
MyArea- An E-commerce Platform For Online Shopping With Users' Choice Grocery Shop

Senior Design Project

By

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LETTER OF TRANSMITTAL

January, 2021

To

Dr. Mohammad Rezaul Bari
Associate Professor and Chairman,
Department of Electrical and Computer Engineering,
North South University,
Bashundhara R/A, Dhaka

Subject: Submission of Capstone Project Report on "MyArea - An E-Commerce Plat-form For Online Shopping With Users' Choice Grocery Shop".

Dear Sir,

With due respect, we would like to submit Our Capstone Project Report on "MyArea - An E-Commerce Plat-form For Online Shopping With Users' Choice Grocery Shop" as a part of our BSc program. The report deals with An E-Commerce Platform, Where User Can Find Their Local Areas Shop and buy their necessary products. They also can use the platform to sell products, if they own a shop. We tried our level best to make the report meaningful and informative.The Capstone project was very much valuable to us as it helped us to gain experience from practical field. It was a great learning experience for us. We tried to the maximum competence to meet all the dimensions required from this report.We will be highly obliged if you are kind enough to receive this report and provide your valuable judgment. It would be our immense pleasure if you find this report useful and informative to have an apparent perspective on the issue.

Sincerely Yours,

Assadujjaman Nayeem, MD. Abiduzzaman Khan, and Sumon Ahmad
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APPROVAL

The capstone project entitled "**MyArea - An E-Commerce Plat-form For Online Shopping With Users' Choice Grocery Shop".**" by Assadujjaman Nay-eem (ID#1620538042), MD. Abiduzzaman Khan (ID# 1620652042) and Sumon Ahmad(ID# 1310173042), is approved in partial fulfillment of the requirement of the Degree of Bachelor of Science in Computer Science and Engineering on September, 2020 and has been accepted as satisfactory..

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AUTHOR'S DECLARATION

This is our truthful declaration that the "**Capstone Project Report**" we have prepared is not a copy of any "**Capstone Project Report**" previously made by any other team. We also express our honest confirmation in support of the fact that the said "**Capstone Project Report**" has neither been used before to fulfill any other course related purpose nor it will be submitted to any other team or authority in future.

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First of all, we wish to express our gratitude to the Almighty for giving us the strength to perform our responsibilities and complete the report.

The capstone project program is very helpful to bridge the gap between the theoretical knowledge and real life experience as part of Bachelor of Science (BSc) program. This report has been designed to have a practical experience through the theoretical understanding. Furthermore, **North South University** gave us plenty of privileges regarding technical facilities. So, we also like to admire the cooperation of our authority.

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We would like to convey our gratitude to our faculty **Dr. Tanzilur Rahman** for his stimulating inspiration, kind guidance, valuable suggestions, sagacious advice and kind cooperation throughout the period of work undertaken, which has been instrumental in the success of our project. At this level of understanding it is often difficult to understand the wide spectrum of knowledge without proper guidance and advice. His suggestions and guidance have made the report a good manner.

We like to express our heartiest gratitude to our family and friends for their moral support to carve out this project.

ABSTRACT

E-commerce, or electronic commerce, refers to transactions conducted via the internet. In today's world, people are very comfortable with this platform. In this motivation, we wanted to build an E-commerce platform, which will have a very good interface for users'. The thesis aimed to develop an online shopping website and we have developed this website using some open source technologies (HTML, CSS, PHP, JAVASCRIPT, MYSQL, BOOTSTRAP, APACHE WEB SERVER). The designed application will have an admin view with two kinds of guest views with sellers (vendors) and buyers. Guest, who are willing to buy products they will find different shop of their territory on this website. At first Guest, location will be tracked. By tracking down the location, we will provide shops within a certain territory of the current guest. Guests will choose the shop as they want. They will visit that shop and then they will search for the desired product and finally they will add to cart the product. The Guest (vendor) view is meant for the sellers, who will open accounts in this platform to sell his product. The admin view is meant for the administrator to update the price, products, manage the vendors, manage the customers and they will be able to contact users. Also, there will be a different kind of function that will be available for the administrator.

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INTRODUCTION

E-commerce is an online marketplace where the transactions are conducted via the internet. Each time peoples are buying or selling products and services online they are also engaging in e-commerce. In our everyday life, we use the internet which makes our life easier. For making our life easier we want to perform our task via the internet. Shopping is one of them, which is more popular nowadays. As technology grows to be a bigger part of today's society, the amount of people benefiting from e-commerce is increasing. There has been a lot of online retailers over the years and it indicates that society also accepts the service of e-commerce.

There are various types of E-Commerce website and ways of providing service and the product are different from each other. Our E-Commerce website idea is a bit different from another E-Commerce website. Every E-Commerce website provide the products from their ware-house and some of them are providing product from the other ware-house but, they also provide the products from their ware-house. We are providing a new option that, users will find the local shop within their territory and they will choose a shop and will complete their shopping.

In today's world, people are noticing new technologies which will make their life easier. E-commerce platforms are providing such kind of process that makes an easier life for people. And there are lots of E-commerce platforms are trying to provide new ideas with new features to make the process easier than before[13].

1.1 Engineering Problem

In this study, we are tried to build an E-commerce website by using some modern programming language. In this platform, we wanted to solve a problem for the local grocery shopkeeper by using our engineering knowledge. Nowadays we have seen lots of E-commerce websites, who are providing grocery goods. And these websites are getting popular. If this kind of scenario happens, then our local grocery shopkeeper will be starting to count their losses. We will give a platform to them and they will use that platform to get the benefit.

1.2 Motivation

We, human beings are living in a society, and in society, everyone is connected to each other. In society we all have friends and we are comfortable doing business with them. In Bangladesh, it is not different from others. People love to buy the products from their friend shops if they have any friends who owned a shop. By using this natural behavior we wanted to build a platform, where people will find their desirable shop. And they will visit that shop website and buy their desirable product. We are providing the shop based on the location. Like people living in a society and they are connected with the shop owner if they have that kind of situation, we can assume that the people will love to buy the product from a certain shop they are connected to.

1.3 Why Do People Prefer E-Commerce?

E-commerce is the action of electronically buying or selling products on online services and by using the Internet. E-commerce describes technologies such as mobile commerce, electronic funds transfer, supply chain management, Internet marketing, online transaction processing, electronic data interchange, inventory management systems, and automated data collection systems[15].

1.3.1 Global Market

A physical store will always be limited by a geographical area it can distribute. On the other hand, an online store or any other type of E-Commerce business has the whole world as its market for distribution. If we think of a local customer base in a global

market and no additional cost then this is one of the greatest advantages of trading online[12].

1.3.2 Around the Clock availability

Another massive benefit of running an online business is that it is always open. For a dealer, it's an amazing increase in sales opportunities and for a customer, it's a suitable and instantly available option. And if we think about the working hours, E-Commerce can serve customers all the time (24/7)[12].

1.3.3 Save Time and Money

E-Commerce business mostly benefits from significantly lower running costs. Because in this business there is no need to hire sales staff or sustain a physical storefront and the major E-Commerce expense goes to product storing and warehousing. And those running a dropshipping business taste even lower upfront investment necessity. As dealers and traders can save on operational costs so they can offer better deals and discounts to their customers.

