

E-VIRALSHOP.COM ONLINE COSMETICS WEBSITE USING PHP LARAVEL

BY

PARBES MIAH

ID No: 213-15-4333

This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Computer Science and Engineering

Supervised by

DR. SHEAK RASHED HAIDER NOORI

Professor & Head,
Department of CSE
Daffodil International University

Co-Supervised by

MR. MD. SAZZADUR AHAMED

Assistant Professor,
Department of CSE
Daffodil International University



DAFFODIL INTERNATIONAL UNIVERSITY

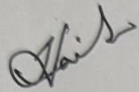
DHAKA, BANGLADESH

JULY 2024

APPROVAL

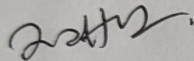
This Project titled "E-VIRALSHOP.COM ONLINE COSMETICS WEBSITE USING PHP LARAVEL", submitted by "Parbes Miah", ID No: 213-15-4333 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on July 16, 2024.

BOARD OF EXAMINERS



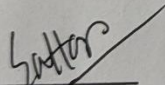
Dr. Sheak Rashed Haider Noori (SRH)
Professor and Head,
Department of CSE
Faculty of Science & Information Technology
Daffodil International University

Board Chairman



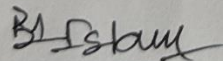
Dr. Md. Zahid Hasan (ZH)
Associate Professor,
Department of CSE
Faculty of Science & Information Technology
Daffodil International University

Internal Examiner 1



Mr. Abdus Sattar (AS)
Assistant Professor,
Department of CSE
Faculty of Science & Information Technology
Daffodil International University

Internal Examiner 2



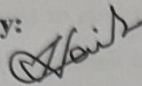
Dr. Md. Monowarul Islam (MI)
Associate Professor,
Department of Computer Science and
Engineering,
Jagannath University.

External Examiner

DECLARATION

We hereby declare that this project has been done by us under the supervision of **Dr. Sheak Rashed Haider Noori**, Professor & Head, **Department of CSE** at Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for the award of any degree or diploma.

Supervised by:



Dr. Sheak Rashed Haider Noori,
Professor & Head,
Department of CSE
Daffodil International University

Co- Supervised by:

Mr. Md. Sazzadur Ahamed
Assistant Professor,
Department of CSE
Daffodil International University

Submitted by:

Parbes 14.07.24

Parbes Miah
ID: -213-15-4333.
Department of CSE
Daffodil International University

ACKNOWLEDGEMENT

First, we express our heartiest thanks and gratefulness to almighty God for His divine blessing making it possible to complete the final year project successfully.

We are grateful and wish our profound indebtedness to **Mr. Md. Sazzadur Ahamed, Assistant Professor, Department of CSE** Daffodil International University, Dhaka. Deep Knowledge & keen interest of our supervisor in the field of “E-VIRALSHOP.COM ONLINE COSMETICS WEBSITE USING PHP LARAVEL” to carry out this project. His endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior drafts, and correcting them at all stages have made it possible to complete this project.

We would like to express our heartiest gratitude to **Dr. Sheak Rashed Haider Noori, Professor & Head, Department of CSE**, for his kind help in finishing our project and also to other faculty members and the staff of the CSE Department of Daffodil International University. We would like to thank our entire coursemates at Daffodil International University, who took part in this discussion while completing the coursework.

Finally, we must acknowledge with due respect the constant support and patience of our parents.

ABSTRACT

The publishing of e-commerce has made a significant advancement in changing the landscape of consumers' purchasing habits when it comes to cosmetics by encouraging companies to create reliable online presences to satisfy these expectations. The e-viral shop is an innovation project for building a more engaging cosmetics store online using tech PHP Laravel. This venture aims to ensure that consumers mainly in the cosmetics category can have a smooth and safe shopping. E-viralShop hm is developed on Laravel; this is a widely used framework that has expressive syntax and numerous powerful features. Thus, the core functionalities crucial for the successful functioning of an online store are implemented in this HM. This is a Beauty Industry and Beauty cosmetics company that develops and constructs itself and constructs its organization for constructing this work. I believe this is Great and Helpful for the future Beauty industry and the expansion of Own Company and patrons/clients' interaction with brands' products and genuine products purchased. Other essential features are User registration and authorization process; further, I will focus on Multivendor-ship and Wholesale options such as the Implementation of the product catalog with a detailed description, and images; Shopping cart and check-out system; System for the orders' management; Administration panel for site controlling; Adapted to the screen size of the devices; Appropriate security measures for guaranteeing the users' data and the payments. In bearing the principles of usability, security, and performance in its development, the E-viral shop's proposition envisions revolutionizing the existing concept of cosmetics and beauty industry wholesale and retail shopping for the diversified purpose of the wholesaling and retail buying public and other consumers in the future market demands. It will also include in the Wholesaler's total amount of discount with all Product brands. Will add also for Wholesaler Total amount of Discount with all Product brands.

TABLE OF CONTENTS

CONTENTS	PAGE
APPROVAL	I
BOARD OF EXAMINERS	I
DECLARATION	II
ACKNOWLEDGEMENT	III
ABSTRACT	IV
CHAPTER 1: INTRODUCTION	1-6
1.1 Introduction	
1.2 Motivation	
1.3 Objective	
1.4 Expected Outcome	
1.5 Project Scope	
1.6 Project Outcome	
1.7 Report Organization	
CHAPTER 2: LITERATURE REVIEW AND DESIGN SPECIFICATION.....	7-20
2.1 Overview	
2.2. Summary	
2.3 Related Works	
2.4 Comparison between existing works	
2.5. Eviralshop SDLC Model or Agile Model	
2.6 Front-end or UI Design or Mockup Design for E-viralshop.com	
2.7 Database	

2.8 Login page	
2.9 Frontend page for E-viral shop	
2.10 Backend page for E-viralshop	
2.11 Single Product page	
2.12 Add to cart page	
2.13 Checkout page	
2.14 Order confirmed page	
2.15: Server o Browser relation	
2.16 PHP Laravel	
2.17 Implementation Requirement	

CHAPTER 3: METHODOLOGY/ REQUIREMENT ANALYSIS AND DESIGN SPECIFICATION 21-25

3.1 Overview 1	
3.2 Summary	
3.3 Requirement Analysis and Research E-viral shop	
3.4 Proposed Methodology/System Design	
3.5 Data Collection/Input-Output Analysis	
3.5 Project Management and Financial Analysis	

CHAPTER 4: CONCLUSION AND DISCUSSION.....26-27

4.1 Discussion Conclusion	
4.2 Future Work and Future Development	

REFERENCE 28

CHAPTER 1

INTRODUCTION

1.1 Introduction:

E-viral shop Known as the Online Cosmetic Business is unique and is constructed by the PHP Laravel framework which makes it easy for busy people to search for and purchase cosmetics products from the internet. About improving the usability, security, and performance, elements applicable for creating the E-viral shop is provided below: Users can safely and effectively self-register and self-authenticate allowing for customization of their experiences as well as safe and effective completion of transactions. The program has a complete product list with description images prices and customers' feedback that ensures a buyer's friendly interface. Easy to navigate shopping cart and check-out system, and payment methods, the customer is guaranteed a smooth buying experience; furthermore, the E-viral shop provides a simple management system for orders and orders' status, and customers can check on their orders conveniently. Admin gets to coordinate site operations efficiently with a control panel, and the platform is designed to adapt to devices' screen sizes. Encryption methods and a safe payment platform protect the customers' information and their transactions. In general, an E-viral shop's mission aims to revolutionize the experience of purchasing cosmetics online through an enhanced, rich in features and focused-on-needs' needs website developed with the help of PHP Laravel. The e-viral shop will maintain with good user experience in the future and be updated for my consumers as well as my wholesalers and retailers.

1.2 Motivation:

I was motivated to do this project by BD Cosmetics Industry and Brands. Where I know that about the cosmetics industry and cosmetics brands doing online hassle-free shopping experiences. Based on this, I have created an E-viral shop website with PHP Laravel for the Global Cosmetics Industry. We have derived E-viralShop from a combination of market trends and consumer needs. The cosmetics industry is by far one of the sectors that has seen so much movement towards online shopping, we have noticed the opportunity to build an online cosmetics sales store in line with the increasing demand. Our main reason is to offer a platform for clients that not only facilitates their buying process but also goes beyond their expectations regarding simplicity and variety of goods. Through E-viralshop, we seek to provide a professionally designed user interface that will assist beginners in this complex world to navigate through the entire shopping experience smoothly. We want to use PHP Laravel as it offers easy navigation capability while being intuitive enough for anyone who wishes to buy beauty products simply by browsing, searching, and checking out just like any other ordinary transactional site Security is another important aspect of E-viralshop. In these days of protecting one's data from third parties, we are determined to

introduce strong measures aimed at protecting our customer's private information and transactions as well as secure payment gateways. Over here encryption methods and safe transaction portals would give our customers peace of mind when they are making purchases on our site itself. Besides showcasing various options, product diversity is also given prominence on this platform. E-viral shop will feature a comprehensive catalog of cosmetics products, spanning makeup, skincare, haircare, and fragrance.

