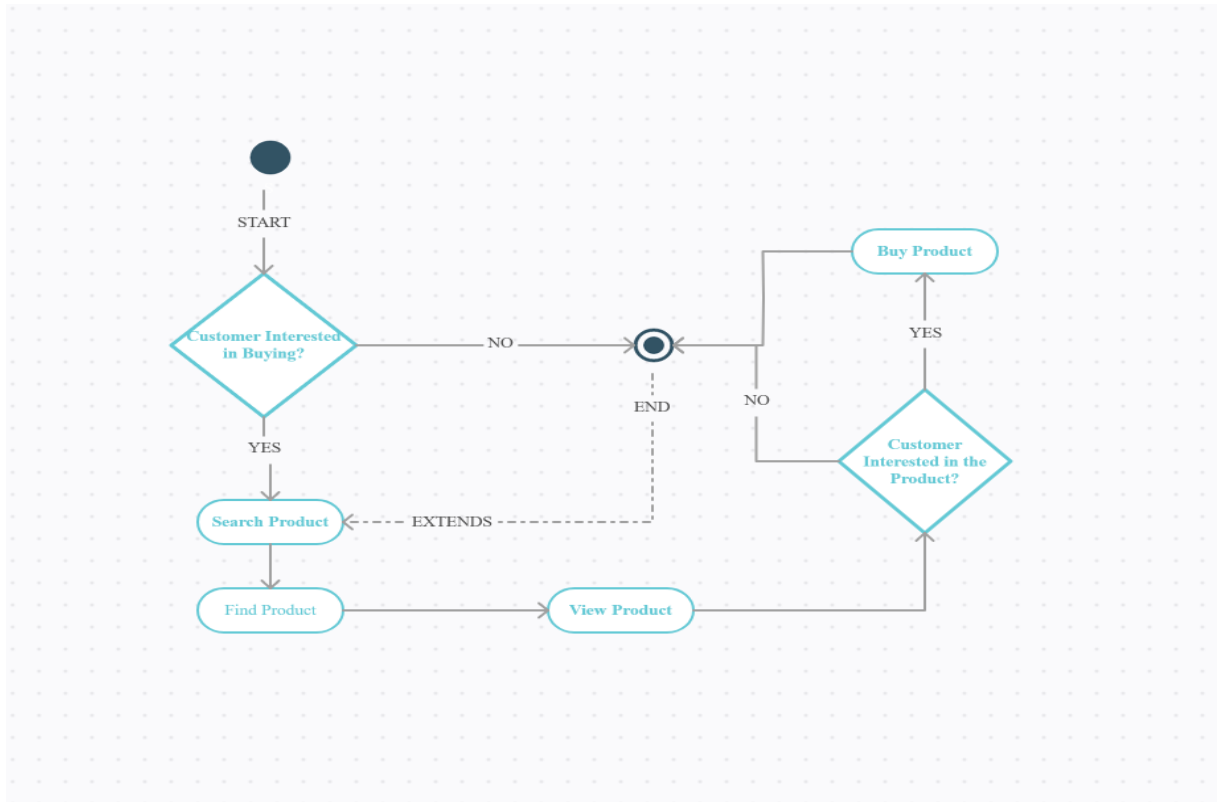
Figure 4.2: Movement Graph of