

Internship on Web Design and Development

By

**Md. Shah Waliullah Shanto
213-15-14781**

FINAL YEAR Internship REPORT

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

Supervised by

**Dr. S. M. Aminul Haque
Professor & Associate Head
Department of Computer Science and Engineering
Daffodil International University**

Co-Supervised by

**Dr. Sheak Rashed Haider Noori
Professor & Head
Department of Computer Science and Engineering
Daffodil International University**



**DAFFODIL INTERNATIONAL UNIVERSITY
Dhaka, Bangladesh**

January 13, 2025

APPROVAL

This Project titled “**Internship On Web Design And Development**”, submitted by Name : Md. Shah Waliullah Santo , ID: 213-15-14781 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 **13 January, 2025**.

BOARD OF EXAMINERS



Ms. Nazmun Nessa Moon
Associate Professor
Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

Chairman




Dewan Mamun Raza
Assistant Professor
Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

Internal Examiner



Mr. Abdullah Al Mamun
Lecturer
Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

Internal Examiner



Dr. Md. Manowarul Islam
Associate Professor
Department of Computer Science and Engineering
Jagannath University

External Examiner

DECLARATION

I hereby declare that this internship report has been done by me under the supervision of **Dr. S. M. Aminul Haque**, Professor & Associate 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. S. M. Aminul Haque
Professor & Associate Head
Department of Computer Science and Engineering
Daffodil International University

Co-Supervised by:



Dr. Sheak Rashed Haider Noori
Professor & Head
Department of Computer Science and Engineering
Daffodil International University

Submitted by:



Md. Shah Waliullah Shanto
Student ID: 213-15-14781
Department of Computer Science and Engineering
Daffodil International University

ACKNOWLEDGEMENTS

First and foremost, I would like to sincerely thank Almighty Allah for His wonderful grace, which enabled me to complete the final year internship.

The success of my final year Internship has a contribution of so many people and entities and I would like to show my sincere gratitude to all for helping me complete the **Final Year Design Project(FYDP)** successfully.

Mr. Dr. S. M. Aminul Haque, Professor & Associate Head, Department of CSE at Daffodil International University, has my sincere gratitude. To complete this project, my supervisor has an extensive understanding of and a strong interest in “Web Design”. This effort has been made possible by his unending patience, academic direction, unwavering support, energetic and constant monitoring, constructive criticism, insightful counsel, reading numerous subpar versions, and editing them at every turn.

My deepest thanks go out to **Mr. Md. Sazzadur Ahamed, Assistant Professor, Department of CSE** in Daffodil International University, Dhaka, as well as the other CSE department faculty members, for their kind support and assistance in completing my final year Internship project.

We would like to express our heartfelt gratitude to the Head of the Department of Computer Science and Engineering, for his kind help in finishing our project and also to other faculty members and the staff of the Department of Computer Science and Engineering, Daffodil International University.

I also want to thank my employer **SEOPAGE1 IT Ltd.** For allowing me to work with them as an Intern in Web Design and Development, and to help me learn industrial-level knowledge and so many things that will pave the path to my future adventure of this journey.

We would like to thank our entire course-mates at Daffodil International University, who took part in this discussion while completing the coursework.

Lastly, I must respectfully mention the unwavering support and continuous courage given by my parents, and my family.

ABSTRACT

In this report, I am providing an overview of my experiences and takeaways from my web design and development internship. Using Tailwind CSS, and Vue.js to advance my understanding of HTML, CSS, Javascript, and PHP is my main objective. My goal was to improve my technical proficiency and obtain practical experience by working and assisting on discrete and modular tasks and ongoing projects. During the internship, I helped with web design tasks on different front-end modules of website projects, based on a regular and time-bound project. I worked on bug fix design, the responsiveness of the website UI on different devices and browsers, screen sizes according to the given UI/UX prototype, design optimization for CRO purposes, and speed. This experience has reinforced my foundation for a career in web design and development and given me insightful knowledge about professional procedures. I have also learned many aspects of industrial level of expertise, compliance, and competitiveness in the marketplace. This internship also helped me develop my interpersonal and problem-solving skills by giving me the chance to work cooperatively in a team. The regular input from the mentors helped me pinpoint my areas of weakness and offered pointers on how to adhere to industry standards. I developed a proactive and solution-focused approach as a result of being exposed to real-world problems like resolving complicated bugs and meeting time constraints for projects. In addition, I learned how crucial it is to keep records for the continued viability of a project over the long run. My understanding of technology has been greatly improved by this practical knowledge, which has also equipped me for future ventures in the field of web development. I now have the self-assurance to take on difficult tasks and the commitment to keep improving my knowledge in this ever-evolving subject.

Table of Contents

Acknowledgements	i
Abstract	ii
List of Figures	v
List of Tables	vi
1 Introduction	1
1.1 Introduction	1
1.2 Motivation	1
1.3 Objectives	2
1.4 Methodology	2
1.5 Project Outcome	3
1.6 Organization of the Report	3
2 Organization	4
2.1 About the Organization & its services	4
2.2 Products	4
2.2.1 About the Project	5
2.2.2 Related Projects	5
2.3 Target Group	5
2.4 SWOT Analysis	6
2.4.1 Strength	6
2.4.2 Weakness	6
2.4.3 Opportunities	7
2.4.4 Threats	7
2.5 Organizational Structure and Organism	7
2.6 Challenges	7
3 ACTIVITIES, TASKS AND PROJECT MANAGEMENT	9
3.1 Daily assignments and activities	9
3.1.1 Overview	9
3.1.2 Functional and Nonfunctional Reqsponsibilities	9
3.1.3 Working Procedure	9
3.2 Events and Activities	9
3.3 Sophisticated Tasks of the Project	11
3.4 Languages and Tools Used	11
3.5 Design Requirements	12

4	DESIGN SPECIFICATION	13
4.1	Front-End Design	13
4.2	Back-End Design	13
4.3	Visual Representations	13
5	Competencies and SMART Plan	23
5.1	Competencies Earned	23
5.2	SMART Plan	23
5.2.1	Specific Goal and Plan	23
5.2.2	Measurable Progress	24
5.2.3	Achievable Steps	24
5.2.4	Relevant to Career Goals	24
5.2.5	Time-Bound Objectives	24
5.3	Reflections	24
6	Conclusion	25
6.1	Discussion and Conclusion	25
6.2	Scope for Future Career	25
	References	27