Our goal is to provide for a wide range of customer tastes and interests in our platform. E-viralShop needs efficient order management processes and on-time delivery. We have made our order processing system as simple as possible so that customers can enjoy without any hustles the shopping experience. We aim to help mobile shoppers who are increasingly becoming a major segment by prioritizing mobile responsiveness such that our platform can be used on different devices with varying screen sizes. At last, our main aim is not only to create another online cosmetic shop but also to make sure that E-viralShop becomes the best place for people who love cosmetics. Our target is to come up with new standards of online cosmetics retailing and, at the same time drive growth and success on our platform through unique features, exceptional customer service, and constant improvements based on user feedback.

1.3 Objectives:

My main objective is to make the Website for Cosmetics easier by shopping experience online and accessing all the necessary beauty and cosmetics brands all in one. Thus, we can make the right decisions upwards and Make this one for E-viral shop.com. The E-viral shop Cosmetics e-commerce website created with PHP Laravel for the targeted beauty products shopping portal's online presence fulfills all the necessities of an ideal e-commerce website. The first goal is to include benefits of simplicity aimed at ensuring that the interface design of any software is easy to navigate and to access by all users. Performance is measured as a critical goal, thus, the loading speed of the site is professional, and the transactions processed on the site do not cause frequent disruptions. Security is of great concern and the website observes the required safety standards to keep users' information secure and to be compliant with the data protection policies. The platform should be flexible, and allow the handling of the growth in traffic, and the additional products that will be listed once the business picks up. A good system for the management of inventories means that there is an effective way to identify low artifact stock and this is achieved by having a good tracking system. Comprehensive data analytics are used to extract the data on customers' behavior and then use this data to complete business and marketing decisions. Easy integration with third-party tools for payment processing, shipping, and customer support is provided; moreover. Lastly, customer help for various customer concerns and inquiries is made available through many approaches,

leading to efficient management of the concerns and retention of loyal customers. To sum up, this objective collectively works for the creation of E-viralShop as the leading online store for cosmetics.

1.4 Expected Outcome:

- When I made E-viralshop.com at that time, I researched some e-commerce cosmetics websites like AjkerDeal, Liraimport, Shajghoj.com, etc. for a Perfect and Goal Oriented Business Running.
- After Finishing that project, I think I can have a great experience with my contribution and this is a future project for an ongoing local Cosmetics Company.
- In the future, I will be doing this e-viralshop.com, an outstanding Cosmetics website for international Cosmetics brands.
- Build Website Security and encryption data and authentication features for consumer secure payment transactions and secure shipping.
- Explore new markets and reach a global and local audience and make it more brand value and sales.
- Customer support features need to be very highly updated and set a live chat system for customers, and satisfaction and loyalty very highly needed.
- Make it easy to use and smoother for customer browsing experience with their low network speed.
- Make for a good relationship with customer satisfaction and need to improve the good relationship with give some brands products.
- Influencers and bloggers need to be a features system for affiliations and a great opportunity for celebrities
- Provide high-quality products at a limited affordable price and make it very customer supportive.

1.5. Project Scope

- Development of a dynamic online cosmetics platform made by PHP Laravel and other platforms.
- Implementation of user registration and authentication features also Multivendor option
- Management of a comprehensive product catalog including makeup, skincare, haircare, and fragrance products.
- Integration of shopping cart and seamless checkout functionalities.
- Incorporation of order tracking and management systems for users and administrators.
- Creation of an intuitive admin panel for efficient website management.
- Responsive website interface for desktops, tablets, and smartphones.
- Implementation of security measures including encryption and secure payment.
- Conducting thorough testing for functionality, usability, compatibility, and security.

- Provision of comprehensive documentation and training for users and administrators.

1.6 Project Outcome

- Creation of a fully operational online cosmetics platform providing a seamless shopping experience.
- Implementation of secure user registration and authentication mechanisms. Presentation of a diverse product catalog with detailed descriptions and images.
- Establishment of a smooth shopping journey, from browsing to checkout. Facilitation of efficient order tracking and management for users.
- Provision of an intuitive admin panel for streamlined website management.
- Development of a responsive website design adaptable to various devices.
- Integration of robust security measures to safeguard user data and transactions.
- Aims to establish E-ViralShop as a leading online cosmetics destination, driving growth and success in the e-commerce market.

1.7 Report Organization

Online shopping nowadays has changed how people buy things, especially in the world of cosmetics. The E-viralShop Cosmetics site was set up to make buying top-quality cosmetics easy and convenient. We picked PHP Laravel for its strong & elegant secure framework. Our goal? To give our customers an unforgettable shopping experience. Creating an E-viralShop wasn't a simple job. It took a lot of planning, research & teamwork. We made sure every step—from figuring out what we needed to finally launch—was done with care to maintain high quality. We wanted to make sure we met users' needs perfectly. This report is like our baby. It includes all the nitty-gritty details, from methods to technology and design strategies (including challenges faced and solutions found). We believe that using E-viralShop Cosmetics will change how beauty lovers shop online: a dependable platform that makes shopping fun! Dive into the next chapters to see our approach, findings & the big picture of this project's impact.

- **System Design for report :**

As for the E-viralshop Cosmetics website with PHP Laravel, the system design shall be Operable/Sustainable/Efficient. First, there is a specification of the overall architecture of the system, which is a high-level plan of the structure of the system. Here, PHP Laravel has its great responsibility to make a scalable and responsive framework. The corresponding part reveals the optimized database schema and the management of data. Data handling is done efficiently with the help of PHP Laravel's ORM features. Modular design principles? Yes, they are utilized to enhance the availability of code reuse and Application Programming Interfaces for the critical functions of most websites. Here the front-end development is rather smooth and easy with the help of the PHP Laravel templating engine. Security is

crucial too. Other components are also put into the tools set, such as basic PHP Laravel users' authentication & encryption belonging to HTTPS as a standard for data protection. As for the frontend of E-viralShop, it was developed using such highly popular languages as HTML 5, CSS 3, and JavaScript; the readability was provided by using such frameworks as Bootstrap or Tailwind CSS. Vue. JS or React is used where there is a need to develop a dynamic interface that improves engagement with users. This strategy ensures that the laid down website design incorporates and is responsive to designs of all types of devices including the desktop, tablet and the mobile phone. Development and deployment are made easier through Git for version control, CI/CD pipeline for testing and deploying the software, and infrastructure for scaling and reliability like AWS or Azure.

CHAPTER 2

LITERATURE REVIEW AND DESIGN SPECIFICATION

Here is a sample of my design for this eCommerce website system. It has been explained that I have applied and implemented all the unique things and features to complete this e-commerce website for the Beauty Industry. Here I have demonstrated how it is tested after presenting my website system.

2.1 Overview (Literature Review):

The literature review carried out with regards to the E-viralShop project probes into the topic on the changing face of online cosmetic product selling and features of the PHP Laravel framework to be used in the development of the proposed website. Studies show that customers have drastically changed purchasing habits relying on online store buying of cosmetics attributed to convenience, product range and customer engagement. Explanations for promoting user-oriented design principles focus on such factors as ease of usage and navigation that is critical to the interaction of customers with e-business platforms. Studying the contemporary literature on the PHP Laravel framework is an effective way to investigate the validity of this framework for the development of scalable and reliable web applications. Some of the highlighted advantages are modularity, numerous libraries, and a large number of developers that help in the effective development and support of complex web applications such as E-viralShop. Literature of security stresses that e-commerce site operators must enforce security measures at the highest levels to safeguard users' data as well as secure transactions. Implementation of good policies and guidelines in concerning E-viralShop functions in encryption, authentication, and compliance with the industrial standards is inculcated in the security strategy of E-viralShop. In addition, competitive analysis and marketing information cannot be overlooked as the information from the literature gives an additional perspective of different strategies to current and lucrative online cosmetics retailers. Market trends, pricing techniques and customer acquisition strategies are used in the positioning and marketing strategies of E-viralShop, ensuring its competitiveness in the crowded online cosmetics market. By synthesizing and critically evaluating these diverse sources of literature, the review informs the strategic direction and implementation of the E-viralShop project, aiming to deliver a secure, user-friendly, and innovative online cosmetics platform using PHP Laravel.