1.3.4 Working from Home

Mostly in an E-Commerce business, it doesn't need to sit in an office from 9 to 5 or undergo a swap day-in and day-out. A personal computer and a good internet connection is all it takes to operate this e-commerce business from anywhere in the world

1.4 Thesis Outline

The entire senior design project is described within six chapters. Each section covered about a certain task of the project which is summarized below,

- (I) Chapter one gives an introduction of E-commerce website, the engineering problem, and our main objective, finally our motivation behind doing this project.
- (II) Chapter two covers an extensive literature review of previous works on the E-Commerce platform in Bangladesh. This section demonstrates by giving an example of different websites and the features of those websites.

CHAPTER 1. INTRODUCTION

(III) Chapter three is about the technical description of our idea. In this section, we are trying to describe the problem we are solving. And we also tried to describe our uniqueness in that project. It also describes the methodology of the project. That means it demonstrates the outlook of our project and gives the details the working process of our website.

(IV) Chapter five provides the Implementation method of our project.

(V) Chapter six is on discussion and future work. It includes the limitations and issues we faced to implement this entire project. It also describes possible future development of this project work.

RELATED WORKS

There are lots of E-commerce websites that are providing grocery items to users. Every one of them has some uniqueness by designing, features, and delivery systems, product view quality, product availability. For developing our website, we had to study some existing websites that are giving services close to us. As we are focusing on the local grocery shop items, so we wanted to study some E-commerce websites that are selling grocery items[14].

2.1 Online Selling Marketplace For Everything

2.1.1 Daraz

Daraz[4] provide their product with the shop name. When user search for a particular product, the product will have the information with the shop name and the price. It is pretty similar to our project. Our project will focus on the grocery product and that is a major difference between daraz and our platform. In the other hand we will provide the nearest shop which daraz don't provide.

2.1.2 ClickBD

ClickBD[2] is an online marketplace to sell every kind of product. It is focusing on tech-related products. On the first page, the user will find many products related to computers. It's an online marketplace where people can sell and buy almost anything. Products are

CHAPTER 2. RELATED WORKS

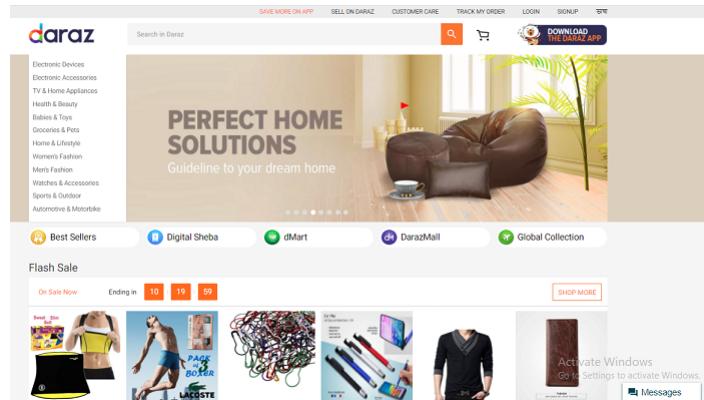


FIGURE 2.1. E-commerce platform of daraz.com.

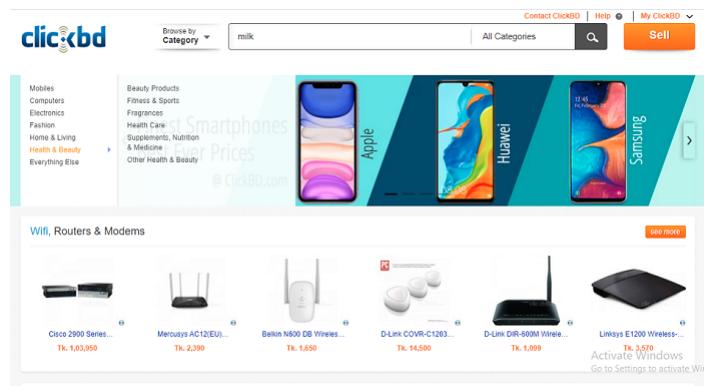


FIGURE 2.2. E-commerce platform of ClickBD.com.

traded in a wide range of categories including Electronics, Cameras, Computers, Laptops, TV's, AC's and Fashion & Accessories.

2.2 Online Selling Marketplace For Specific Type of Product.

Some websites focusing on a certain type of product. Like they are selling the Grocery product, Fashion, Book, etc. Whenever the user wants to have these specific type of product, they can visit that website and choose their desired product.

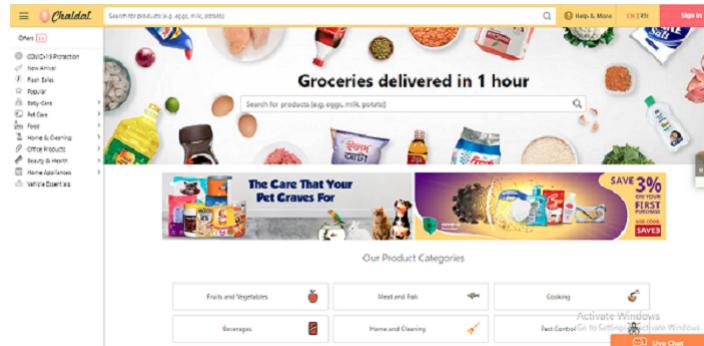


FIGURE 2.3. E-commerce platform of Chaldal.com

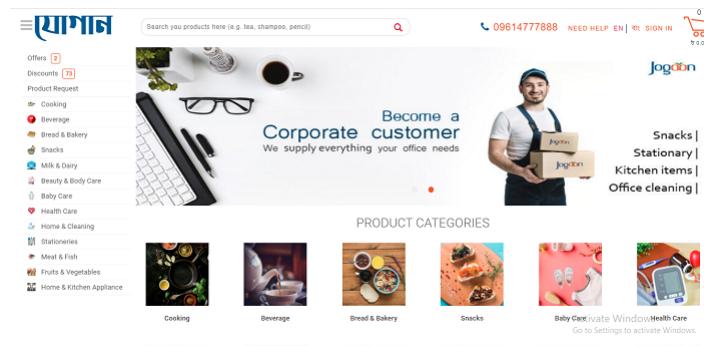


FIGURE 2.4. E-commerce platform of Jogaan.com.

2.2.1 Chaldal

Chaldal[1] provides the grocery product. When user search for a particular product, the product will have the only information with the price. In Dhaka city Chaldal has several ware house, from the nearest warehouse. In our platform user will have the local shop and we will give them the list of the product contains in that shop. In our platform it will behave like real life grocery marketing.

2.2.2 Jogaan

It almost same as the Chaldal.Jogaan[7] also provides the grocery product. When user search for a particular product, the product will have the only information with the price. In Dhaka city Jogaan has several ware house, from the nearest warehouse. In our platform user will have the local shop and we will give them the list of the product contains in that shop. In our platform it will behave like real life grocery marketing.

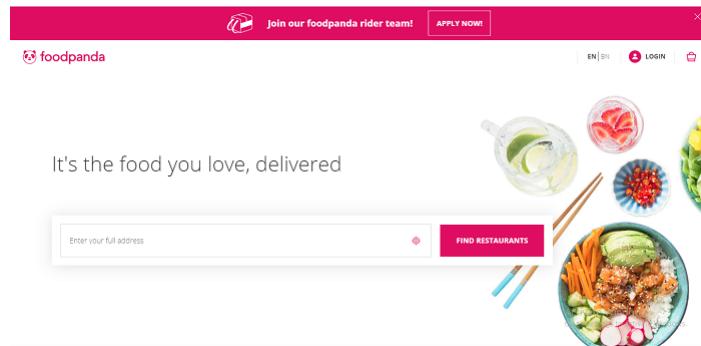


FIGURE 2.5. E-commerce platform of FoodPanda.com.