List of Figures

3.1	Working Procedure	10
4.1	Desktop Homepage Hero Section	14
4.2	Mobile Homepage	15
4.3	Fresh Deals Section	16
4.4	Trending Category	16
4.5	Deal of the Dynamic section	16
4.6	Sophisticated Collections section	17
4.7	Recent Drops	17
4.8	Recommended	17
4.9	Handpicked Brands	18
4.10	Product Page Desktop	18
4.11	Product Page mobile	19
4.12	Category page Desktop	20
4.13	Category Page Mobile	21
4.14	Legal Content Page	22

List of Tables

2.1	A few exemplary projects of SEOPAGE1	5
-----	--	---

Chapter 1

Introduction

1.1 Introduction

The internship program in the final year of graduation, plays a vital role as an integral part of the degree completion requirements of the degree in Bachelor of Computer Science and Engineering. It gives the interns to gather knowledge from industry experts and enrich the knowledge base with practical, and real-world experience by directly working on real-life projects. It helps identify the strengths and weaknesses of a graduate student to understand how much fit they will be in the industry and if they can make a difference in the competitive marketplace. It helps realize the workspace environment and culture, professional communication and standard of working procedure, finding out opportunities and pleasure of working with a diverse community of people with different sets of skills, and levels of expertise, teamwork, bonding, and pleasure of working together. I have shown my interest in this field because I had the opportunity to hone my skills in front-end website design and learn directly from industry experts in this field. My major concentration was in the front-end design of websites, especially e-commerce platforms. It has given me the opportunity to work closely with an expert team by collaborating on projects, using modern tools, and technologies of project and productivity management, learn modern aspects of web design methodologies, and best practices. [1]

1.2 Motivation

My long-cherished dream, deliberate aspiration, and desperate intention to build a career path in web design and development have always been a source of motivation in my academic and practical journey. I keep a keen interest in creative, intuitive, modern, and sleek website design that is visually appealing, easy for the users to navigate through, and functional. The opportunity to contribute to a live e-commerce website project as an Intern web designer, motivated me to do my best and apply my knowledge and skills in front-end technologies. By directly working on a real-world project, I aimed to hone my skills, and expertise, learn industry-level knowledge of professional working procedures, work with a team, understand the professional working culture, and gain confidence to face the challenge of my future career path.

1.3 Objectives

1. **Strengthen Practical Knowledge and Skills:** Enhance my practical competence in front-end design with Vue.js, HTML, CSS, and Tailwind CSS.
2. **Academic Knowledge to Use:** Apply the knowledge acquired during Daffodil International University's B.Sc. in CSE degree to close the knowledge gap between academic study and real-world application.
3. **Adapt to Industry Standards:** For web design and development, become familiar with and follow industry-level standards, techniques, and ever-upgrading technologies.
4. **Develop Competitiveness:** Learn how to compete in a real-world, industry-level workplace.
5. **Develop Adaptability:** Acquire the ability to solve problems, pick up new knowledge every day, and adjust to changing conditions in the web design and development sector.
6. **Experience Corporate Culture:** Gain an understanding of workplace dynamics, including teamwork and team-building skills, as well as corporate culture.
7. **Meet Customer Expectations:** Develop the ability to satisfy client needs, adhere to specifications, and provide website designs that both meet and beyond their expectations.
8. **Help Businesses to grow:** Create websites that have the ability to help clients succeed commercially or lead to innovations in their fields.
9. **Improve Problem-Solving Skills:** Gain the capacity to effectively address design and development problems in the real world.
10. **Get Exposure to the corporate industry:** Get a close-up exposure to the corporate industry to establish the career path. [2]

1.4 Methodology

I used a hands-on learning strategy to improve my front-end development abilities during the internship. Using tools like Tailwind CSS and Vue.js, I worked on real-world projects with an emphasis on design problem correction, UI responsiveness, and cross-browser compatibility. I was able to improve my methods and follow industry standards with the support of frequent code reviews and coaching sessions. Effective collaboration and project management were made possible by agile approaches and version control technologies like Git. I contributed to brainstorming sessions, actively participated in team meetings to comprehend project requirements, and adhered to a defined workflow to guarantee timely and high-quality task delivery, all of which helped me to obtain real-world experience and further my career. [3]

1.5 Project Outcome

I gained priceless hands-on experience in front-end programming throughout the internship, which also greatly improved my technical proficiency with HTML, CSS, Tailwind CSS, and Vue.js. I became quite knowledgeable about bug fixes, cross-browser compatibility, and UI responsiveness, and I became more comfortable taking on real-world problems. My capacity to solve problems and adapt was enhanced by exposure to agile workflows and industry standards. I also improved my communication and cooperation abilities by working well with others in a professional setting. I was better prepared for future positions in web development thanks to this experience, which closed the knowledge gap between academia and industry methods. It reaffirmed my belief that I could make a significant contribution to dynamic, high-performing projects.

1.6 Organization of the Report

The report of my internship project is distributed in 6 distinguished chapters:

- **Chapter 1: Overview**

Introduction, Motivations, Objective of Internship, Introduction to the Company, Report Layout.

- **Chapter 2: Organization**

About the organization and its services, Products, Market Research, Organizational structure, and SWOT Analysis.

- **Chapter 3: Working activities**

Daily tasks, responsibilities, activities, and project contributions, including the tools and language used.

- **Chapter 4: Design Specification**

Design modules, layouts, work samples, detours to working areas.

- **Chapter 5: Competencies and SMART Plan**

Skills and experience gained future challenges, career plan.

- **Chapter 6: Conclusion**

Overall experience, evaluation, future plan. .

Chapter 2

Organization

2.1 About the Organization & its services

SEOPAGE1 IT Ltd. Provides a comprehensive range of web services including website design, and development, UI/UX, and progressive web applications development, along with 360 degree digital marketing services including SEO, content writing, social media marketing, etc. With a focus on developing robust, secure, and dynamic websites for various industries and marketplaces, SEOPAGE1 has built so many websites, and web applications, including ERP, CRM systems, and e-commerce websites. Among all the products, and projects, I had the opportunity to work directly on several product modules, especially on an e-commerce website development project, which gave me the opportunity to contribute to its dynamic structure and design.

I had the chance to contribute closely to the project of an e-commerce website named bdonlinekoreancosmeticshop.com which is currently live and running. It's an ecommerce platform that is built and managed by my organization and I had the opportunity to work on its design aspects with the dynamic design team my organization beholds. It provides a seamless shopping experience to Korean cosmetic enthusiasts and therefore the overall design was curated for its visitor's utmost satisfaction. The company's commitment to providing the best quality User experience with an innovative, modern, and sleek design created a motivating environment for learning and growth as well as helped me enrich my own design skills and principles that will help me in my future journey in this field.