2.2 Summary:

This outlines the background information necessary to appreciate the existing competition and the reason behind selecting PHP Laravel for the said site. The outcome of the literature review focuses on the emergence of a relatively new sector within the beauty industry, namely cosmetics sold online due to the popularity of buying products on the internet, the impact of social media, and the presence of beauty bloggers. Loyal readers expect targeted and easily navigated sections with vast stock and detailed descriptions, as well as other clients' feedback. Thus, mobile friendliness and website speed are of significant importance for keeping visitors engaged and avoiding such negative phenomena as high bounce rates. Also, the issues of security and trust are critical for most of the platforms with a focus on safe transactions and meeting the requirements of data protection legislation like GDPR. Several observations can be made when E-viralShop is compared to similar rivals. It should be noted that Aarong Online is already a recognized brand, but at the same time, it does not have a clearly defined focus on cosmetics, which E-viralShop will offer. The former includes a rather vast list of products; the latter guarantees its easy and efficient control. Noticeably, although PriyoShop provides a vast number of products, it does not target the beauty segment as E-viralShop does. Lira Import offers only brands across the globe for accessible prices more than the competing firms and on the other hand, E-viralShop offers both domestic and foreign products more competitively. While BDBUDGET is aimed at affordable products, it has no premium products and services, which are mastered by E-viralShop which offers a range of products and services. Moon's Gallery and Lifestyle sell access to unique items but to a small number of clients, whereas E-viralShop sells a wider variety of items appealing to a wider audience. Daraz Cosmetics and Beauty BD cover a large selection but are inconsistent in quality whereas e-ViralShop makes a good and careful choice with its selection. Last but not least; AjkerDeal provides the facility of frequent deals but a quite general products category where as e-ViralShop assures about the quality of cosmetic products with Features & Specification.

The methodology incorporates a blend of qualitative and quantitative research to gather insights into user preferences and market trends, engaging stakeholders through surveys, interviews, and focus groups to define clear requirements. Requirement analysis identifies both functional and non-functional needs, such as secure payment processing, user authentication, and efficient product management, ensuring the website aligns with user expectations and business goals. System design leverages PHP Laravel's MVC architecture for modularity and scalability, featuring a well-structured database, user-friendly interface, robust security measures, and performance optimization.

In conclusion, Chapter 2 establishes a solid foundation for the development of the e-viralShop Cosmetics website, highlighting its strategic advantages, user-centric design, and competitive edge in the online beauty market.

2.3 Related Works

1. Aarong Online

2. Shajghoj
3. Prioyshop
4. Liraimport
5. BDBUDGET
6. Moon's Gallery and Lifestyle
7. Daraz Cosmetics and Beauty BD
8. AjkerDeal
9. Draz campaign
10. Beauty Bd
11. Online Cosmetics
12. Banglashopper
13. OHSOGO etc.

2.4 Comparison between existing works:

Table 1. Comparative analysis with previous work

Website Name	Strengths	Weaknesses
Aarong Online	Established brand, wide product range	Limited cosmetics focus, inconsistent user experience.
Shajgoj	Extensive product range, engaging content.	Overwhelming navigation, occasional stock issue
PriyoShop	Wide product range, competitive pricing.	Less specialized in beauty, generic user experience.
Lira Import Ltd	Exclusive international brands.	Higher prices, limited range.
BDBUDGET	Affordable beauty products.	Limited premium offerings, basic design.

Moon's Gallery and Lifestyle	Unique and personalized products	Limited mainstream beauty focus.
Daraz Cosmetics and Beauty BD	Large platform, wide variety.	Inconsistent quality, less personalized.
AjkerDeal	Large platform, frequent deals.	General focus, potential quality issues.

2.5 E-viralshop SDLC Model or Agile Model :

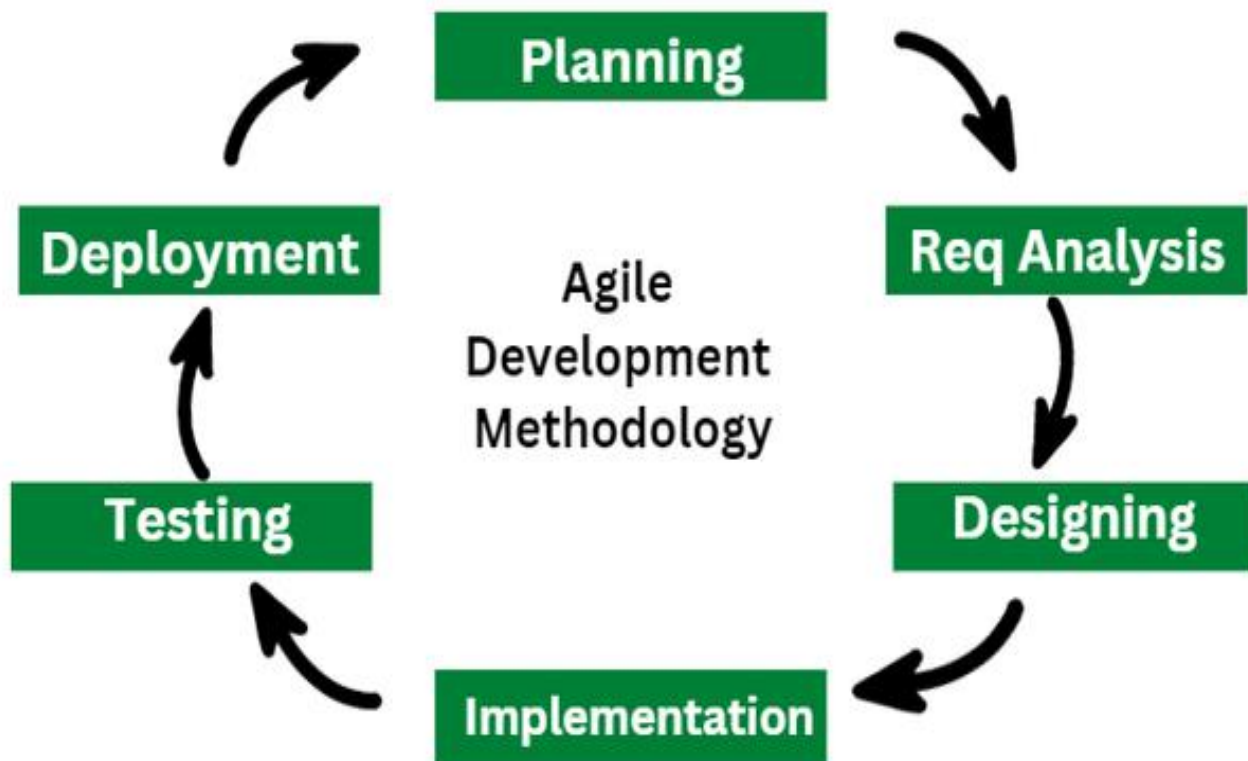


Figure 2.1: Agile SDLC mode/E-viralshop model

Agile Methodology List:

Planning: It can be seen that the team identifies project goals during the planning stage according to the agile model in terms of what has to be achieved in each of the sprints. This involves the definition of the extent and boundaries of the work to be done in the project documentation, the assessment of the major players that stand to benefit from the project and the preparation of a basic framework of the conceptual design of the system. The development methodology as well as the processes and working practices to be used is set up by the team.

Requirement Analysis: During the requirement analysis phase, the members engage the stakeholders to gather and review the requirements of the intended system. This involves eliciting requirements and cascading them in terms of their criticality. Also, the team has to reveal all risks and constraints which can be faced throughout the project's accomplishment and determine how to avoid them.

Designing: At this step, the formation of the prototypes of the system interfaces and components is performed by the team with great details. These are the required prototypes, architectural layout, and pattern of implementation by the team of developers. This phase's aims are to ensure that the development of the system has an excellent foundation, which has an additional objective of ensuring that the design of the system is both scalable and consistent.

Implementation: In implementation, the team assembles the various components of the system and forms them into the entire design. What sets the team up is the fact that they offer usable software at the end of every sprint. The team also alters the backlog of needs and ensures that the system is being implemented in line with the laid down design.

Testing: The actual level of validation is carried out during the testing phase where each of the sub-systems is exercised and certified to meet the published standards. The crew also identifies and reports any faults or issues that are likely to arise during testing. The goal of this phase is thus to make certain that the system is of high quality and ready for use.

Deployment: In this last phase, the system is deployed with the end users. From personal knowledge, The team installs the system with assistance from the stakeholders and also provides any help or orientation needed. This phase's goal focuses on verifying that the system is installed properly so that the end users will be able to use the system effectively.

2.6 Front-end or UI Design or Mockup for E-viralshop.com

The purpose of E-viralShop Cosmetics, a company selling beauty products through an e-commerce website is to develop an attractive functional design that will supplement the product experience. The design examines the website's functionality and accessibility, as well as the website's aesthetic quality, in terms of attracting and maintaining consumers' interest.