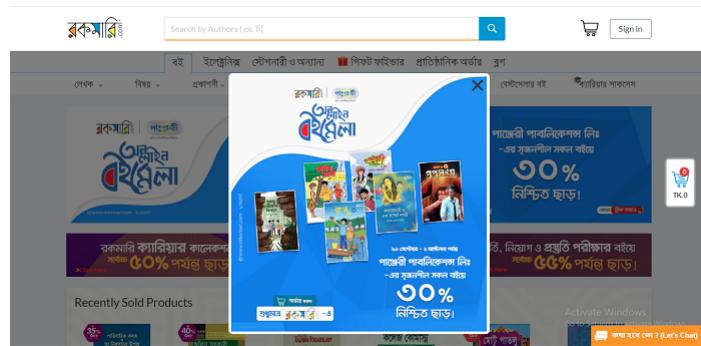


FIGURE 2.6. E-commerce platform of rokomari.com.

2.2.3 FoodPanda

Foodpanda[10] is a mobile food delivery marketplace owned by Berlin-based company Delivery Hero SE and operates in about 50 countries. FoodPanda is specialized for restaurant related product. Nowadays it also provide grocery product. In this website, user has to search the location of the desired shop and they will find the shop based on their search location.

2.2.4 Rokomari

Rokomari.com or Rokomari dot com [9] is a Bangladeshi e-commerce site. It officially launched on January 19, 2012. Initially, it started selling only books, but now sells DVD, video tutorial, sporting goods, Onnorokom Science boxes, calculator, watch, pendrive, computer accessories and more.

METHODOLOGY

There are lots of established E-Commerce website around the world. There are lots of features available in these E-Commerce websites. Different E-Commerce website has different specialty. Different E-Commerce website try to solve some specific problem and that becomes their specialty. We are focusing on bringing every local shop of the user to this platform.

3.1 What Is New in Our Website?

Like other website, we wanted to focus on some specific field which will be our specialty. We wanted to solve our daily life problem. Like, what if people can buy their grocery product from the shop they know. And the delivery will be quicker than other platform also the delivery charge should be lesser.

3.1.1 Local Shop

In real life, whenever we need something daily necessary product like flour. Then, you need to go outside and find any local shop in your territory and you choose the local shop to buy that product. Like this example, we want to bring that idea in our platform. Whenever you visit that website you will find lots of local shop name which, are located in your area and you will choose a local shop to buy your necessary product. You will visit a shop and ask for your desirable product.

3.1.2 Quick Delivery System

As the user will choose the local shop from their territory, that means the shop will be close to the user house and the delivery man has to cover shorter distance. Just because of that feature the delivery system will be quicker than other system.

3.1.3 Money Save

As the delivery man has to cover shorter distance to deliver the product, the delivery charge will be lower than other system. That's is how the user can save more money by using that platform.

3.1.4 Time Save

The delivery man will have to cover short distance, because the source of the product isn't that much far from the user. That's how more time will save by using that platform.

3.2 Economic Benefit for The Society

We know that time is valuable. In a busy city like Dhaka, we always have to face lots of traffic. If we can save our valuable time from doing some extra work like grocery shopping, then our valuable time can save and give us a relax able time to live. We can assure that our platform will be best time saving for delivering the product to user. There is other economic benefit will be occurred like creating new job section. If that business will work, then there will be needing lots of delivery man and engineering to monitor the platform and lots of economic benefit for social people in every sector. Most importantly, when the user will buy a product from a shop, we will give the order to the delivery man located in the users' area, so the delivery man will deliver the product by collecting it from the local shop in the users' area. And we will give the actual price to the vendors from whom the products were ordered.

3.3 HTML

The full meaning of HTML is HyperText Markup Language[5]. This is the most basic building of the web. This language also support other lagnuage like, CSS, PHP,



FIGURE 3.1. Basic structure of HTML

JAVASCRIPT, etc. It support video audio, graphics etc. HTML are generally used to describe web page's presentation.

3.4 CSS

Cascading Style Sheets (CSS) is a simple mechanism for adding style (e.g., fonts, colors, spacing) to Web documents[3]. These pages contain information on how to learn and use CSS and on available software.

3.5 PHP

PHP[11] is a server-side scripting language that is used to develop Static websites or Dy-namic websites or Web applications. It is designed for web development to implement dynamic web pages and can be embedded into HTML for it to be displayed. Figure 2 demonstrates how the web server operates.

3.6 JAVASCRIPT

JavaScript can be abbreviated as JS[6]. It is a high-level object oriented programming language. It also uses for advanced design issue. It can be used to, handle requests and responses and also add dynamic behavior and also store information on a website.

```

/* Template Style
Edit this section*/

body {
    font-family: Arial;
    line-height: 2;
    font-size: 16px;
    background: #fff;
    color: #848484;
    font-weight: 300;
    overflow-x: hidden;
}
body.fh5co-offcanvas {
    overflow: hidden;
}

a {
    color: #ff5722;
    -webkit-transition: 0.5s, ease;
    -o-transition: 0.5s, ease;
    transition: 0.5s, ease;
}
a:hover {
    text-decoration: none;
    color: #ff5722;
}

```

FIGURE 3.2. Basic structure of CSS

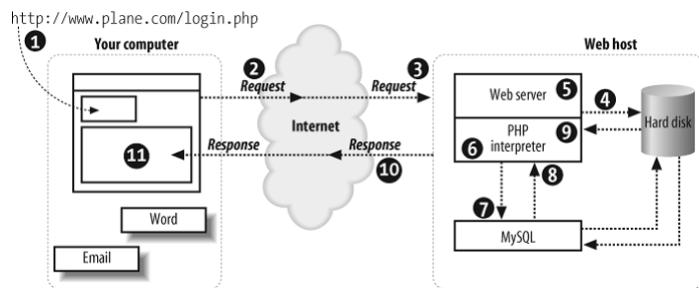


FIGURE 3.3. How the web server operates using PHP

3.7 MySQL

MySQL[8] is written in C and C++, so it is compatible with most of the operating systems available around the world. MySQL is an Open Source Relational Database Management System.

```
3  <head>
4     <meta charset="utf-8">
5     <meta name="description" content="Your description>
6     <meta name="keywords" content="one, two, three">
7
8     <title>J is for JavaScript</title>
9
10    <script>
11        </script>
12
13    </head>
14    <body>
15        <h1>JavaScript Was Here</h1>
16    </body>
17 </html>
```



FIGURE 3.4. Example of JavaScript code

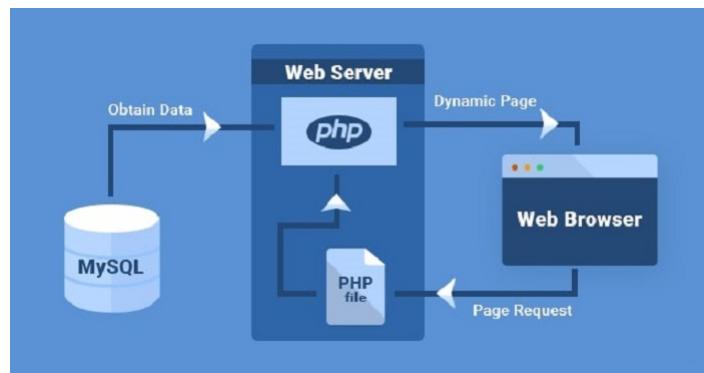


FIGURE 3.5. A Diagram to show, how MySQL connect database

3.8 XAMPP

XAMPP (or) is a free and open source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. XAMPP stands for Cross-Platform (X), Apache (A), MariaDB (M), PHP (P) and Perl (P). It is a simple, lightweight Apache distribution that makes it extremely easy for developers to create a local web server for testing and deployment purposes.