2.2 Products

SEOPAGE1 IT Ltd. Has been in the market since 2012 and has been continuously providing a long range of web services therefore it has so many products in the market. Mainly, it's a service provider company and works for its clientele based on the client's requirements. So, it doesn't have so many products that they own but they do it for their clients. Besides doing web development for clients, it has its own ERP and CRM products. SEOPAGE1 has successfully completed the milestone of working on thousands of websites in the past 14 years for clients around the globe. In this tremendous journey of web development, SEOPAGE1 provided web services to thousands of clients and has done it in various market niches and clientele. Aiming to provide the utmost client satisfaction with top-notch quality, SEOPAGE1 has built a dynamic team of highly talented and skilled web enthusiasts who have been an asset to them in this journey. Here's a list of a few projects/products that are created by SEOPAGE1

You can use the following table.

Table 2.1: A few exemplary projects of SEOPAGE1

Projects(s)	URL	Year	Objective	Methodology
ERP Software	https://erp.seopage1.net/	2024	A Comprehensive software for Enterprise Resource Planning	PHP, Laravel, Bootstrap, React.js, MongoDB
Swiss Vans	https://www.swissvans.com/	2023	Electric Vehicle Business company website	PHP, MySQL, HTML, CSS, Javascript
Luxury Property Care	https://luxurypropertycare.com/	2022	Real Estate Business Company website	PHP, MySQL, HTML, CSS, Javascript

2.2.1 About the Project

I had the opportunity to directly and closely contribute and work on a website design project for bdonlinekoreancosmetics.com, which is curated for Korean cosmetic and beauty products enthusiasts. It provides a long range of collections of beauty products that are imported directly from South Korea and marketed in Bangladesh. The business owner is really enthusiastic about the overall design and its usability. So we had to make sure it meets the client's expectations and ensure that the website is really dynamic and user-friendly for the visitors that come to do shopping on the website. Since it provides a variety of products and it's coming in a long-range with a gigantic collection, we needed to make sure everything is presented in a good manner. Our development team paid extra attention to creating a responsive and user-friendly interface, assuring smooth, and effortless navigation on the overall websites. Being a subtle design contributor in this project, I needed to make sure my design blended well and I followed the instructions properly with branding guidelines, color codes, hex codes, UI prototype design that was provided in Figma, and all the instructions from the design team supervisor. I have used HTML, and CSS, for the design aspects and used Tailwind CSS as the design framework with Vue.JS technology. This online platform was meant to be a hub of Korean cosmetic enthusiasts and therefore it has to properly represent its user group.

2.2.2 Related Projects

The backend admin panel of bdonlinekoreancosmetics.com was designed and developed by another team of developers. Hence, I did not partake in the core project of that part. But with the help of my employer/supervisor, I had the chance to look into the design environment and overall structure, terminologies, methods, modules, etc.

2.3 Target Group

The primary focus of the company is to provide user-centric solutions that are catered to and curated for its user's and clients needs. SEOPAGE1 IT Ltd. provides web services to clients from all over the world. Its main target group or customer base comes from The US and The European region. Besides, it provides web services on a national level. Mainly, different industries and business owners are the actual customers for SEOPAGE1. It provides websites and web applications to industry owners and business owners as well as entrepreneurs. Business owners especially need websites to showcase their business

services and mostly they need booking, appointment, and contact features. Industry owners need a portfolio website to showcase their industrial mission, vision, company policy, history, and the range of their business. In cases of web applications, business and industry owners require ERP, and CRM software for their internal organization and Industrial use. SEOPAGE1 also provides an HR management web application so one of its target groups is, HR managing business as well as all the other organizations that have a team of people and need their Human resource management.

Bdonlinekoreancosmeticshop.com is one of the important projects for SEOPAGE1 IT Ltd. That needed extra attention. It has to fulfill the demands of its visitors as well as the business owners. The main target group of this website is:

- Beauty Products enthusiasts who are looking for authentic and imported Korean beauty products.
- Online shoppers tend to buy online and are fond of well-structured and well-navigating e-commerce websites available on the internet.
- Customers who care for every single detail, and require trust to make an online purchase by making a proper assessment of the overall website design.
- People of all ages, genders, and backgrounds don't need to spend time understanding complex navigation and the design needs to be easily understandable.

2.4 SWOT Analysis

Here is a brief demonstration of the Strengths, weaknesses, Opportunities, and threats of this internship on web design and development with SEOPAGE1.

2.4.1 Strength

- SEOPAGE1 IT Ltd. Has a strong manpower of skilled IT enthusiasts, web designers, web developers, industry experts, SEO and content experts, marketing experts who keep deep knowledge in their filed and ready to provide expert level
- Providing services in this field for more than a decade now, that made it a real industry expert who knows all the ways of modern-day web design and development.
- They have a dynamic and learning-friendly environment that offers really a good opportunity for the interns to gather knowledge they cherish.
- Technically sound, and adorned with modern-day requirements of high-end technology and tools.
- Communicative, team-working, and supervised environment for the interns.

2.4.2 Weakness

- Too much workload and rush.
- The physical environment of the office is not up to the mark.
- More workdays than usual.
- Sometimes have to work on holidays to meet deadlines.

2.4.3 Opportunities

- Opportunity to learn from real-life industry experts who have decades of combined experience in the field.
- Directly work on real-life problems of web design industry
- Increasing demand of websites in the market gives us the opportunity to grow our career in this field.
- Salaries and financial benefits are satisfactory
- Opportunity to work permanently.

2.4.4 Threats

- Website maintenance and management is very complex.
- Uncertainty in the marketplace and economic trends.
- Database management is a huge task.
- High competition in the industry of web design and development.
- Security threats and potential breaches of security are a matter of concern as well.

2.5 Organizational Structure and Organism

SEOPAGE1 was built single-handedly by the founder and CEO, Mr. Rajat Chakraborty, back in 2012. Since it has grown to become one of the most successful IT companies in Bangladesh, the organizational structure has grown simultaneously. Currently, it is operating with a single office and headquarters at the same time, situated in the busy area of Adabor, Mohammadpur, in Dhaka. The company follows a team-based organizational structure and comes up with multiple teams separated based on different work roles and responsibilities. The web design and development team is one of the many sophisticated teams at the company. I had the opportunity to work with the design and development team, under the direct supervision of the team manager Mr. Sayedullah Khan. My role as a front-end design intern placed me within a group of experts in the same field who worked closely on the project and instructed me throughout the projects. The team lead and manager always supported us with their kind instruction, and guidance to ensure the success of the project by regularly tracking our assigned tasks' productivity and progress. The company adopted the agile methodology of design and development and the tasks were tracked regularly, with feedback, iterations, improvements, and amendments, to ensure the final product meets the client's expectations.