Key Points of Design website :

- Responsive Design
- Clean and Modern Aesthetics
- Intuitive Navigation
- Product shop page
- Shopping cart and checkout
- My accounts page
- Contact support
- Privacy and Policy system
- Multivendor system or seller system
- Terms of Services
- Money back gurantee
- Product cateriess
- Product design
- Footer Design
- Follow us section
- Etc

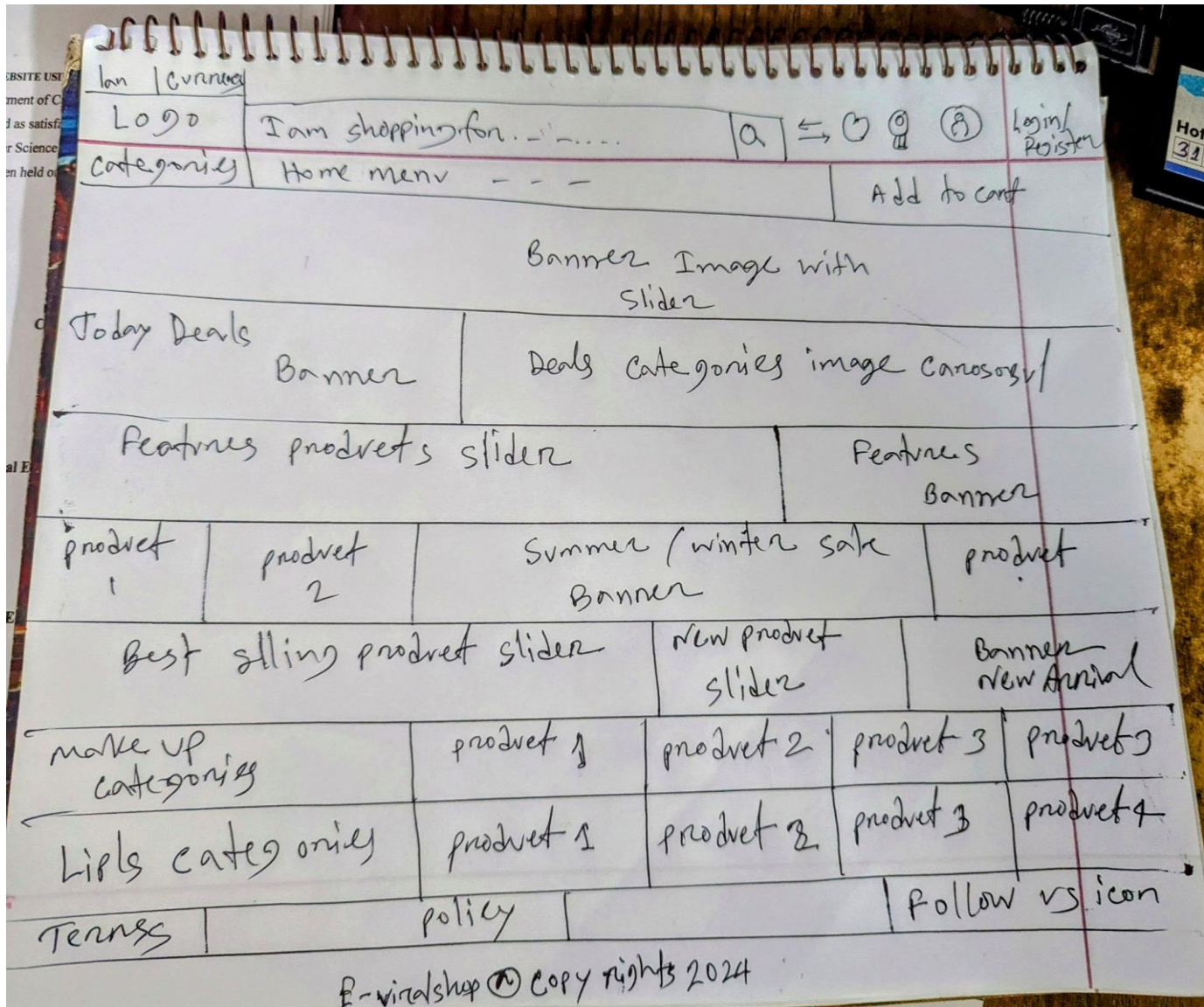


Figure: Front-end or UI Design or Mockup for E-viralshop.com

2.7 Database:

- MySQL, pronounced either "My S-Q-L" or "My Sequel," is an open-source relational database management system. It is based on the structure query language (SQL), which is used for adding, removing, and modifying information in the database. As shown in figure no 2.2.

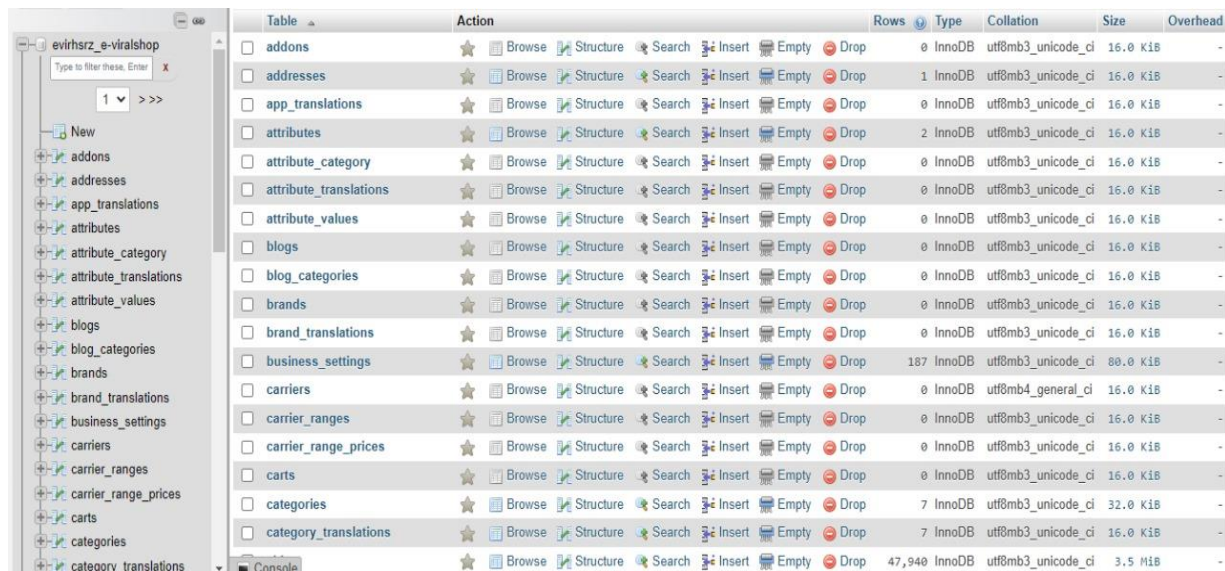
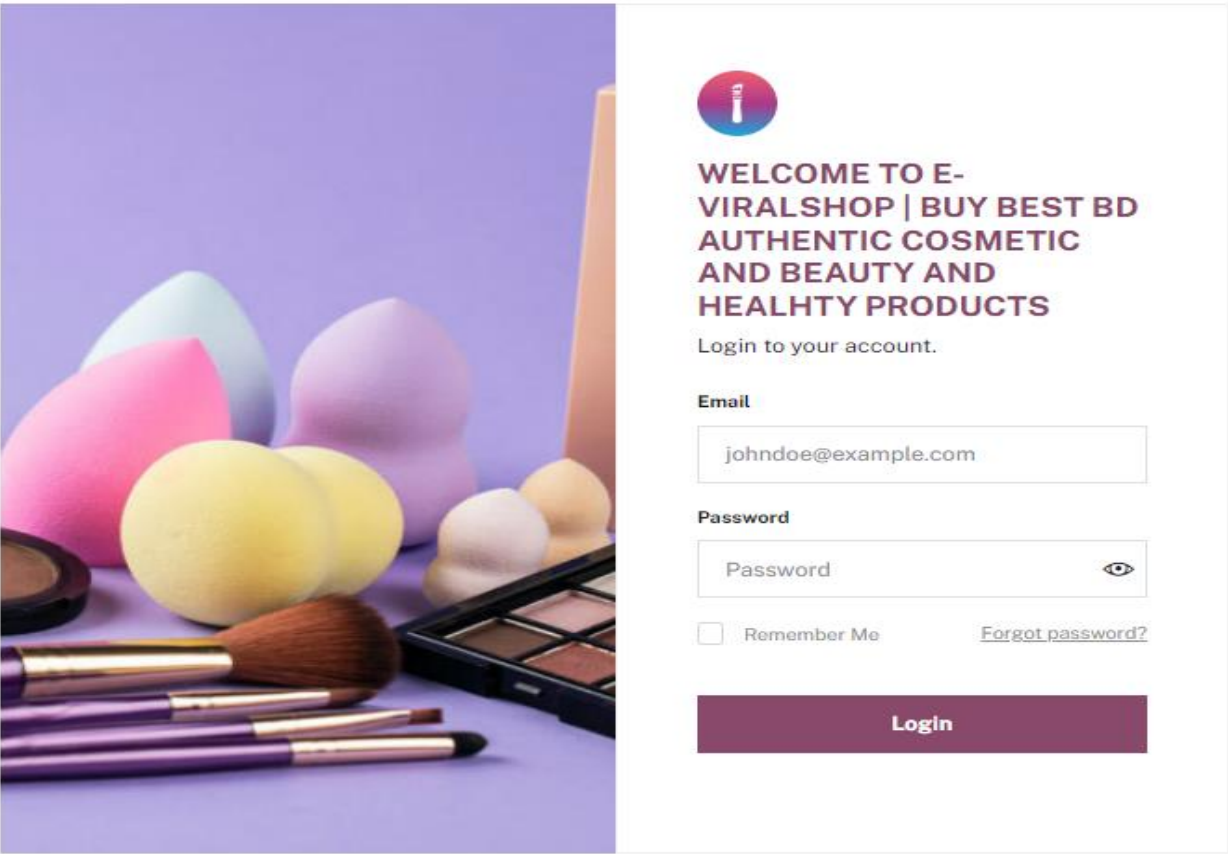