E-Commerce Website
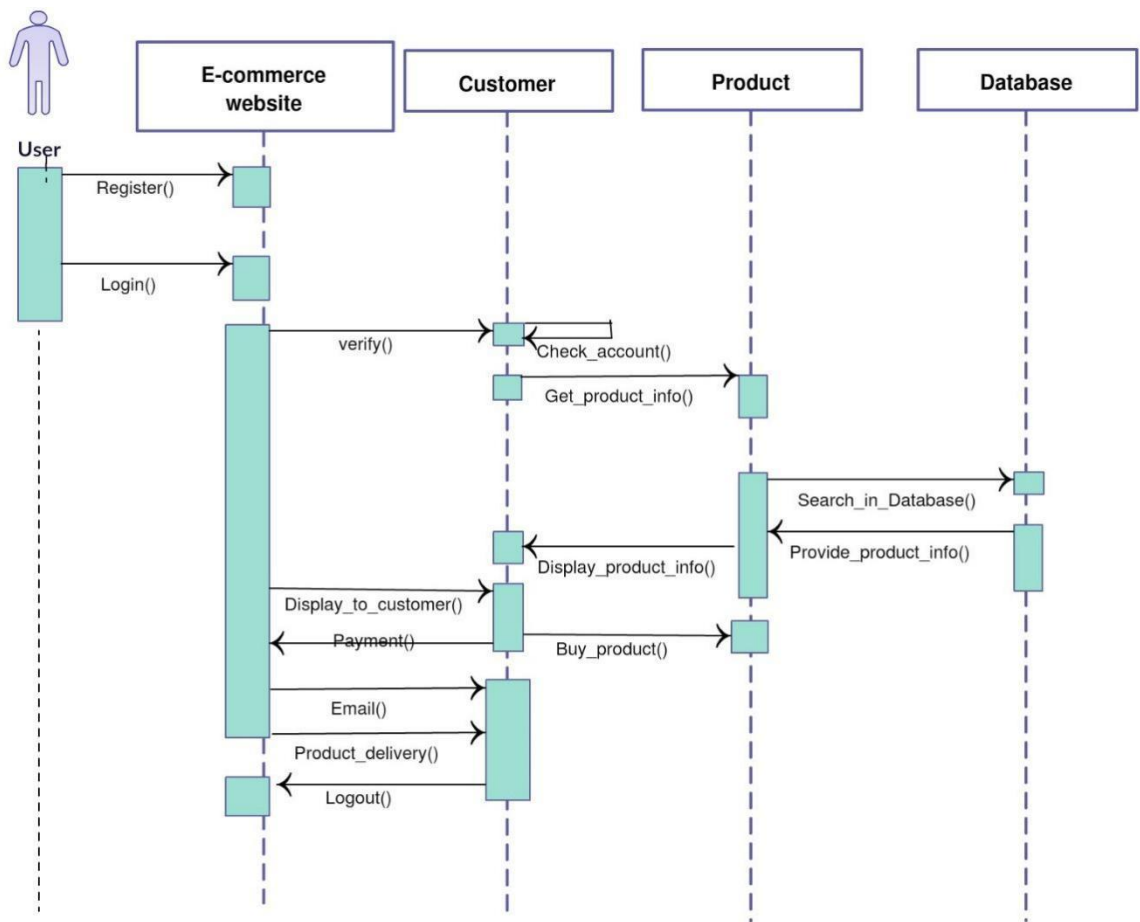
4.5 Grouping Graph