3.9 Sublime Text

Sublime Text is a text editor written in C++ and Python available on windows, Mac and Linux. A text editor is a program developers write their code in. History behind it goes back to 2007 when its creator Jon Skinner quit his job at Google in order to pursue one

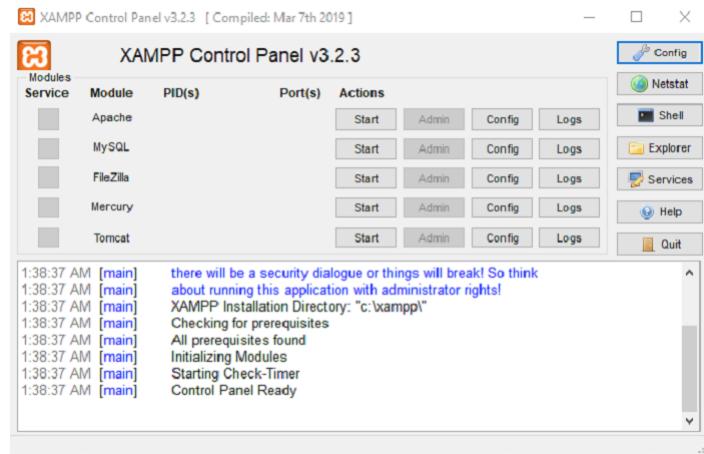


FIGURE 3.6. A Diagram to show XAMPP

of his dreams : Create a better text editor

3.10 PhpMyAdmin

PhpMyAdmin is a free and open source MySQL management program application written in PHP and was first launched in 1998 under the GNU preferred Public License. It is cross-platform help for the essential working structures and helps management of more than one servers. It supports most MySQL capabilities and has an intuitive net interface.

3.11 Block Diagram of Our Project

It describes the relation between the user and the administrator. What administrator can do and what user can able to do. What feature will be available for the user is also visible in that figure.

3.12 Guest View For Buyers

3.12.1 Home Page

At the top there is the logo of our website and we named it as “MyArea”. We named it as “MyArea”, because user will find the shop of their area. After visiting the website user will find different button named as home, shop, contact, vendors. By clicking the

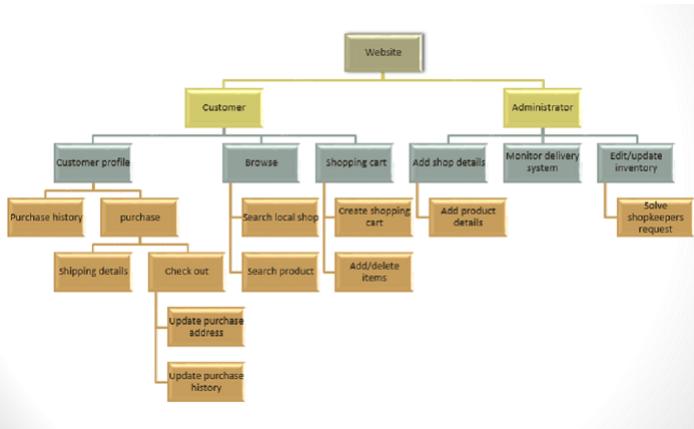


FIGURE 3.7. This figure shows the relation between the User and Administrator



FIGURE 3.8. This figure shows the home page of our website.

shop page guest will automatically enter the shop page, where guest will find every product with the shopkeeper information. There is a search button, where user can search for the product.

In the next section of home page guest will find the shop list. The shop list will provide the total shop in that platform.

In the next section of home page user will find the map of the shop. Here user will search for the location of the shop. If guest search for a particular area shop, guest will find the shop location and the shop website in the map location.

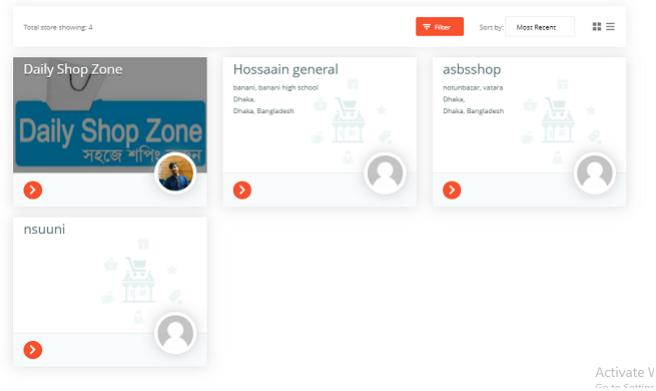


FIGURE 3.9. This figure shows the shop list in Home Page.

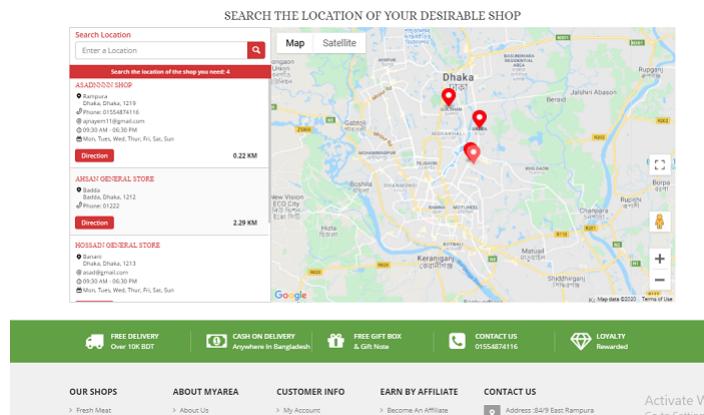


FIGURE 3.10. This figure shows the shop location in Home Page.

3.12.2 Shop page

Whenever user click the shop button in home page, user will find there selves in a new page called shop page. In this page user will find all product available in all vendors. This page will combine every products of all vendors and view all product in the shop page.

In the next section of Shop page guest will find the best seller products in this website, so that guest can understand about the popular products of this website.