Table	Action	Rows	Type	Collation	Size	Overhead
☐ addons	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb3_unicode_ci	16.0 KiB	-
☐ addresses	★ Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb3_unicode_ci	16.0 KiB	-
☐ app_translations	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb3_unicode_ci	16.0 KiB	-
☐ attributes	★ Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb3_unicode_ci	16.0 KiB	-
☐ attribute_category	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb3_unicode_ci	16.0 KiB	-
☐ attribute_translations	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb3_unicode_ci	16.0 KiB	-
☐ attribute_values	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb3_unicode_ci	16.0 KiB	-
☐ blogs	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb3_unicode_ci	16.0 KiB	-
☐ blog_categories	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb3_unicode_ci	16.0 KiB	-
☐ brands	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb3_unicode_ci	16.0 KiB	-
☐ brand_translations	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb3_unicode_ci	16.0 KiB	-
☐ business_settings	★ Browse Structure Search Insert Empty Drop	187	InnoDB	utf8mb3_unicode_ci	80.0 KiB	-
☐ carriers	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
☐ carrier_ranges	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb3_unicode_ci	16.0 KiB	-
☐ carrier_range_prices	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb3_unicode_ci	16.0 KiB	-
☐ carts	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb3_unicode_ci	16.0 KiB	-
☐ categories	★ Browse Structure Search Insert Empty Drop	7	InnoDB	utf8mb3_unicode_ci	32.0 KiB	-
☐ category_translations	★ Browse Structure Search Insert Empty Drop	7	InnoDB	utf8mb3_unicode_ci	16.0 KiB	-
☐ category_translations	★ Browse Structure Search Insert Empty Drop	47,940	InnoDB	utf8mb3_unicode_ci	3.5 MiB	-

• Figure 2.2 : Database(MYSQL) From Cpanel

2.8: Login page:



Figure

2.3: Login page Design

2.9:Frontend Page for E-viralshop.com:

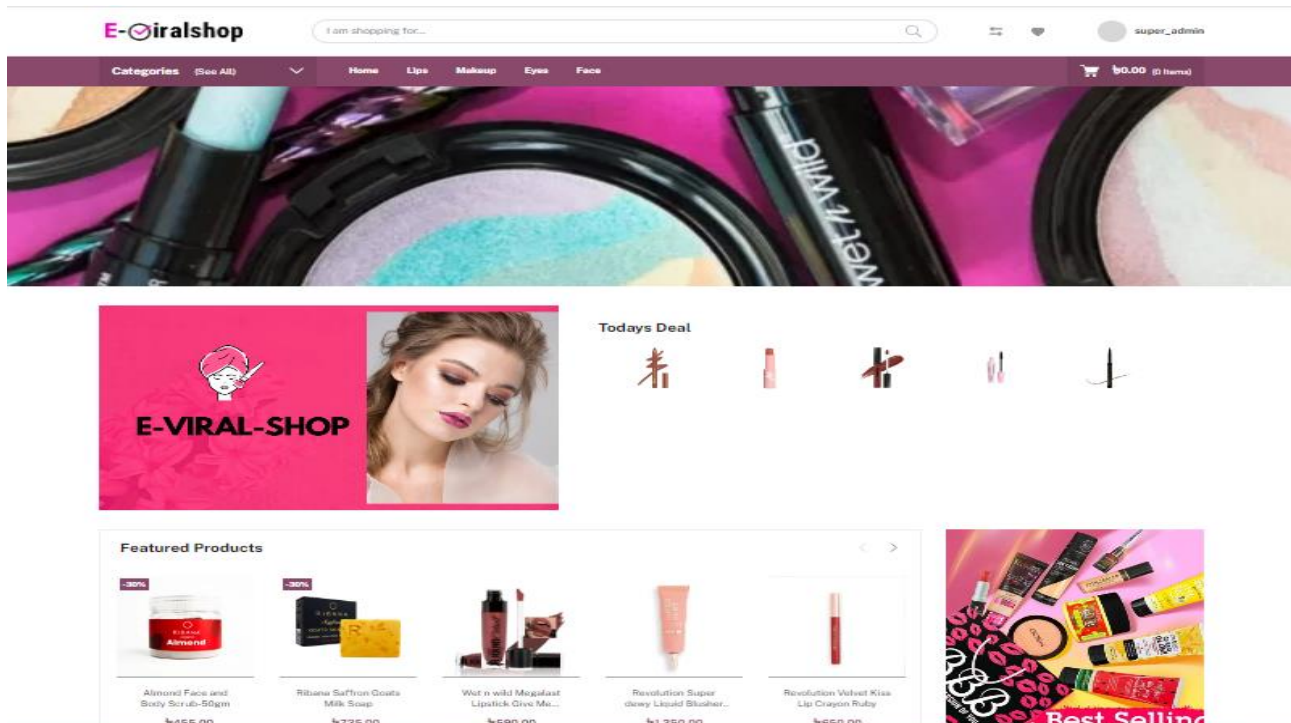


Figure 2.4: Frontend page Design

2.10: Backend Page for E-viralshop.com:

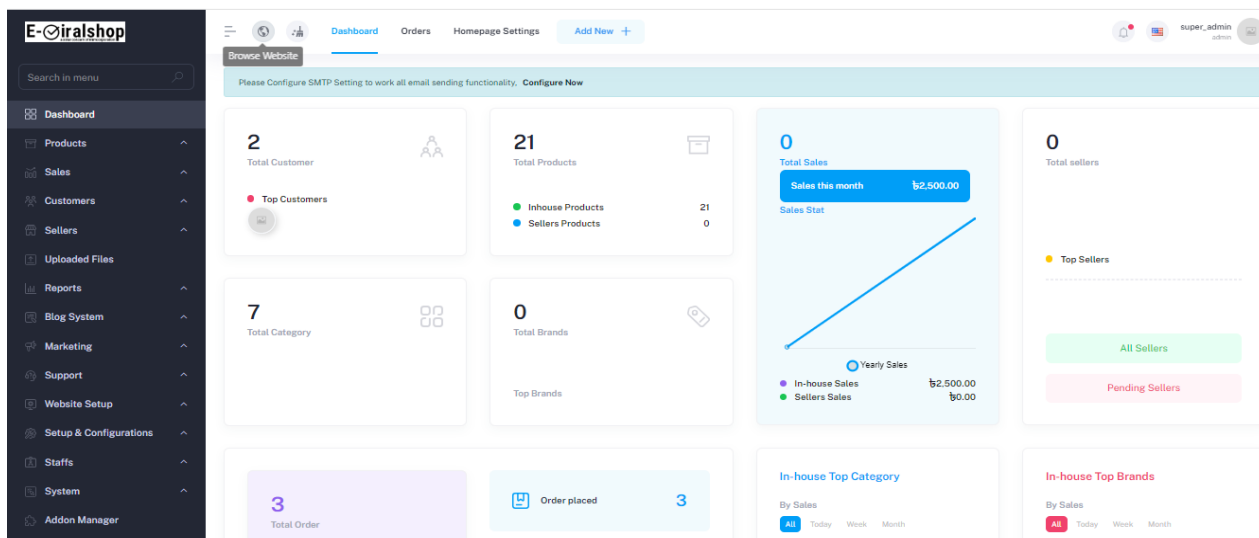


Figure 2.4: Backend page Design

2.11: Single Product page:

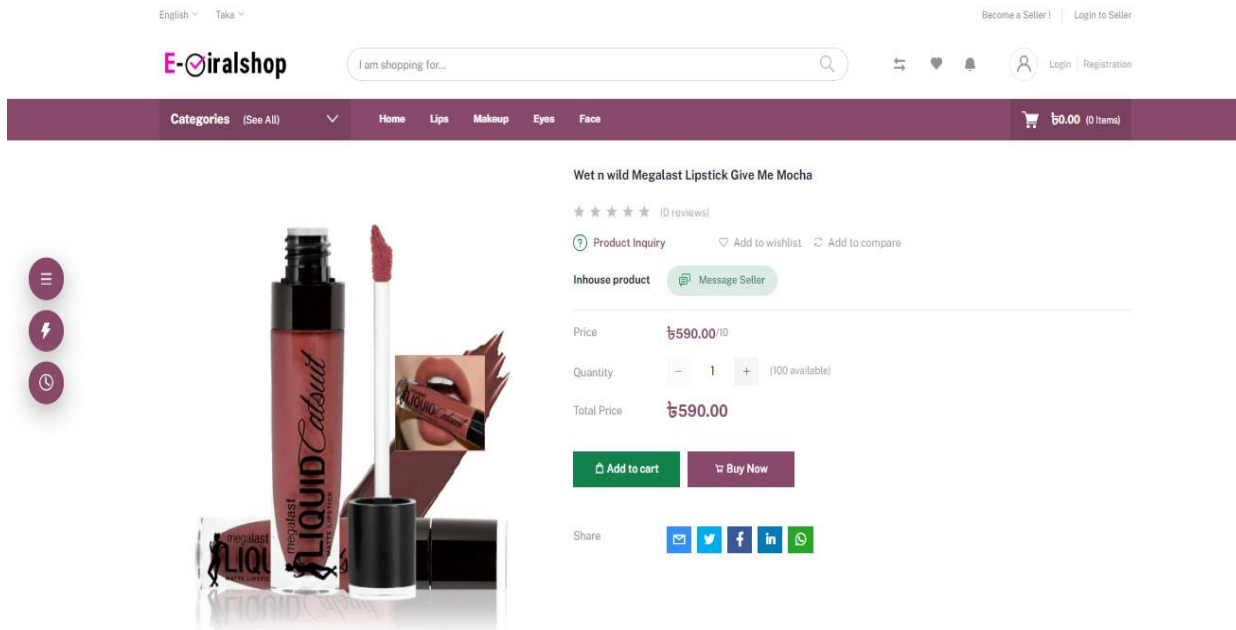


Figure 2.5: Singpe product page Design

2.12: Product Add to Cart Page:

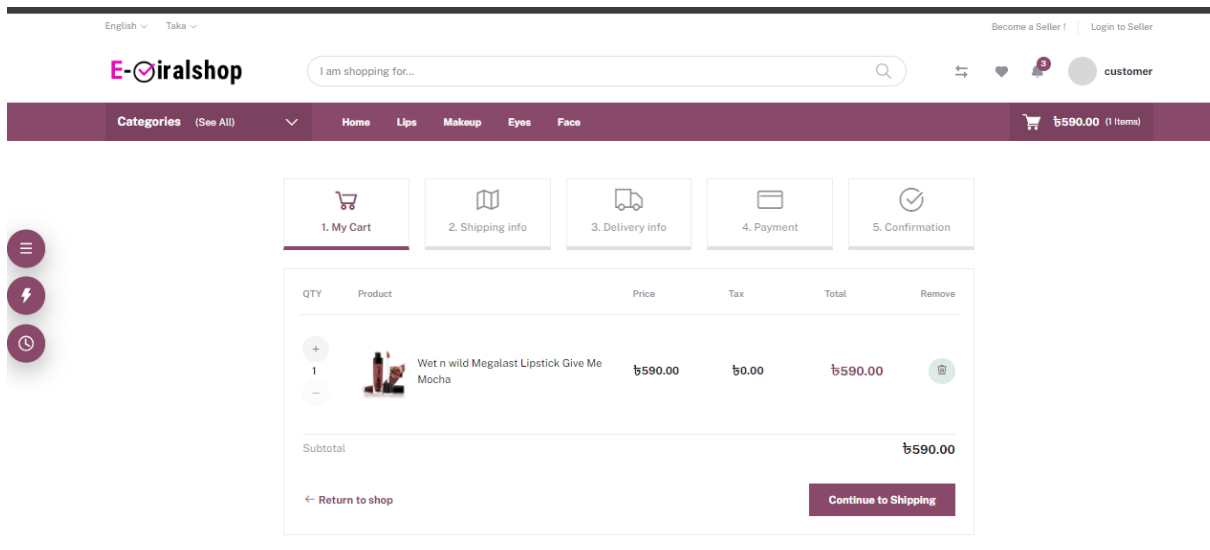


Figure 2.6: Product Add to Cart page Design

2.13: Checkout page:

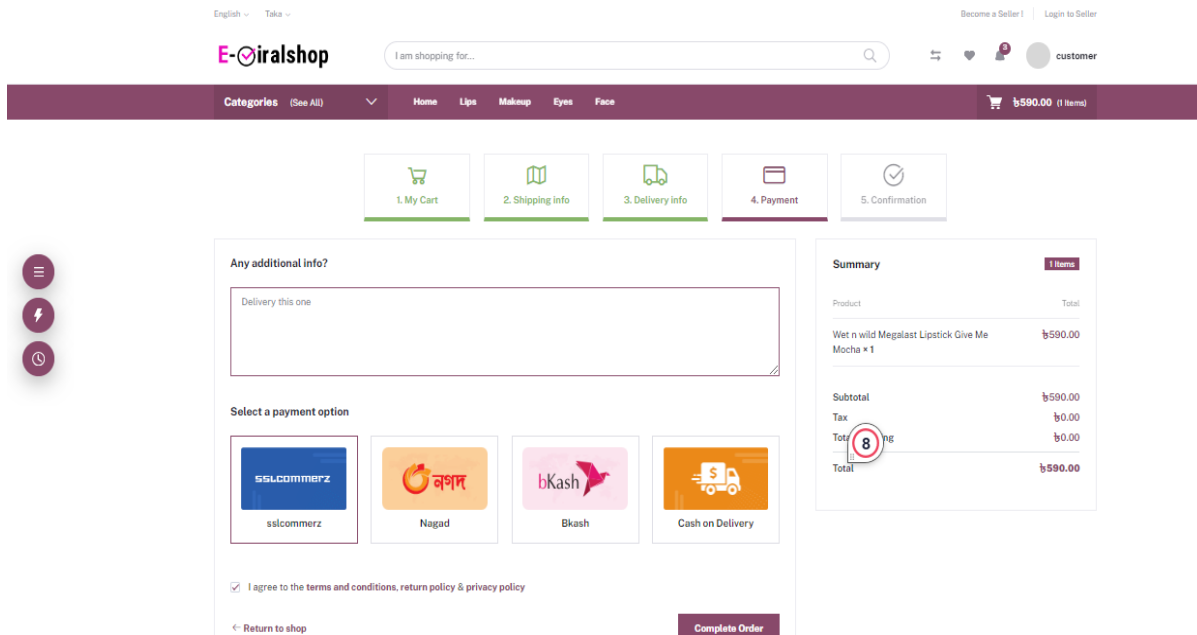


Figure 2.7: Checkout page Design

2.14: Order Confirmed Page:

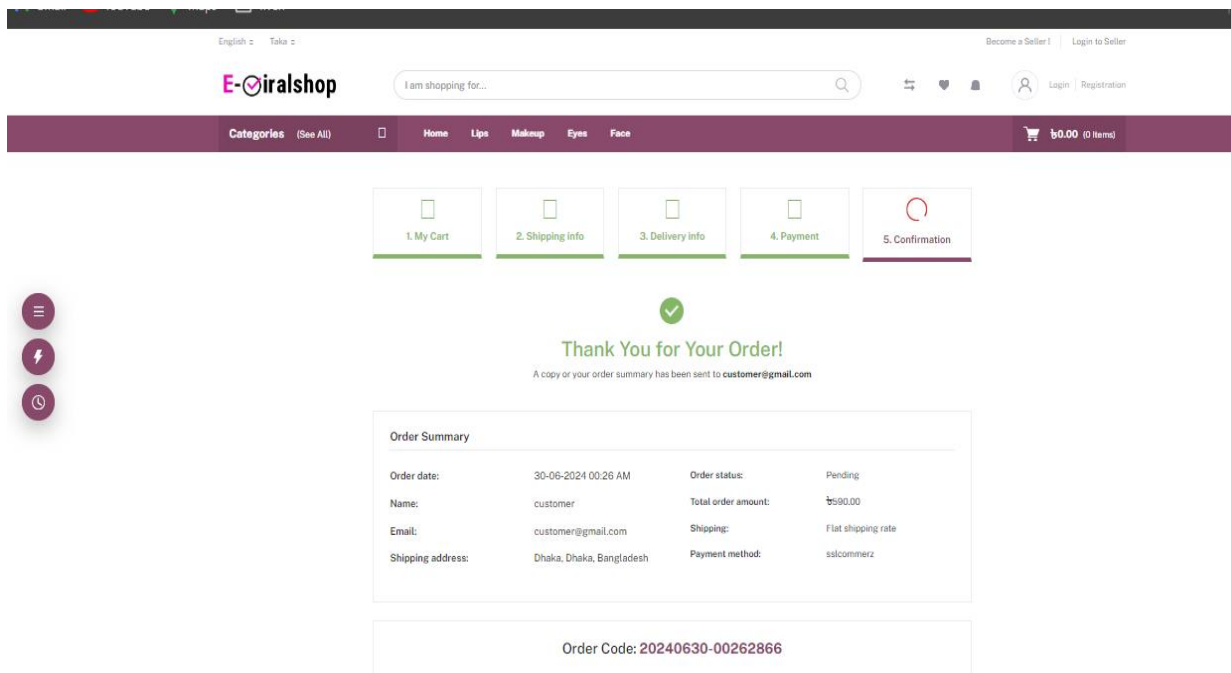


Figure 2.3: Order Confirmed page Design

2.15: Server to Browser Relation:

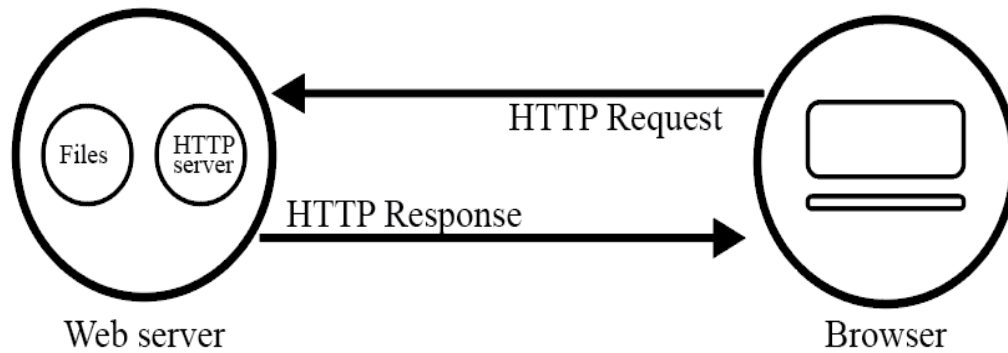


Fig – 2.1 Connect Server to Browser

2.16: PHP Laravel: PHP Laravel is a well-known open-source web application framework for building web applications using PHP scripting language. Laravel boasts of a nice and neat syntax as well as a very neat structure; it is developed to follow the MVC framework, which divides the application into the model, view, and controller sections. Conventionally, this division also increases code readability while making the maintenance and scaling of web applications easier, which is why developers often like to use it. Laravel comes equipped with one of the most efficient templating engines known as Blade, which enables developers to create efficient reusable views. It also has Eloquent ORM (Object-Relational Mapping) which makes database interactions very easy and natural. This results in simplification and optimization of the database operations and that saves time and effort to manage the database queries. This makes working productive and guarantees that the development workflows. One of the key aspects of the framework is the routing system and routing definition and HTTP request handling which is quite flexible in this framework; middleware is also another good feature that filters the HTTP requests conveniently. In this aspect, Laravel provides stock functionalities for the management of security issues such as encrypting, hashing passwords, and protection from threat types like SQL injection and XSS. Furthermore, Laravel has come up with well-developed facilities for authentication and authorization, that meet increased security requirements for users' access. Task Scheduling is also part of the framework, enabling developers to automate and set time for the task to run within the application thus eliminating the need for cron jobs. Other integrated testing tools make it easy to automate tests and hence keep high standards of code quality and reliability of the applications.

2.17: Implementation Requirements

- HTML 5

- CSS3
- Bootstrap 5
- TailwindCSS
- JavaScript
- JQuery
- MySQL
- PHP Laravel
- Git and GitHub
- Seller Register(Multivendorship)
- Domain
- Hosting
- Etc.

CHAPTER 3

METHODOLOGY/ REQUIREMENT ANALYSIS AND DESIGN SPECIFICATION

3.1: Overview

The approach taken for developing the E-viral shop Cosmetics website using PHP Laravel integrates a systematic methodology, thorough requirement analysis, and meticulous design specification. Beginning with a robust research design, the methodology blends qualitative and quantitative methods to uncover deep-seated user preferences and emerging industry trends. Requirement analysis follows suit, meticulously mapping out both functional and non-functional requirements critical to the website's seamless operation and user satisfaction. The design specification phase leverages PHP Laravel's versatile framework to architect a scalable system, optimize database schemas, define modular components, and refine user interfaces for intuitive navigation and

engagement. This holistic approach ensures that the E-viral shop Cosmetics website not only meets stakeholder expectations but also stands out in the competitive online cosmetics market, offering a secure, responsive, and feature-rich platform for customers and administrators alike.

3.2: Summary

The E-viral Shop Cosmetics e-commerce website, built using PHP Laravel, is designed to offer an exceptional online shopping experience tailored specifically for beauty enthusiasts. By leveraging Laravel's powerful features, the platform ensures security, scalability, and a user-friendly interface. The primary goal is to deliver a highly intuitive and personalized shopping experience, presenting a vast array of cosmetics that cater to diverse customer needs and preferences. Emphasizing a user-centric design, the website aims for seamless navigation and engaging interaction. High performance is a core focus, with fast loading times and reliable transaction processing. Comprehensive data collection and input-output analysis underpin the platform's ability to offer personalized recommendations and efficient inventory management. Strategic project management ensures timely development and deployment, while thorough financial analysis guarantees the website's economic viability and sustainable growth. Overall, E-viralShop Cosmetics is poised to stand out in the competitive online beauty market, offering a robust, secure, and delightful shopping experience for all its users.

3.3: Requirement Analysis and Research E-viralshop

1. Requirement analysis for the E-viralShop Cosmetics website using PHP Laravel is a pivotal phase aimed at defining and prioritizing the functional and non-functional requirements essential for its successful implementation. This process involves comprehensive stakeholder engagement, user research, and industry analysis to gather insights into customer expectations, market trends, and technological capabilities. Key aspects include:
2. Stakeholder engagements
3. Wholesalers and Retailers
4. Market and competitor analysis
5. User research
6. Functional requirements
7. Non-functional requirements
8. Technical support
9. Prioritization and Validation
10. Maintain time.

3.4: Proposed Methodology/System Design: The proposed methodology and system design for the E-viralShop Cosmetics website using PHP Laravel aims to create a robust, scalable, and user-friendly online platform tailored to the needs of cosmetics enthusiasts. This section outlines the structured approach that integrates methodology, requirement analysis, and design specification to ensure the successful development and deployment of the website. E-viral shop basically worked for Best bd authentic cosmetics and beauty and Healthy products in any type of retails and wholesale point.

-Methodology:

1. Research design
2. Research Elicitation/analysis
3. Design Thinking
4. Design Scope
5. Design Backend
6. Design Frontend

-System design:

1. System architecture
2. System design
3. Database design
4. User interface(UI-UX Design)
7. Security measure
8. Performance optimization
9. Testing and quality control

3.5: Data Collection/Input-Output Analysis

Data collection for the E-viralShop Cosmetics e-commerce website using PHP Laravel involves the following:

1. **User Data:**
 - **Registration/Login:** Name, email, password, address, and contact number.
 - **Preferences:** Wishlists, product ratings, reviews, browsing patterns.
 - **Behavioral Data:** Search queries, pages visited, time spent, products viewed/added to cart.
2. **Product Data:**
 - **Catalog Information:** Product names, descriptions, categories, prices, images, stock levels.
 - **Supplier Information:** Supplier details, product availability, delivery schedules.
 - **Sales Data:** Order history, payment methods, and order statuses.
3. **Market and Competitor Data:**
 - **Trend Analysis:** Market trends, consumer behavior.

- **Competitive Benchmarking:** Competitor products, pricing, and marketing strategies.

1. User Inputs:

- **Account Details:** Personal information for registration and login.
- **Product Interactions:** Search queries, product selections, and reviews.
- **Feedback:** Product reviews and ratings.

2. Administrative Inputs:

- **Product Listings:** Adding and updating product information.
- **Inventory Management:** Updating stock levels.
- **Order Management:** Processing orders and tracking statuses.

1. User Outputs:

- **Recommendations:** Personalized product suggestions.
- **Notifications:** Order confirmations, and shipping updates.
- **Account Dashboard:** Access to personal details, order history, and wishlists.

2. Administrative Outputs:

- **Sales Reports:** Revenue, top-selling products, customer demographics.
- **Inventory Reports:** Real-time stock levels, and low-stock alerts.
- **Customer Insights:** Behavioral analysis, preferences, feedback.