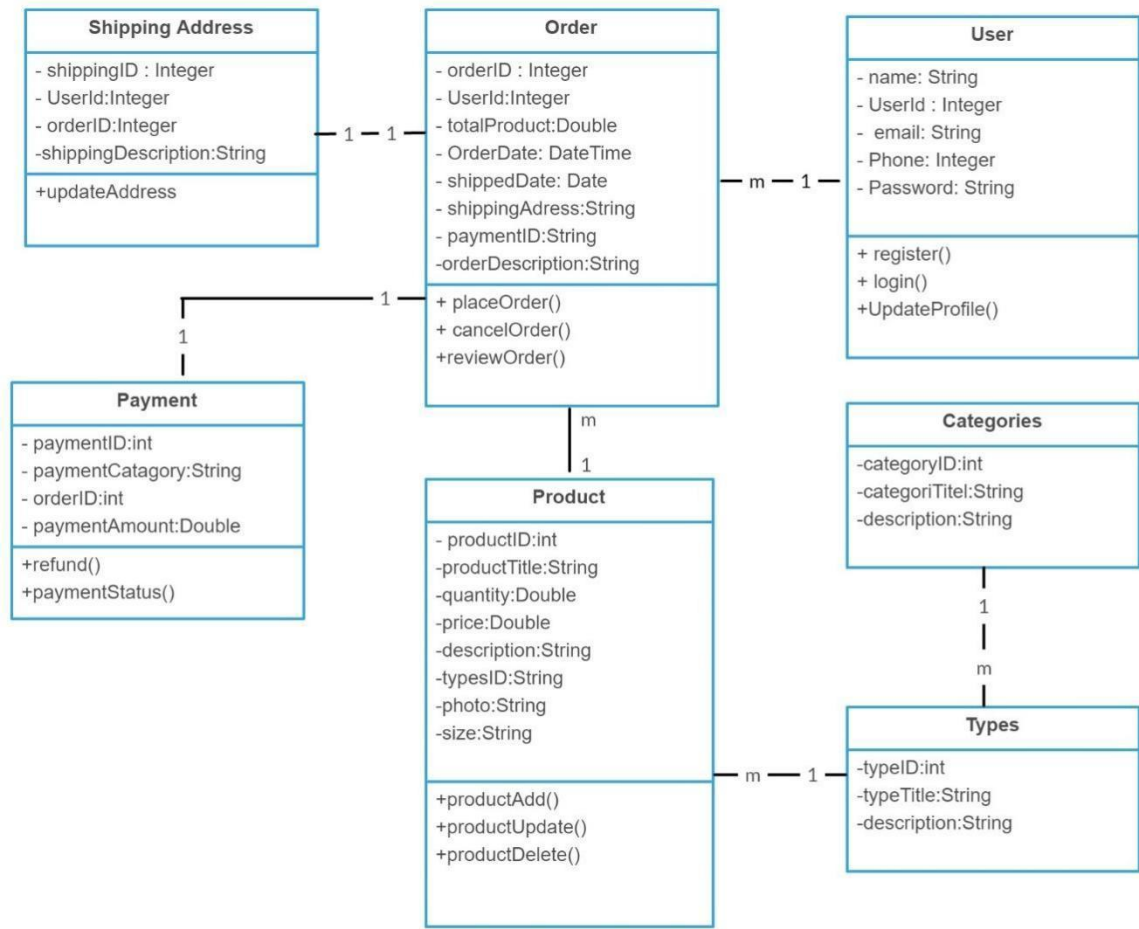Figure 4.3: Grouping Chart of E-Commerce Website