CHAPTER 3. METHODOLOGY

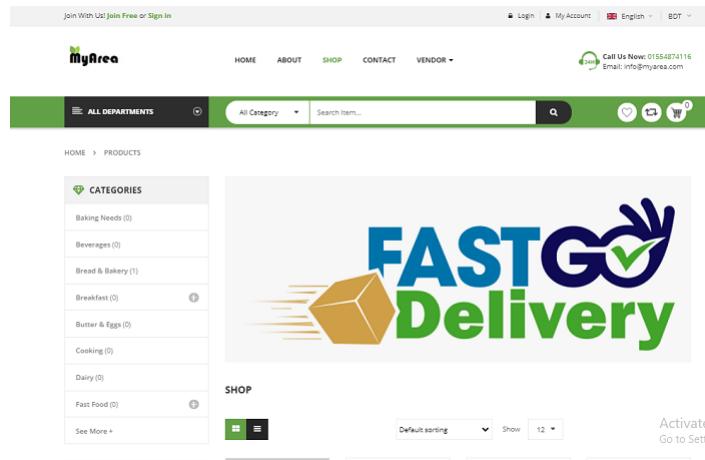


FIGURE 3.11. This figure shows the Product search bar in Shop Page

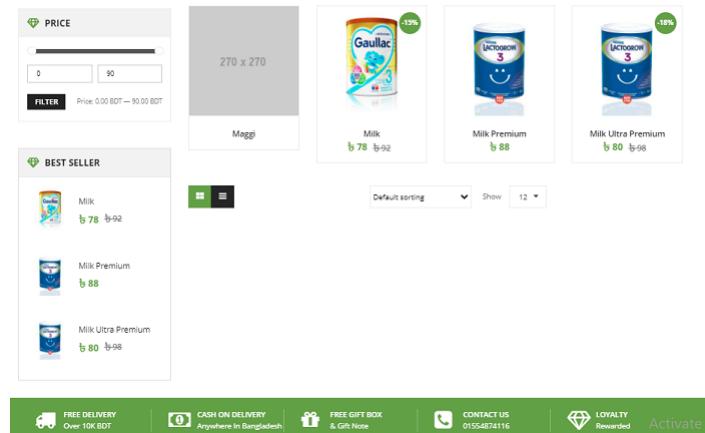


FIGURE 3.12. This figure shows the product based on the search.

3.12.3 Contact page

User will find our location by visiting that page and can contact us with any reasonable matter by visiting that page. They will type the message, they want to send and they will type their email id with necessary information and send the message to authority. Guest also can call to the administrator panel by using cell phone number given in the website.

3.12.4 Registration page

By using this page user can be registered to this website for saving their personal information and the shopping history.

CHAPTER 3. METHODOLOGY

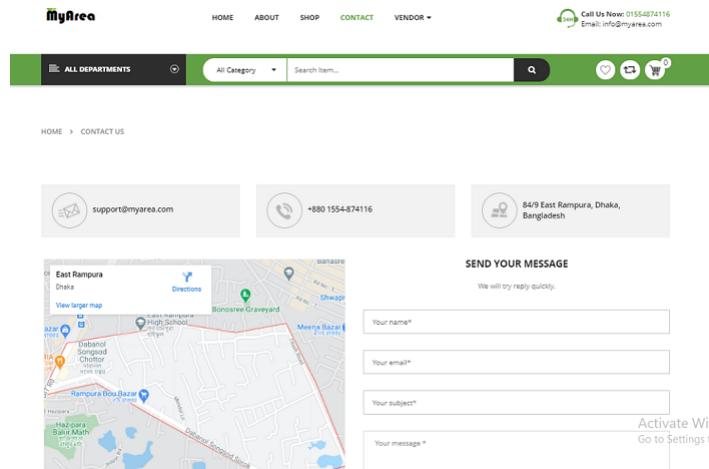


FIGURE 3.13. This figure shows the contact page for the Guest.

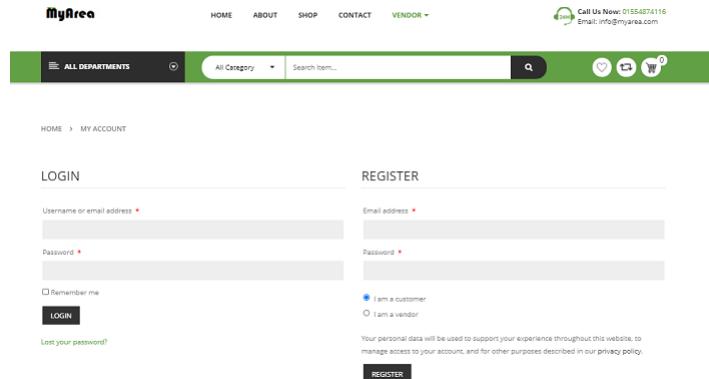


FIGURE 3.14. This figure shows the registration Page for guest.

3.12.5 Guest (Buyers) Home Page

By using this page user can visit their account and they can see their shopping history, if they have any.

3.12.6 Cart page

By using this page guest can see their shopping cart. The customer can add products to the shopping cart. They can also update the shopping cart from time to time until they

CHAPTER 3. METHODOLOGY

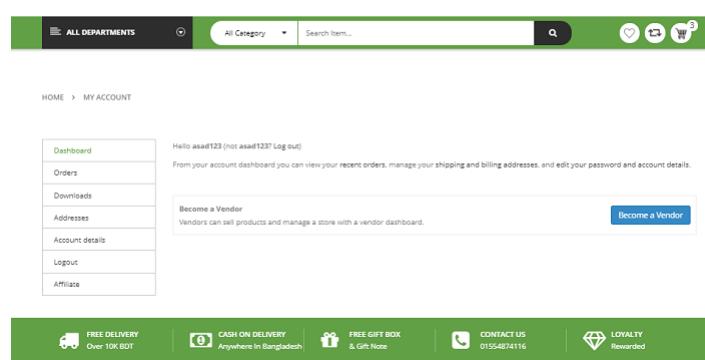


FIGURE 3.15. This figure shows the User Home Page for the guest(buyers).

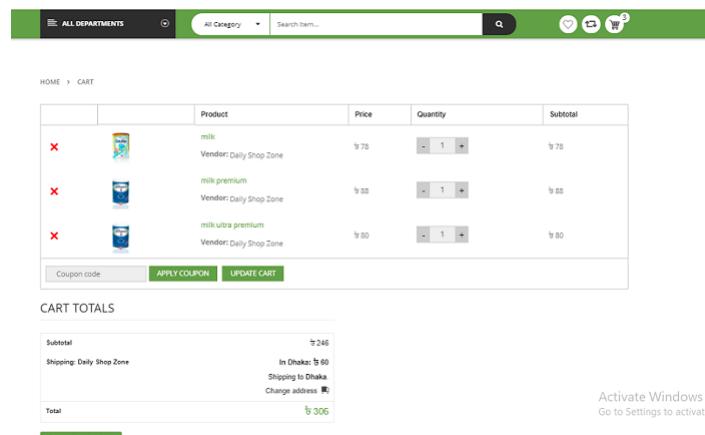


FIGURE 3.16. This figure shows the Cart Page for the buyers

are done shopping. After that, they can check out by clicking on the checkout button.

3.12.7 Checkout Page

In this page guest will give their shipping details to proceed the order.

In the next section of checkout page guest will find the order details with price and delivery cost and additional information of the orders.

Have a coupon? Click here to enter your code

Billing details Ship to a different address?

First name * [Input Field] Last name * [Input Field]

Company name (optional) [Input Field]

Country / Region * [Input Field] Bangladesh

Street address * [Input Field]

House number and street name [Input Field]

Apartment, suite, unit, etc. (optional) [Input Field]

Town / City * [Input Field]

Notes about your order, e.g. special notes for delivery.

Order notes (optional)

Notes about your order, e.g. special notes for delivery.

Activate Windows
Go to Settings to activate

FIGURE 3.17. This figure shows the Checkout Page for the buyers.