2.6 Challenges

In the journey of this internship, especially in the working process of this e-commerce website, there were several challenges that I had to face:

I. Adaptation and cooperation in the Agile Workflow: It was challenging to keep up with the team and adapt to the fast and dynamic working procedure of the

company in the agile development method. Maintaining consistency, and coordination between team members, was hard to handle.

II. Design issues: Responsive design throughout all screen sizes, browsers, and devices, was a bit challenging. I had to work on the same things over and over to ensure the layouts and modules didn't break out in different circumstances.

III. Less exposure to the back-end: Being responsible for the front-end design only, I did not have the chance to understand the core working procedure of the website and since the design procedure was based on modules, I needed to ensure that I was on the right direction

IV. Tight deadline: There is always a tight deadline to meet in all parts of the design process and throughout the whole working procedure. Sometimes, it's challenging to meet the deadline as expected.

Chapter 3

ACTIVITIES, TASKS AND PROJECT MANAGEMENT

3.1 Daily assignments and activities

3.1.1 Overview

Being an intern in Web design and development at SEOPAGE1, my working hour was 08:00 AM to 05:00 PM (GMT+06), 6 days a week. Saturday, Monday, Tuesday, and Thursday from the office and Wednesday, and Friday from home. My regular activities evolved around designing new modules of bdonlinekoreancosmetics.com, and any other design-related tasks assigned by my team leader. Following agile methodology, I received discrete and scattered tasks on a routine basis.

3.1.2 Functional and Nonfunctional Responsibilities

- Designing and styling different modules, layouts, and screens by following Figma prototype, using HTML, CSS, Tailwind CSS, and Vue. JS.
- Coordinating with the team for any feedback, amendments, and edits based on feedback and edit requests from the client.
- Quality checking by testing and debugging different CSS codes to perfect the design as per the prototype UI/UX.
- Communicating with the team along with the team leader on a routine basis to report the updates and progress of the project.
- Attending meetings, forum discussions, and learning sessions to get useful instruction, and industry knowledge from the manager, team leader, and other team members. [4]

3.1.3 Working Procedure

3.2 Events and Activities

My journey of this internship provided me with opportunities to attend various team activities that helped me improve my skills, expertise, and experience which will help me in my future career development:

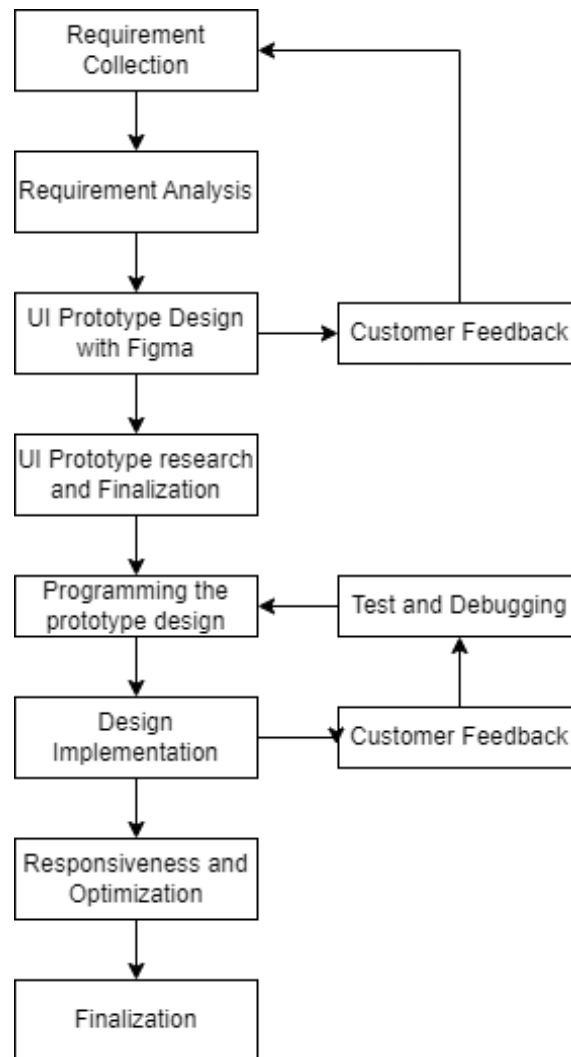


Figure 3.1: Working Procedure

- **Review Meetings:** I have attended review meetings on a regular basis to review the progress and overall working procedure. This meeting also helped distribute tasks among all the team members and discuss all the problems and challenges that everyone was facing.
- **Discussion Sessions:** These discussion sessions helped me a lot to learn things from the expert team leaders, developers, and especially from the UI/UX designers who designed the prototype. Everyone discussed all the problems they were facing and what could be the solution. Plausible resources for required code snippets and code scripts were shared in these discussion sessions.
- **Presentations:** I had to give a presentation on a regular basis to showcase my progress, and especially shed light on any design suggestion for improvement if I had any. And yet, I had so many design suggestions in the overall design improvement process that were accepted by the managers.

3.3 Sophisticated Tasks of the Project

I had to focus on the front-end design of the e-commerce website project. Especially the first impression of the website was so important that it had to be smooth, well-navigating, responsive, and not break any elements or layouts. My primary contribution to bdonlinekoreancosmeticshop.com included:

I. Homepage Design:

- First impression or the Hero section of the landing page or Homepage always has to be good. Creating a visually appealing and inviting header menu, and hero section, with the search bar, and menu bar.
- Promotional pop-up section design
- Floating Cart icon placement globally on the site pages including the homepage.
- Featured categories section design

II. Category Page Design:

- Base layout of category page design
- Product grid design
- Left to right scrolling of the product grid
- CSS-based hover effects design.

III. Content-Based page Design:

- Shipping and Delivery Information Page design
- Terms & Conditions page design
- Refund & Return Policy page design

3.4 Languages and Tools Used

My primary focus in this internship was to learn and implement skills and experience in real-life problems of front-end web design. I have used a range of languages and tools for this purpose.