4.6 Lesson Graph

Figure 4.4: Course Chart of E-Commerce Website
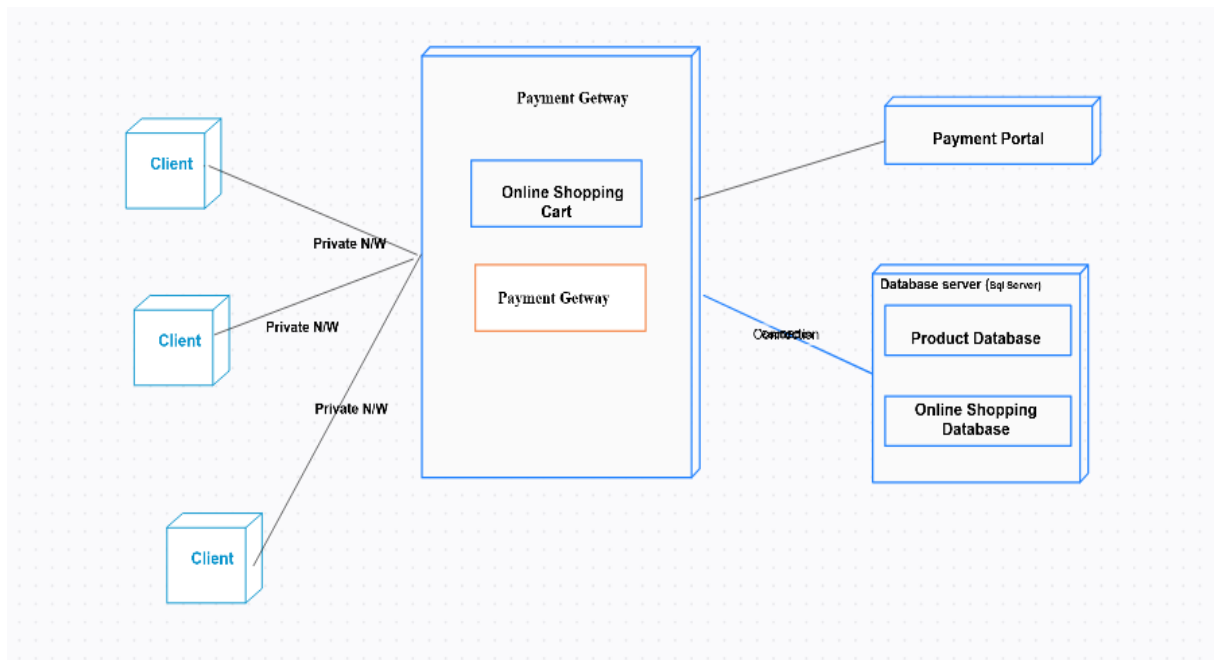
4.7 Arrangement Graph