Product	Subtotal
milk × 1	৳ 78
Vendor: Daily Shop Zone	
milk premium × 1	৳ 88
Vendor: Daily Shop Zone	
milk ultra premium × 1	৳ 80
Vendor: Daily Shop Zone	
Subtotal	৳ 246
Shipping: Daily Shop Zone	In Dhaka: ৳ 60
Total	৳ 306

Cash on delivery

Pay with cash upon delivery:

- Bkash
- Rocket
- Nagad

Your personal data will be used to process your order, support your experience throughout this website, and for other purposes described in our privacy policy.

PLACE ORDER Go to Settings

FIGURE 3.18. This figure shows the Checkout Page for the buyers.

3.13 Guest View For Sellers (Vendors)

Firstly, a person can register as a vendor or as a customer from the figure below. Vendors have to input their name, email id, shop name, shop URL, phone number & password for the registration.

3.13.1 Vendor Interface Layout

After login, vendor can add product, delete product in their shop. They can see the order list, review from the customer. They can also see and calculate the total sales from the statistics or report for a month and can calculate their earnings. They can edit something

CHAPTER 3. METHODOLOGY

REGISTER

Email address *

Password *

First Name *

Last Name *

Shop Name *

Shop URL *

https://localhost/myareastore/

Phone Number*

I have read and agree to the Terms & Conditions.

I'm a customer

I'm a vendor

Your personal data will be used to support your experience throughout this website, to manage access to your account, and for other purposes described in our [privacy policy](#).

REGISTER

FIGURE 3.19. This figure shows the Vendor Registration Page.

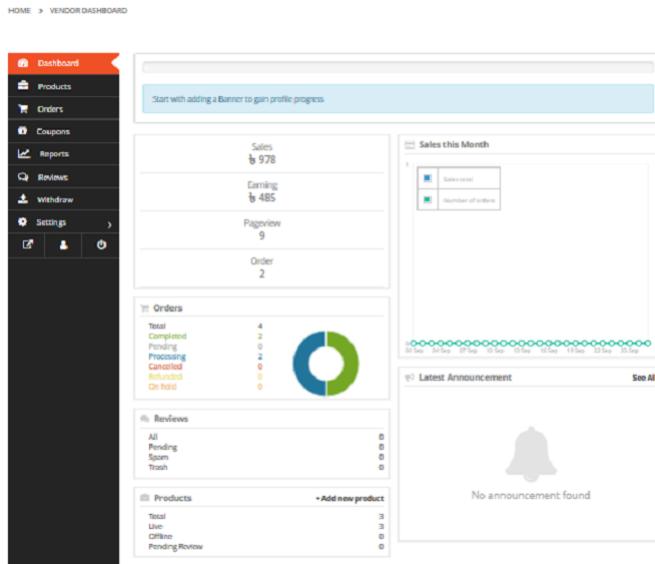


FIGURE 3.20. This figure shows the Vendor Home Page.

from the setting (like shop name, phone number etc). Picture of the dashboard are shown below in Figure.

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HOME > VENDOR DASHBOARD

The screenshot shows a table with columns: Image, Name, Status, SKU, Stock, Price, Earning, Type, Views, and Date. The products listed are:

Image	Name	Status	SKU	Stock	Price	Earning	Type	Views	Date
	milk	Delete	-	In stock	฿ 70	฿ 70	5		March 3, 2017 Published
	milk premium	Delete	-	In stock	฿ 88	฿ 79	3		March 3, 2017 Published
	milk ultra premium	Delete	-	In stock	฿ 98	฿ 80	1		March 3, 2017 Published

FIGURE 3.21. This figure shows the Vendor Product list

HOME > VENDOR DASHBOARD

The screenshot shows a table with columns: Order, Order Total, Earning, Status, Customer, Date, and Action. The orders listed are:

Order	Order Total	Earning	Status	Customer	Date	Action
Order 4608	฿ 226	฿ 209	Processing	Guest	August 27, 2020	Edit
Order 4600	฿ 226	฿ 209	Processing	Guest	August 20, 2020	Edit
Order 4577	฿ 306	฿ 281	Completed	Guest	August 12, 2020	Edit
Order 4510	฿ 220	฿ 204	Completed	Guest	August 7, 2020	Edit

FIGURE 3.22. This figure show the vendor order list

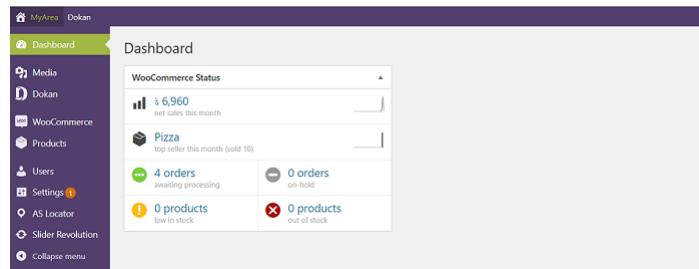


FIGURE 3.23. This figure of Admin Home Page

3.14 Administrator view

Admin can log in first and see the dashboard. The dashboard will show net sale of products along with last sold products. In addition the dashboard also views the product availability and low quantity in stock.

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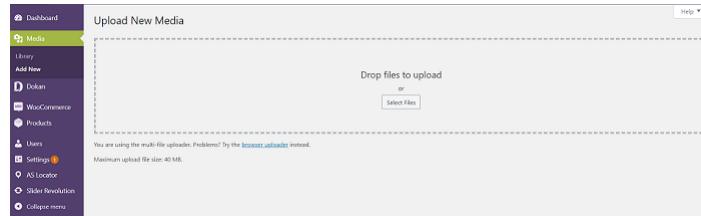


FIGURE 3.24. This figure show the media library in Admin Page

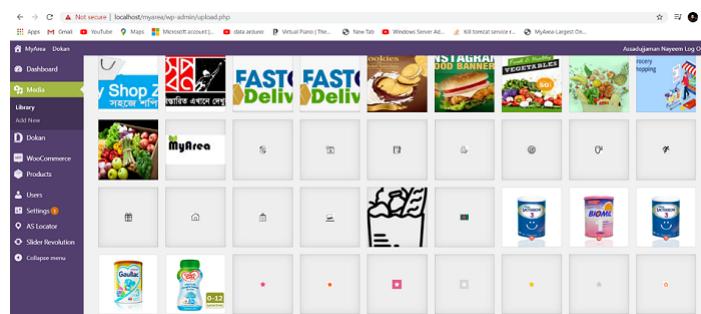


FIGURE 3.25. This figure show the media library in Admin Page

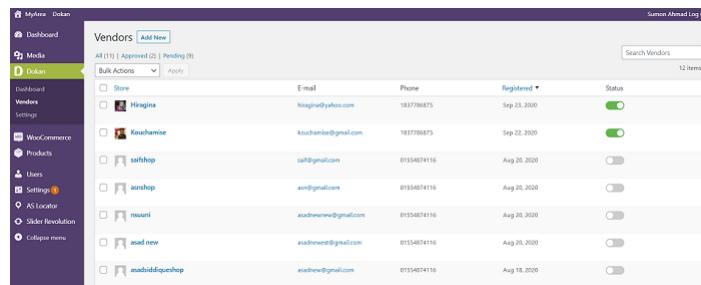


FIGURE 3.26. This figure shows the vendor list in Admin Page.

3.14.1 Media

Media function allows admin to add images for products which can be locally available for adding with other images belonging to different category too.