Basic Concept

- **HTML:** Hypertext Markup Language or HTML is an ideal markup language for creating website pages that allow creating and structuring different sections and layouts, paragraphs, links, etc. using HTML elements such as tags, attributes, and classes. [5]
- **CSS:** Cascading Style Sheet or CSS is the language for designing or styling elements that are coded in HTML language. So, CSS is the second stage of designing a visual element for a webpage. The relationship between HTML and CSS is strongly interconnected and interdependent. HTML is the foundation, and CSS is the plaster and burnishing over it. [6]
- **Tailwind CSS:** It is a CSS framework for rapidly building modern websites. Tailwind is popular now because of its modern design elements. [7]
- **Vue.Js:** It is a Javascript framework that is used for building interactive user interfaces that build on top of standard HTML and CSS. [8]

3.5 Design Requirements

The main objective of our project is to provide the client with the final output based on his requirements. The client provided us with the requirements and a UI/UX prototype was done and approved. We had to design the site based on the prototype UI design. The design has to be responsive on all devices, there should not be any bugs. The website should load fast and properly without breaking any elements, layouts, or section design. It should be easy to navigate through the whole website very easily for visitors from any background or sphere. Inter-page transition should be smooth, transition from one option to another, has to be smooth and seamless without any boring delay or load time. Everything has to be reasonable and inviting for the visitors.

Chapter 4

DESIGN SPECIFICATION

4.1 Front-End Design

The front-end design of bdonlinekoreancosmetics.com is curated to meet the demand of ever-growing modern aspects of website design by ensuring a smooth, user-friendly, navigation to give the visitors an exciting experience of shopping online. My primary responsibilities were to design several modules of the overall website including the homepage, product page, category page, and other content-based pages.

4.2 Back-End Design

My sole focus was on the front-end design of the website while the backend design and development were taken care of by the other team members and developers. The back-end of this website is built using PHP in Laravel framework and the Database is managed and maintained using MongoDB. All the functional parts of the front-end design is operated based on API socketing and channeling with the backend and the Database.

4.3 Visual Representations

Since my core responsibility was to design the front end of the website, I especially had a hand in the design of the following pages:

1. Homepage
2. Product Page
3. Category Page
4. Shipping and Delivery Page
5. Terms & Conditions Page
6. FAQ Page
7. Refund & Return Policy
8. Privacy Policy

Apart from these, I have worked on other design modules that were assigned to me as part of my working responsibilities.