Figure 4.5: Deployment Chart of E-Commerce Website
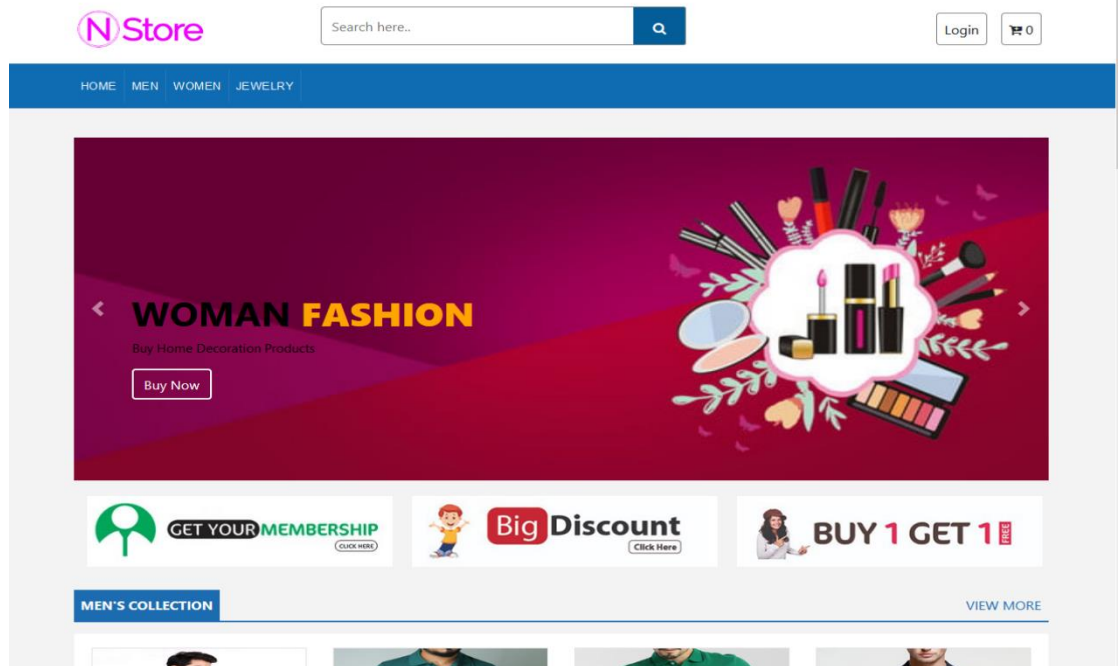
4.8 Client Interface
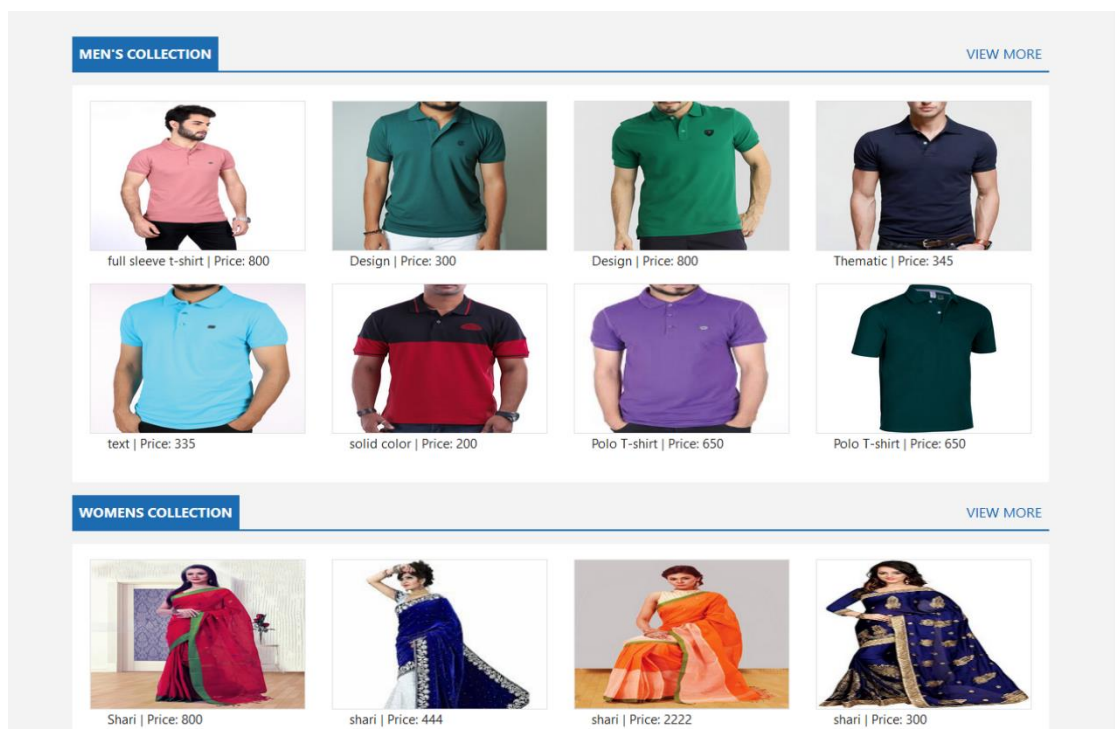- **Home page**