3.14.2 Vendors Information

This portion shows the number of vendors and admin's accessibility to edit the information about vendors their products and orders. Admin can add vendors too from this panel. Admin can add delete and disable vendors from this section.

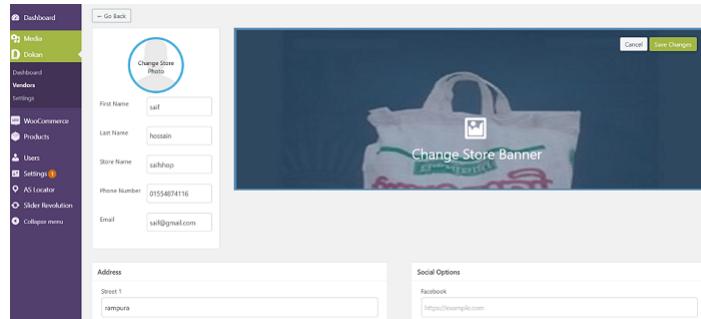


FIGURE 3.27. This figure shows the vendor information.

Name	SKU	Stock	Price	Categories	Author
Toast	65432345432	In stock (140)	1.20	Bread & Bakery	Sumon Ahmad
Soft Drinks	-	In stock	1.35	Beverages	Sumon Ahmad
Chips	65423412345	In stock (100)	+100 1.50	Snacks	Sumon Ahmad
Juice	345678912	In stock (950)	+100 1.20	Beverages	Sumon Ahmad
Biscuits	9876543998765	In stock (990)	+100 1.80	Snacks	Sumon Ahmad
Tea	654345109	In stock (11997)	+100 1.20	Beverages	Sumon Ahmad
Bread	112954567	In stock (100)	+100 1.80	Bread & Bakery	Sumon Ahmad

FIGURE 3.28. This figure shows the Products information.

3.14.3 Products Information

In this portion admin can add products on behalf of the vendors and they can edit the product and delete the products. Administrator can also maintain and monitor the price of certain product.

3.14.4 Users Information

In this section administrator can add new user to work as new administrator. Admin can visualize all other users including all vendors admin. Admin can add new users too.

3.14.5 Map Setting

Adding shops for availability by nearest location which appears at the hosting page of the website. Longitude and latitude coordinate set up by street address input.

CHAPTER 3. METHODOLOGY

The screenshot shows the 'Add New User' page in the WordPress admin dashboard. The left sidebar has a 'Users' section selected. The main form fields include: 'Username (required)', 'Email (required)', 'First Name', 'Last Name', 'Website', 'Password' (with a 'Show password' link), 'Send User Notification' (checkbox checked), and 'Role' (set to 'Shop manager'). A green 'Add New User' button is at the bottom.

FIGURE 3.29. This figure shows the Users information.

The screenshot shows the 'Add New Store' page in the WordPress admin dashboard. The left sidebar has a 'AS locator' section selected. The main form fields under 'Store Details' are: 'Title' (set to 'nisha'), 'Website' (set to 'http://example.com'), 'Description' (empty), 'Additional Description' (empty), 'Phone' (empty), 'Fax' (empty). Under 'Store Address', fields are: 'Email' (set to 'ahmadin@yahoo.com'), 'Street' (set to '15/A sadek road, basundhara residential area'), 'City' (set to 'Dhaka'), 'State' (set to 'Dhaka'), 'Postal Code' (set to '1218'), 'Country' (set to 'Bangladesh'). A note at the top says 'To get started with MailChimp for WordPress, please enter your MailChimp API key on the settings page of this plugin.'

FIGURE 3.30. This figure shows the shop entry in google map.

The screenshot shows the 'AS locator' settings page in the WordPress admin dashboard. The left sidebar has a 'AS locator' section selected. It displays a 'Store Address' form with fields: 'Email' (set to 'ahmadin@yahoo.com'), 'Street' (set to '15/A sadek road, basundhara residential area'), 'City' (set to 'Dhaka'), 'State' (set to 'Dhaka'), 'Postal Code' (set to '1218'), 'Country' (set to 'Bangladesh'). Below the form is a Google Map showing a location in Dhaka, Bangladesh, with various neighborhoods like NAMAPBHA, ZIA COLONY, MES COLONY, and ISH NAGAR labeled. The map includes a legend for 'Map' and 'Satellite' views, and a scale bar. Coordinates are listed as Longitude: 90.4318450999999 and Latitude: 23.818024. A 'Change Coordinates' button is at the bottom right.

FIGURE 3.31. This figure shows the shop entry in google map.

3.14.6 Slider setting

Admin can change the slider in the home page, so that new arrival product, feature product and promotional product can be viewed in the front section of the home page.

CHAPTER 3. METHODOLOGY

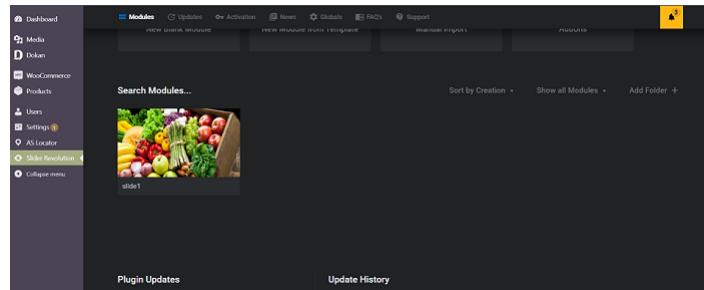


FIGURE 3.32. This figure shows the slider for home page

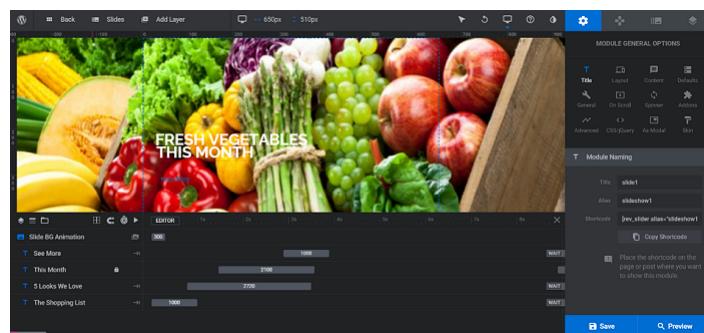


FIGURE 3.33. This figure shows the slider for home page

IMPLEMENTATION

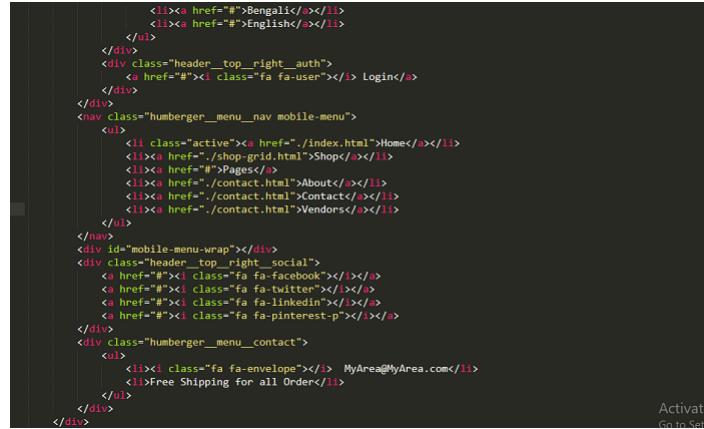
In this chapter we will describe the Implementation method of our website. The entire website made by some free source application with some paid application. The technologies used for the project is HTML5, CSS, PHP, and MySQL.