Here are a few visual representations and detours to the website design

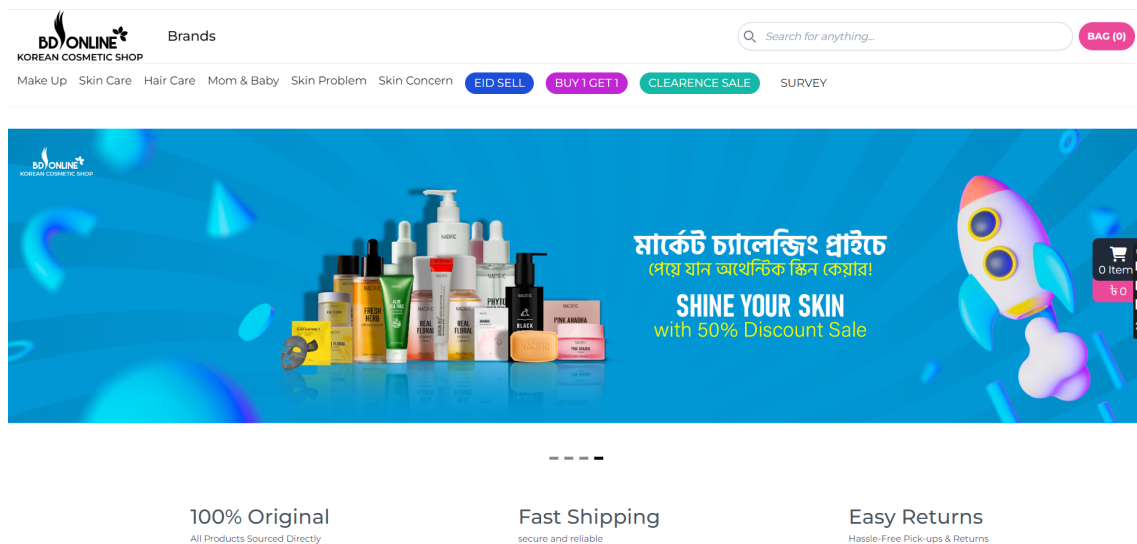


Figure 4.1: Desktop Homepage Hero Section

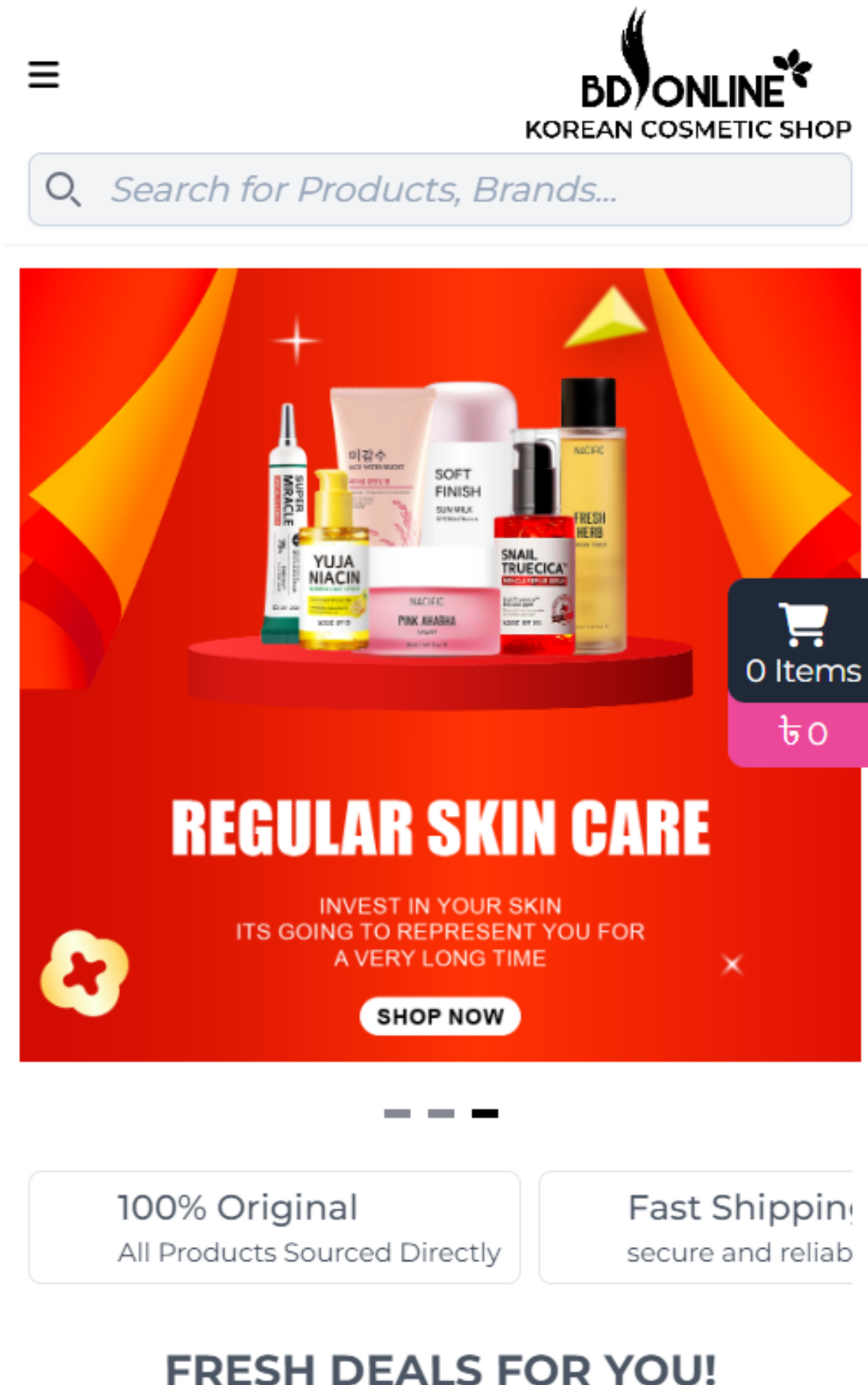


Figure 4.2: Mobile Homepage

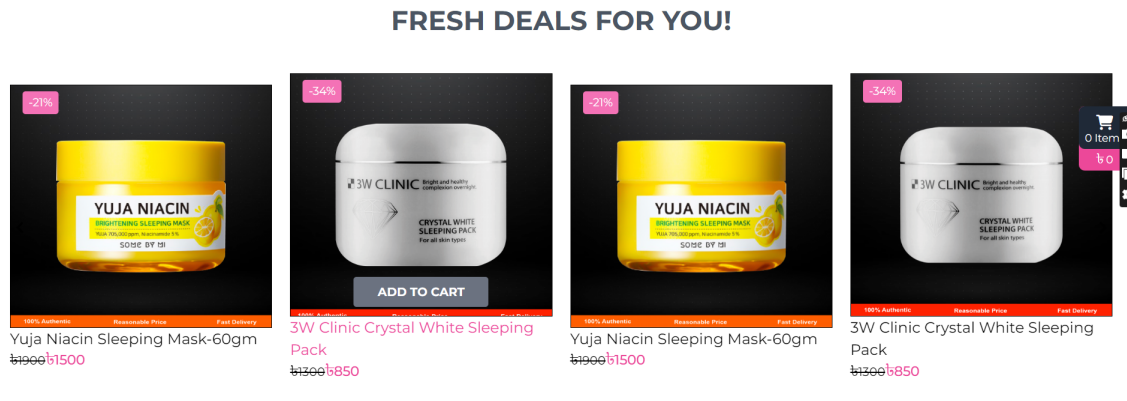


Figure 4.3: Fresh Deals Section