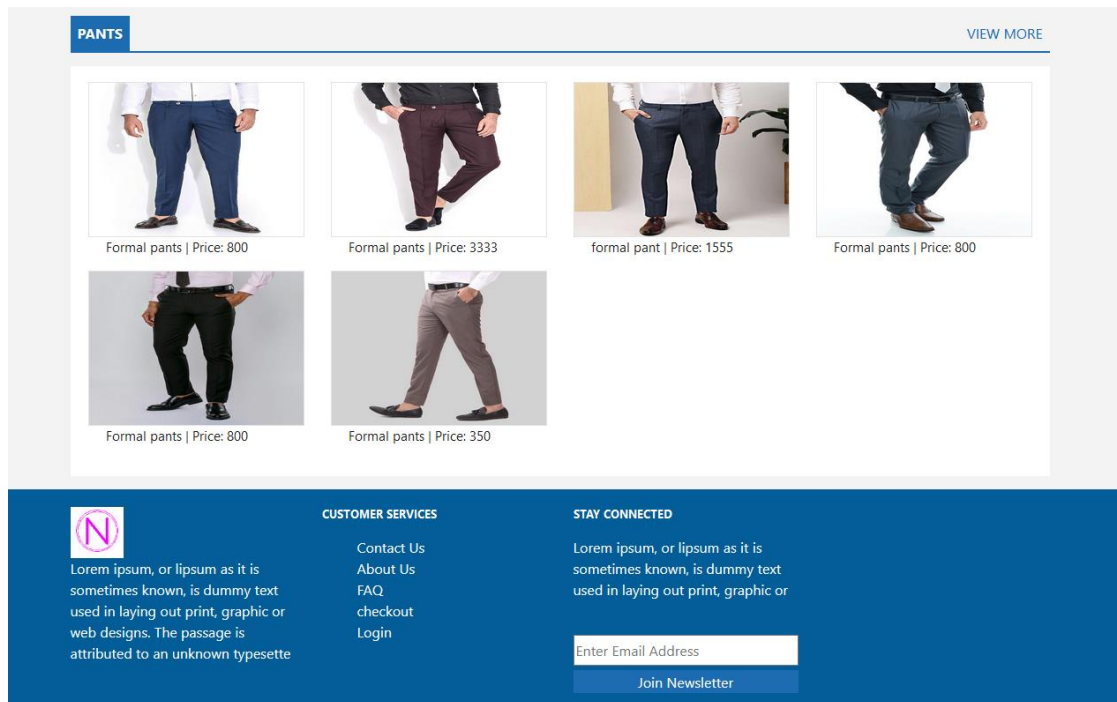Figure 4.6: image of Domestic page

Figure 4.7: image of Domestic page

Figure 4.8:image of Domestic page

Output: A home page is the most important part for any website and we have done it as user friendly. For further access a user need to register but before login, user can view and add to cart any item for purchase. Registered user will not lose any selection and cart items. This site is design as much friendly that user can use and buy as like unregistered user if they don't want to register in the system.

- **Registration page**

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Figure 4.10: image of Enrollment page

Output: The enrollment page   is   so straightforward to get   it.   The client ought to donate substantial data to make an account in future utilize of this site which is able be checked in to framework. There is an email verification system implemented. The needed email address and phone number must be valid for user registration into the system.

● **User Login page**

Figure 4.11: image of login page

Output: After substantial enrolled e-mail and watchword, client will   be redirected to the following page. Enlisted client can get each data done by the client into the framework or site. Suppose, 5 items added into the cart by user for next order. The cart item will be dismiss if user is not registered or not logged in. So a registered user can even know the cart items which will not dismiss. User can even reset the password by clicking on "<u>Forgot Your Password</u>".
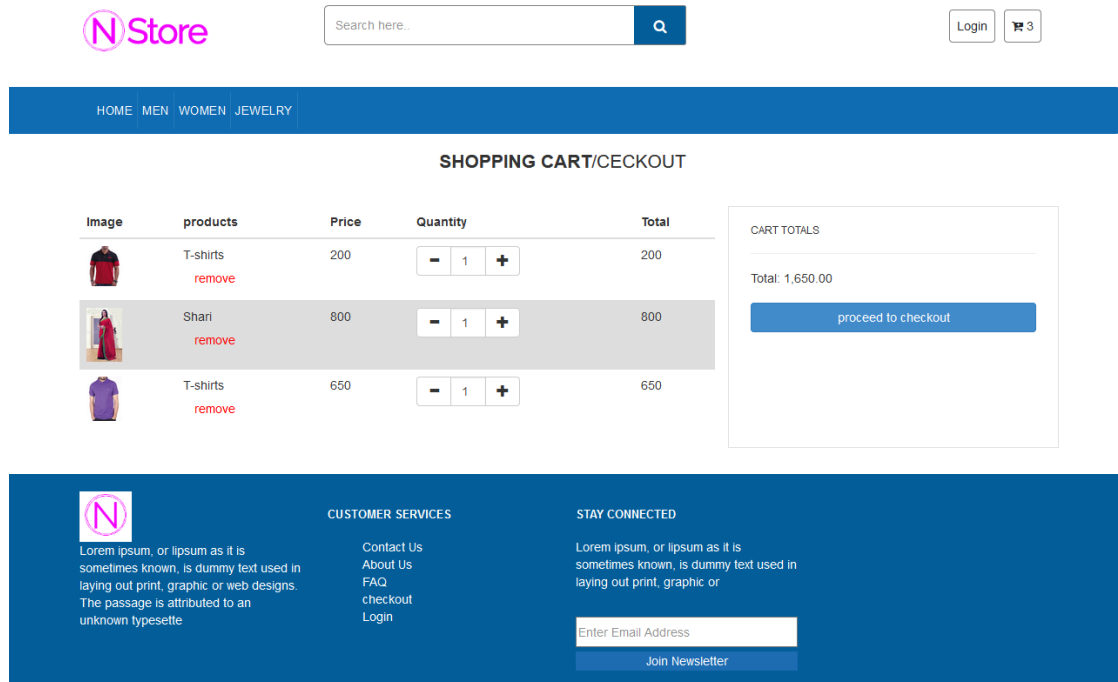
●**Cart thing page**