4.1 Implementation Of Functions

Customer, administrator and vendors interface created in this project by using HTML, CSS, PHP, Bootstrap, JAVASCRIPT. By using HTML we have created the basic structure of the project and we have used CSS to make the design good looking. We have also used JAVASCRIPT to build our website more user friendly.

4.1.1 Basic HTML Of The Website

This is the basic HTML of the home page. Where we will find the navigation bar of the home page. By clicking those button in the navigation bar we can reach to the different page of this website.



```

        <li><a href="#">Bengali</a></li>
        <li><a href="#">English</a></li>
    </ul>
</div>
<div class="header_top_right_auth">
    <a href="#"><i class="fa fa-user"></i> Login</a>
</div>
</div>
<nav class="hamburger_menu__nav mobile-menu">
    <ul>
        <li class="active"><a href=".index.html">Home</a></li>
        <li><a href=".shop-grid.html">Shop</a></li>
        <li><a href="#">Pages</a>
        <li><a href=".contact.html">About</a></li>
        <li><a href=".contact.html">Contact</a></li>
        <li><a href=".contact.html">Vendors</a></li>
    </ul>
</nav>
<div id="mobile-menu-wrap"></div>
<div class="header_top_right_social">
    <a href="#"><i class="fa fa-facebook"></i></a>
    <a href="#"><i class="fa fa-twitter"></i></a>
    <a href="#"><i class="fa fa-linkedin"></i></a>
    <a href="#"><i class="fa fa-pinterest-p"></i></a>
</div>
<div class="hamburger_menu__contact">
    <ul>
        <li><i class="fa fa-envelope"></i> MyArea@MyArea.com</li>
        <li>Free Shipping for all Order</li>
    </ul>
</div>
</div>

```

FIGURE 4.1. This figure gives example of HTML code of our website.

4.1.2 Basic CSS Of The Website

This is the basic CSS of the home page. Where we will find the styling sheet for the current code of home page.

4.1.3 User Registration

In this label we will find the user registration source code. This code is written for the implantation to register in the website.

4.1.4 Database

For the database creation, we have to install XAMPP. After installing XAMPP, we had to visit the PhpMYadmin website. On that website, we have created a database. After creating the database we have created tables for storing our website data. We have created different tables to store different types of data.

In the User section of our database, we have stored all the users' information on our website, this includes the customers, vendors, admin. This section will store every detail of users, like name, id, username, password, email, address, account type, phone no, shipping address, billing address, etc. In other table, we also stored data like we have store data in the users' tables.

```
        display: inline-block;
        font-size: 14px;
        padding: 10px 28px 10px;
        color: #ffffff;
        text-transform: uppercase;
        font-weight: 700;
        background: #7fad39;
        letter-spacing: 2px;
    }

.site-btn {
    font-size: 14px;
    color: #ffffff;
    font-weight: 800;
    text-transform: uppercase;
    display: inline-block;
    padding: 13px 30px 12px;
    background: #7fad39;
    border: none;
}

/* Preloader */

#preloder {
    position: fixed;
    width: 100%;
    height: 100%;
    top: 0;
    left: 0;
    z-index: 999999;
    background: #000;
}
```

FIGURE 4.2. This figure gives example of CSS code of our website.

CHAPTER 4. IMPLEMENTATION

```

if (isset($_POST['login'])) {
    $user_id = mysqli_real_escape_string($db,$_POST['user_id']);
    $password = mysqli_real_escape_string($db,$_POST['password']);
    if(empty($user_id)){
        array_push($errors, "User Id is required");
    }
    if(empty($password)){
        array_push($errors, "password is required");
    }
}

if (count($errors) == 0) {
    //password = md5($password);
    $query1 = "SELECT * FROM user_info WHERE user_id='$user_id' AND password = '$password' ";
    $result1 = mysqli_query($db,$query1);
    $query2 = "SELECT * FROM admin WHERE user_id='$user_id' AND PASSWORD = '$password' ";
    $result2 = mysqli_query($db,$query2);

    //log in for user.
    if ($mysql_num_rows($result1)==1) {
        $query= mysqli_query($db,"SELECT * FROM user_info WHERE user_id='$user_id' ");
        $row= mysqli_fetch_assoc($query);
        $name=$row['username'];
        $user_email=$row['email'];
        $user_country=$row['country'];
        $phone_number=$row['phone_number'];

        $_SESSION['user_id'] = $user_id;
        $_SESSION['username'] = $name;
        $_SESSION['email'] = $user_email;
        $_SESSION['country'] = $user_country;
        $_SESSION['phone_number'] = $phone_number;
        header('location: user_page.php');
    }
}

```

FIGURE 4.3. This figure gives user registration code of our website.

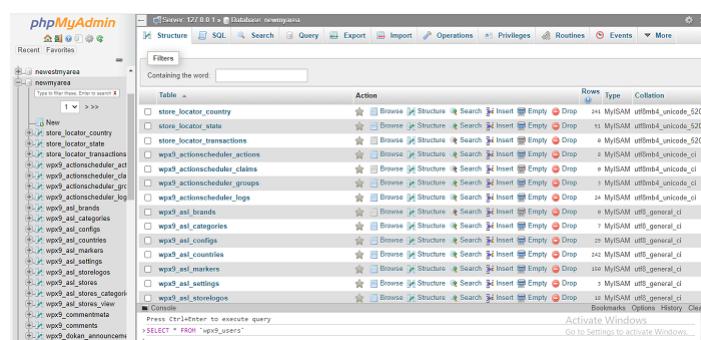


FIGURE 4.4. Basic figure of our database

FIGURE 4.5. Basic figure of our user table database

DISCUSSION

In this final chapter, we briefly explain several complications & limitations related to our project and how we can make the current system more efficient by doing further developments in the future. After that, the concluding parts of the report is included.

5.1 Complications and Limitations

Product quality is the most common problem faced by customers who shop online regularly. The quality of the product is often not to the mark with what is presented in the pictures. Our website is a multi-vendor website. If there is an issue with product quality, people will not be satisfied. We are using a location search for providing the shop to the users, in that case, the user will find the shop in the map location and they will visit the shop by clicking the shop website link. That will be an extra hassle to the user if the product is unavailable to that certain shop. Users will be needing to be visited another shop. It is a grocery website, so the vendor will sell their product by physically and they also sell their product by using this platform. What if the product is out of stock in the current time when the user orders the product from the website. This kind of situation needs to solve. We have planed to solve those limitations.

5.2 Future Work

In the future, we will work in the shop page, where user will search for the product and the product will be visible to them by tracking down the location of the current user so that the user can find the product near to them. If this process developed, then the delivery system will be faster than before.

5.3 Conclusion

In our today's world, everything is becoming technologically advanced. By taking the advantage of that technological help, we are making our life is very comfortable. First E-commerce business emerged in 40 years before. But the facility of that time was not like today. Every day we are having new idea to enlighten our website to more user friendly so that more people can have benefit by using that website. Engineers are trying to design different platform to make a easier process to shop online. In this view we also have built a website with some unique feature by using some open source technologies. In this website people will easily find their desirable shop, so that people can buy the necessary product from the shop they want. In that sense we are bringing our idea to make a good social life.

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