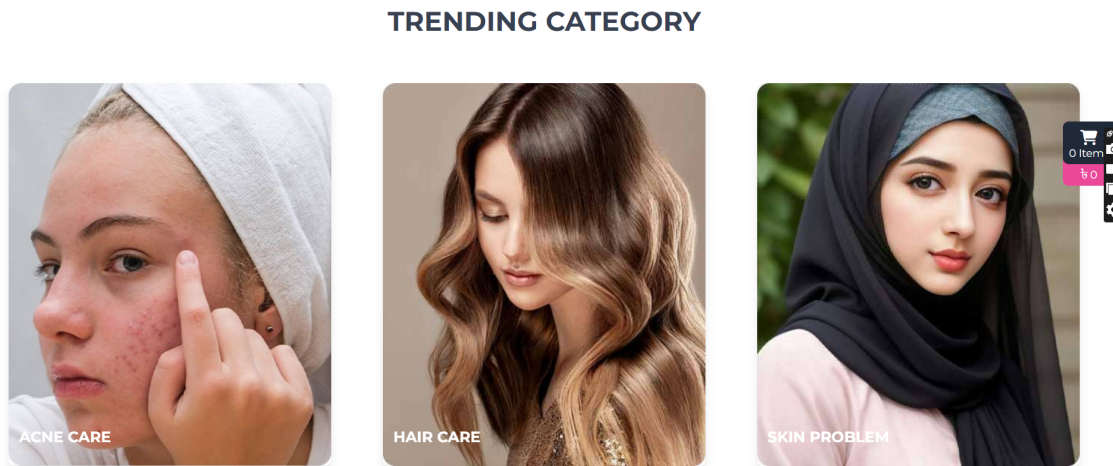


Figure 4.4: Trending Category



Figure 4.5: Deal of the Dynamic section

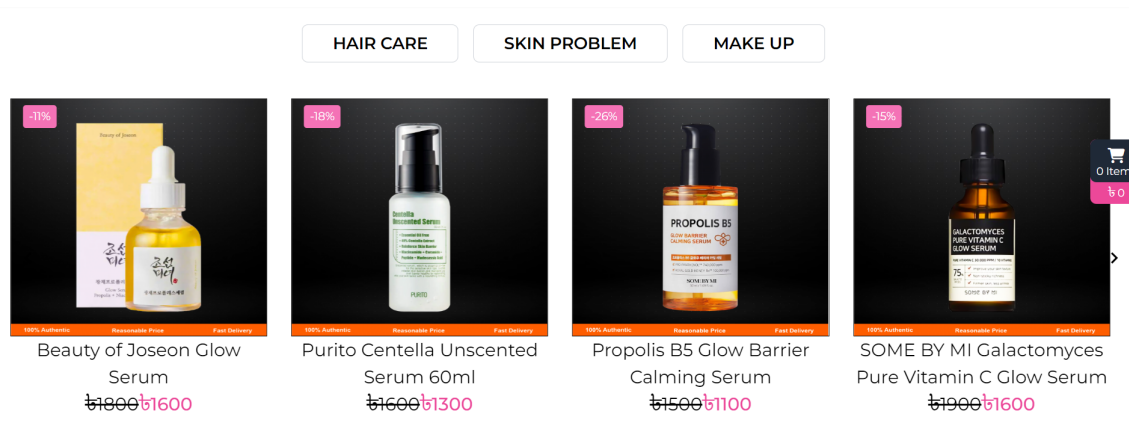


Figure 4.6: Sophisticated Collections section

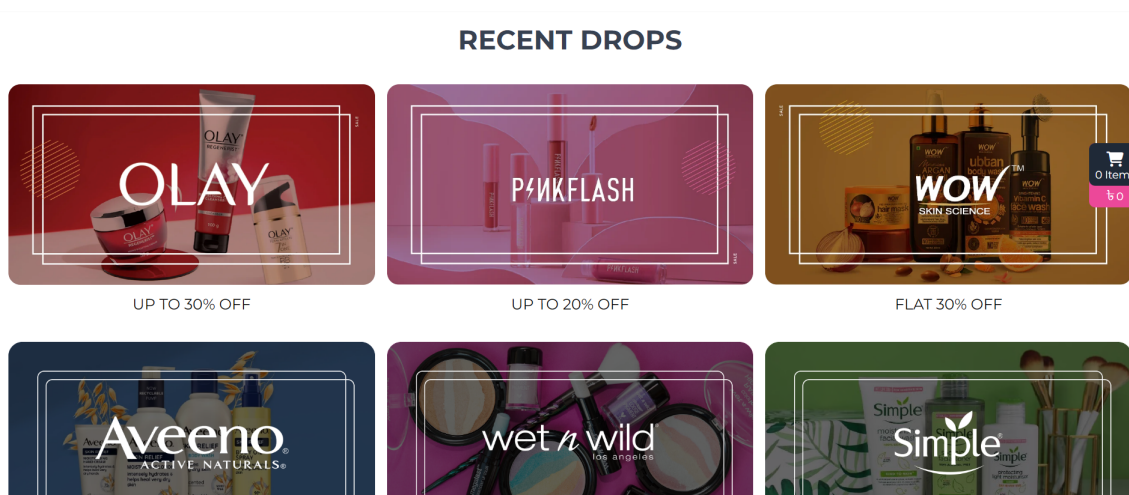


Figure 4.7: Recent Drops

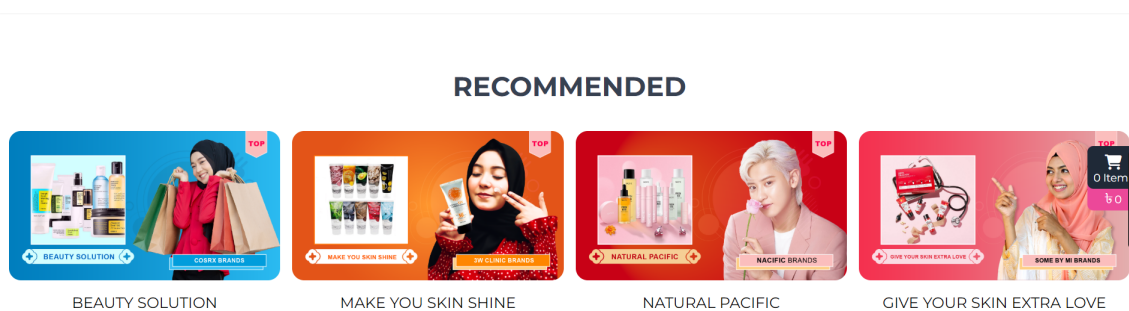


Figure 4.8: Recommended