Figure 4.12: image of Cart thing list

Output: Within the view cart thing page, there's a list of things that client included into the cart, client can know the points of interest with item title, picture, cost, amount and add up to cost. The things from the cart can be changed or client can erase or can alter amount too. Clicking on Continue to arrange will permit the client to put the arrange into the framework.
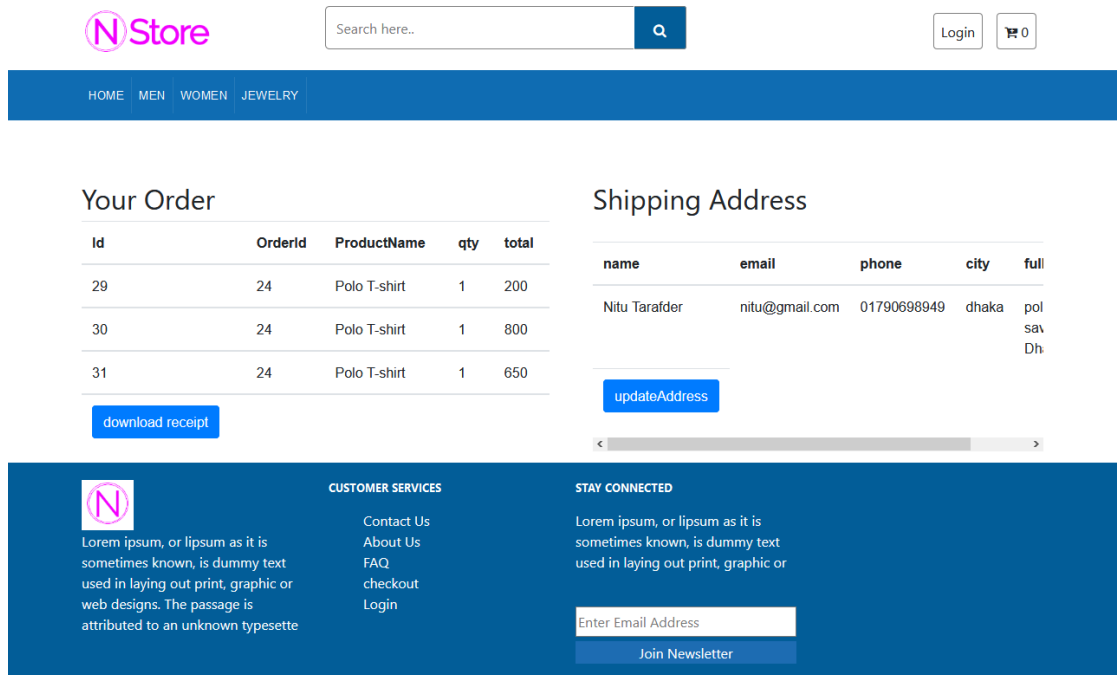
●**Order Data page**

Figure 4.13: Image of Arrange data and shipping address

Output: Typically the arrange data page and clients can   check   what   they   had requested, with arrange id, item title, amount, add up to cost and address of shipment.User have access to change the address as they can see if they have provided valid address or not.

● **Overhaul Delivery Address**

Figure 4.14: Image of Overhaul Delivery Address

Output: Usually the checkout option from where a user can check that the items and address provided is fully ok. If any changes needed then user have access to change information or address from this page. Client is permitted to yield title, e-mail, phone no, city and full portrayal of address.

CHAPTER 5

TESTING AND EVALUATION

5.1 Testing

Before going live the main and first task is testing so that we can check whether if there is any bugs are left which hamper the whole work. After findings bugs and using some simple methods we have fixed all the bugs and problems.

5.2 Testing List

1. Checking functionality
2. Ease of use Testing
3. Checking of Interfaces
4. Checking the Archive
5. Checking for Compatibility
6. Checking for Results
7. Checking protection

5.2.1 Checking Usability

To ensure all the functionality are functioning precisely like entering the net sites, customize checking of the cookie and connect it to the database.
Test Shapes are as likely to work. That will require-
✔ If the client does not fill in the mandatory sector, the error rub will appear at that point.
✔Populated minor offender value are being tested.
✔It'll check within the event that a client submitted its information into database. Test Treats are working as expected. It may be a little record that keeps data from energetic client so merely don't have to be login once more and once more .
✔At that time cache is erased treats are moreover erased

Check HTML and CSS
    ✔ Check syntax error
    ✔ Readable Color Schema
    ✔ Check standard compliance such as W3C, OASIS.