3.6: Project Management and Financial Analysis :

-Project Management

1. Planning:

- **Scope Definition:** Set clear objectives and deliverables.
- **Timeline:** Create a detailed schedule with milestones.
- **Resource Allocation:** Assign roles to team members (developers, designers, testers).

2. Development:

- **Agile Methodology:** Use iterative sprints for flexibility.
- **Task Management:** Track tasks with tools like Trello or Jira.
- **Communication:** Maintain regular updates via Slack or Teams.

3. Quality Assurance:

- **Testing:** Perform unit, integration, and user acceptance testing.
- **Feedback:** Collect and implement stakeholder and user feedback.

4. Deployment and Maintenance:

- **Deployment:** Ensure smooth, minimal downtime launch.
- **Maintenance:** Plan for regular updates and optimizations.

-Financial Analysis:

1. Initial Investment:

- **Development Costs:** Hiring developers, designers, and testers.
- **Technology Costs:** Hosting, domain, SSL certificates, third-party services.

2. **Operating Costs:**
 - **Hosting and Maintenance:** Ongoing website costs.
 - **Salaries:** Staff wages for development, support, and marketing.
 - **Marketing:** Continuous efforts to attract and retain customers.
 3. **Revenue Projections:**
 - **Sales Revenue:** Estimate based on market research.
 - **Subscription Fees:** Revenue from premium memberships (if applicable).
 - **Advertising Income:** Earnings from ads and affiliate marketing.
 4. **Break-Even Analysis:**
 - **Fixed Costs:** Summarize salaries, rent, utilities.
 - **Variable Costs:** Identify marketing and transaction fees.
 - **Break-Even Point:** Calculate where revenue equals costs.
 5. **Profitability:**
 - **Gross Margin:** Revenue minus cost of goods sold (COGS).
 - **Net Profit:** Gross margin minus operating expense
- **Sales Forecast:**
 - Project sales numbers employing historical data, industry trends, and market research.
 - **Expense Forecast:**
 - Estimate future expenses, including fixed and variable costs. Regularly review and adjust these projections to reflect changes in the business environment.
 - **Cash Flow Management:**
 - Monitor cash flow to ensure there are sufficient funds to cover operational expenses. Effective cash flow management is crucial for maintaining business solvency and enabling growth.

CHAPTER 4

CONCLUSION AND DISCUSSION

4.1 Discussion

According to this plan, several notable factors were kept into consideration to improve the user experience during the whole project. The use of a responsive design means that the site runs well across all the different screens, therefore giving the users of the site a similar and more involving experience irrespective of whether they are using a desktop, a tablet, or even a mobile. Another core aspect that was convenient in Laravel was Blade templating which made the development of dynamic and reusable views for unanticipated flexibility with an enhanced and appealing user interface possible. Security was of high importance and Laravel has an inbuilt system of authentication and authorization that helped in improving the security element of the user and data management systems. The use of Eloquent ORM for integrating the application into the database was effective

in managing the product listing, customers' details, and processing of orders. Proper inventory control applied thus can guarantee that stocks are properly managed, and the customers are informed of the status of the products in the store. Recommendations and promotional elements such as banners and codes were incorporated to increase involvement from the users and sales.

Conclusion:

Finally, it can be concluded that throughout this project of creating an E-viralShop Cosmetics e-commerce Website using PHP Laravel, all the goals of designing, developing, and implementing of high high-performance, secure, and customer-focused online shop have been accomplished. To varying degrees of success, the project managed to take advantage of Laravel for the creation of a system that is sustainable and extensible enough for constant expansion as the business itself diversifies. Therefore, due to the orientation on modern design, the protection against various threats, proper storage, and effective interaction with the user, the site is adapted to the needs of the highly competitive e-commerce market. Positive implementation of this project shows that PHP Laravel is capable of creating extensive e-commerce solutions. It highlights the flexibility of the framework to provide a magnificent user experience while sustaining superior security features and accommodating a business's growth requirements of an online store. E-viral shop Cosmetics' Website is now optimally designed to offer the best shopping experience, retain loyal customers and boost the business.

4.2 Works and Maintains for Development Process in the Future

Since I made it a Global Cosmetics Industry Purpose project, I will be able to implement it in the future with new features and new Variations of Global Brands.

In this system, we will add more features and facilities. To make it more user friendly there are many future scopes. The further Extensions are given below:

- Improve User Interface (UI)
- Improve User Experience(UX)
- Bring more Features like Multivendorship, Wholesale Price, Retailship, etc.
- Statement of account and statement of order report
- Add New Global Brands and Blog Post features unique.
- Expense and Cost
- Support system for Customers and Shipping system with Authentic Delivery pickup.
- Maintain website
- Website analysis trends brands
- Category analysis and mega menu
- Product add and Variations
- Multivendor ship And seller system
- Dropshipping

- Wholesale system
- Retails system
- OTP login system
- And more

REFERENCE

- [1] From frontend masters, Available at << <https://frontendmasters.com/books/front-end-handbook/2019/> [Accessed: Jan. 2, 2024]
- [2] From Bootstrap, Available at << https://www.w3schools.com/bootstrap4/bootstrap_get_started.asp [Accessed: Jan. 2, 2024]
- [3] From JavaScript, Available at << <https://www.w3schools.com/js/DEFAULT.asp> [Accessed: Jan. 5, 2024]
- [4] From MySQL, Available at << <https://www.sattacademy.com/sql/index.php> [Accessed: Jan. 5, 2024]
- [5] From git, Available at << <https://git-scm.com/> >>, [Accessed: Feb. 12, 2024]
- [6] Stack Overflow. Community forum for programming and development queries. Retrieved from <https://stackoverflow.com/> [Accessed: Feb. 12, 2024]
- [7] McKinsey & Company. Beauty Industry Analysis and Insights. Retrieved from Available at <https://www.mckinsey.com/industries/consumer-packaged-goods/our-insights/beauty-industry-analysis-and-insights> [Accessed: Mar. 18, 2024]
- [8] Chaffey, D. (2021). E-commerce Strategy, Technologies, and Applications. Pearson Education.
- [9] Aarong Online. (n.d.). Retrieved from [Aarong](#) [Accessed: Mar. 18, 2024], Moon's Gallery and Lifestyle. (n.d.). Retrieved from [Moon's Gallery](#) [Accessed: Mar. 18, 2024], Daraz Cosmetics and Beauty BD. (n.d.). Retrieved from [Daraz](#) [Accessed: Mar. 18, 2024]
- [10] AjkerDeal. (n.d.). Retrieved from [AjkerDeal](#), Shajgoj. (n.d.). Retrieved from [Shajgoj](#), PriyoShop. (n.d.). Retrieved from [PriyoShop](#), Lira Import. (n.d.). Retrieved from [Lira Import](#) [Accessed: Aprl. 15, 2024]
- [11] BDBUDGET. (n.d.). Retrieved from [BDBUDGET](#) [Accessed: Aprl. 15, 2024]
- [12] Nixon, R. (2021). Learning PHP, MySQL & JavaScript: With jQuery, CSS & HTML5. O'Reilly Media
- [13] Bragg, S. M. (2020). Financial Analysis: A Business Decision Guide. Accounting Tools.
- [14] Laravel Framework. (n.d.). Retrieved from [Laravel Documentation](#) [Accessed: May. 10, 2024]
- [15] Agile model Available at : <https://www.geeksforgeeks.org/agile-model-in-designing-system> [Accessed: May.10, 2024]

ORIGINALITY REPORT

14

%

SIMILARITY INDEX

13%

INTERNET SOURCES

1%

PUBLICATIONS

9%

STUDENT PAPERS

PRIMARY SOURCES

dspace.daffodilvarsity.edu.bd:8080

Internet Source

10%

1

2%

[Submitted to Daffodil International University](#)

Student Paper

<1%

2

<1%

[Submitted to George Bush High School](#)

Student Paper

<1%

3

<1%

123dok.com

Internet Source

<1%

4

<1%

uwe-repository.worktribe.com

Internet Source

<1%

5

www.scitepress.org

Internet Source

6

[Submitted to Coker University](#)

Student Paper

7

www.investopedia.com

Internet Source

8

fastercapital.com

Internet Source

9

10	www.coursehero.com Internet Source	<1%
11	www.exzilla.com Internet Source	<1%
12	www.geeksforgeeks.org Internet Source	<1%
13	doczz.biz.tr Internet Source	
14	Stanislav Culaclii, Brian Kim, Yi-Kai Lo, Lin Li, Wentai Liu. "Online Artifact Cancelation in Same-Electrode Neural Stimulation and Recording Using a Combined Hardware and Software Architecture", IEEE Transactions on Biomedical Circuits and Systems, 2018 Publication	

Exclude quotes Off

Exclude bibliography Off

Exclude matches

Off