5.2.2 Ease of use Testing

This testing checks the route bar, menu and on the off chance that any syntactic mistake of the internet pages is accessible. Moreover guarantee that the location is client inviting.

Route testing: Joins, button, menu ought to be work appropriately totally diverse pages and dependable on all web pages.
Substance Testing:
✔This portion is to check any linguistic botches to spelling.
 ✔Also in the event that any pictures is lost at that point it appears the elective content.

5.2.3 Checking of Interfaces

Interface testing check the right interaction between client input values and database server. This methodology confirm that don't show up any botch messages. There are three sorts of interface checking:
✔Application: On the off chance that the inquire are sent fittingly to the database server at that point client get authentic result. We do not get suitable result, within the event that we sent off-base data.
 ✔Web Server: Oversee all application demands brief of any advantage dismissal.
 ✔Database server: Request inquire to the database and after that show up rectify result.
5.2.4 Checking the Archive

Database testing is one intense component of web application.
✔This test will keep up information astuteness whereas CURD operation in database.
 ✔Check we get a appropriate result whereas executing queries.
✔Database testing check the reaction time of query.
 ✔Data perused from database and appear exactness in our application.

5.2.5 Checking for Compatibility

The compatibility testing checks that the website is responsive in all device and browsers. That is include-

Browser Compatibility Test:
With a responsive website we have checked that our website will work and show properly in different browsers accurately. Also checked and fixed that this site will be responsive in different devices.Check all the work that are work legitimately in several browsers like google chrome, Mozilla Firefox, musical drama etc. Conjointly check the versatile browser.

5.2.6 Checking for Results

Execution testing incorporates web stack testing   and   web stretch testing.
Web stack testing procedure checks in case numerous clients can get to The same website at the

same time, and if a web page can do it overwhelming stack on any particular page. Web stretch checking is performed at the location to see how the position reacts and recovers in the middle of the push cycle.

✓Application reaction time depends on web speeds.
 ✓Diminish stack time for server side cache enable.
✓Test in case a crash happens due to crest stack, how will the location recuperates from such an event.
✓In case our application crash due to greatest stack at that point how will the location recuperate from such an occasion.

5.2.7 Checking protection

✓The most portion is security and its checks the security of the framework. Without login we cannot get to inside pages. A few information not available for conclusion client. Will's security checks incorporate-Without login client cannot get to secure pages.
✓Without suitable get to a few reports ought to It should not be downloadable.
✓Sessions are naturally erased when client long time inert.

CHAPTER 6

CONCLUSION AND FUTURE WORK

6.1 Intention

As portrayed some time recently, the most objective of our purpose of this venture may be a great interaction between both the buyer and vender. Simple showcasing framework with safety of human being and spare the time. We are attempting to do this extend Best at level to best at level fulfill all the clients and still discoveries the issues so that ready to make more client inviting environment. It is very certain that on the off chance that ready to speak to and bring it out with a legitimate way the plan and improvement of E-Commerce location can supplant the full regular framework inside A couple of months.

6.2 Impediments

i.Universal or long separate item arrange It will take a long time to.
 ii.Upon setting an agreement, the customer can not weed out the order.
iii.Without registration, a customer does not have objects in the cart to arrange assistance..

6.3 Future Work and Arrange

●Step forward Protection to find real consumers.
 ●Get feedback from consumers to locate real sellers of exclusive products.

6.4 Conclusion

With the need of family and time in this circumstance and presently a days, we are going ensure merely will have everything you wish and give each needs of you in your entryway step. With this exceptionally simple framework, have to be visit online, put the arrange and address. The imperative time will be spared with the fetched successful quality products. Also with this one site, it may make more business, decrease physical work. Presently in the event that you disregard anything at that point it is simple to shop once more with any product and spare time and money.

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