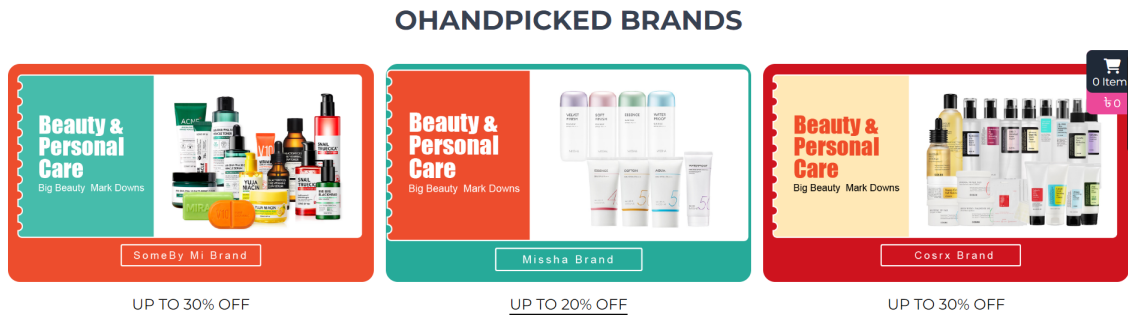


Figure 4.9: Handpicked Brands

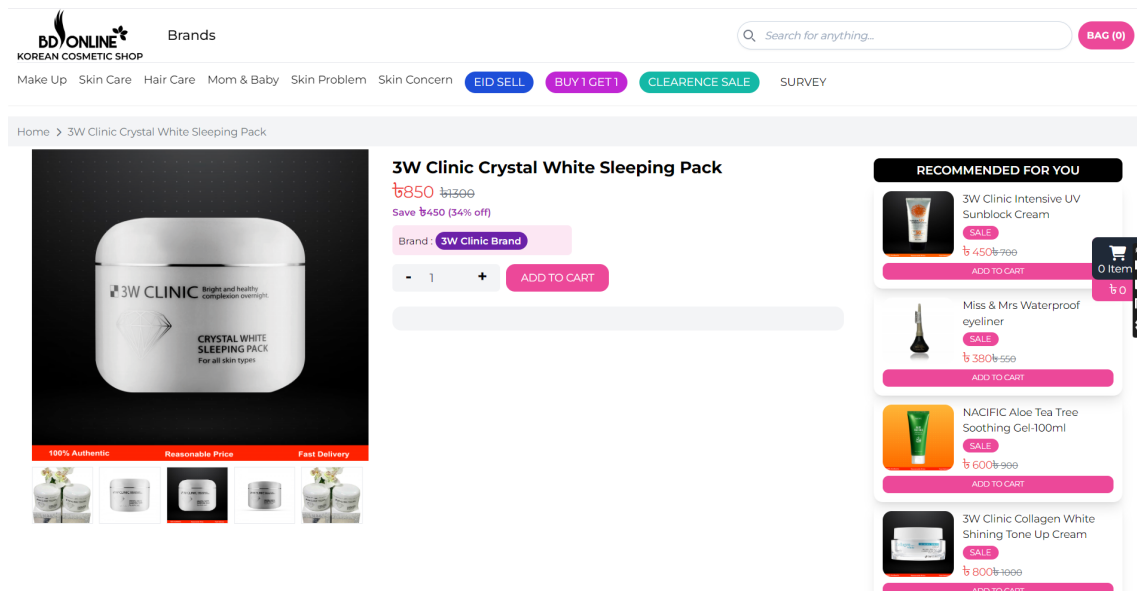


Figure 4.10: Product Page Desktop

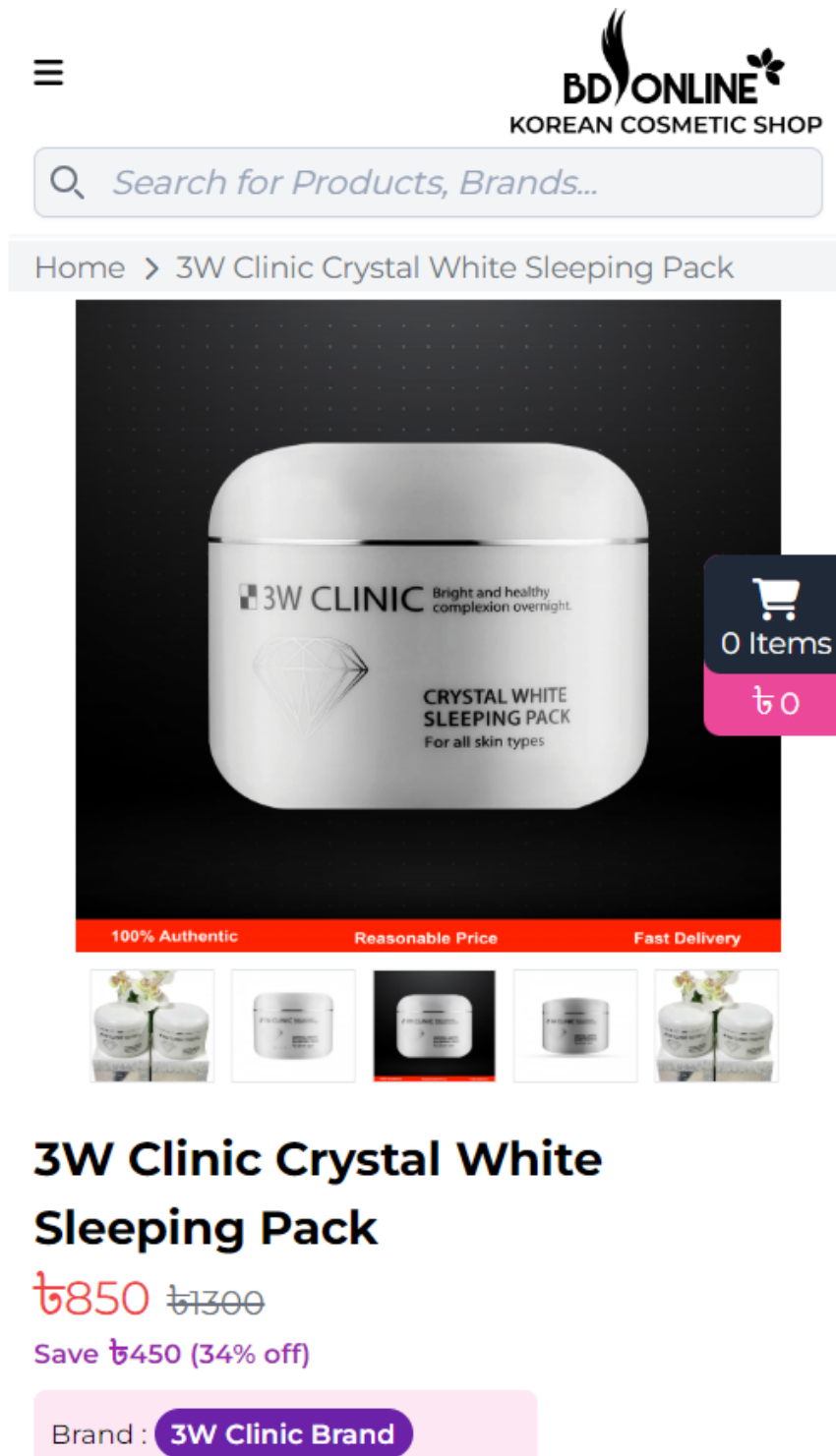


Figure 4.11: Product Page mobile

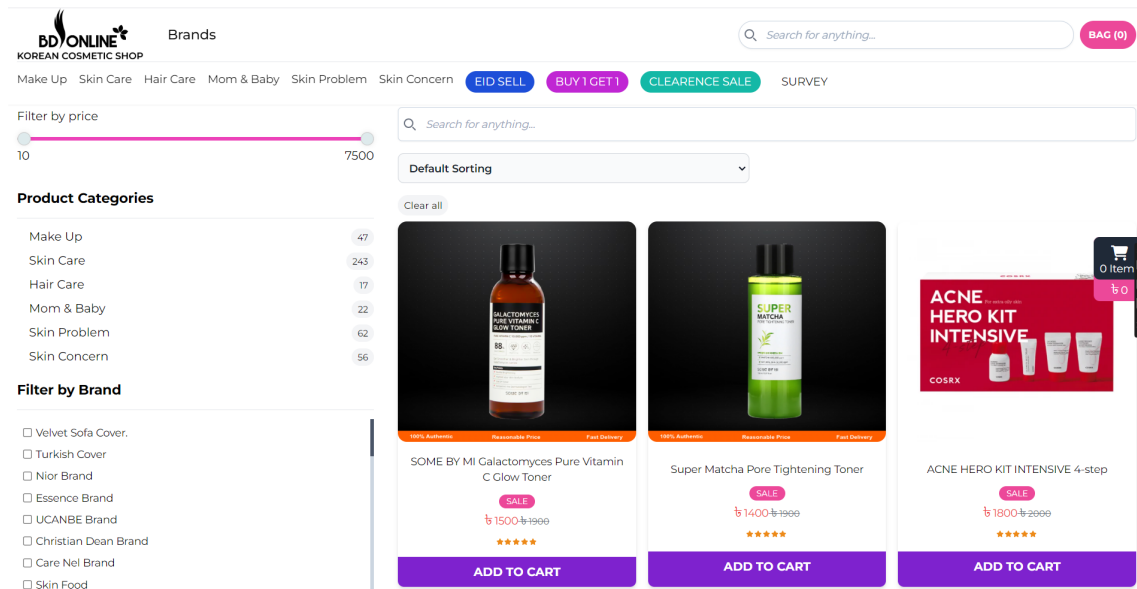


Figure 4.12: Category page Desktop

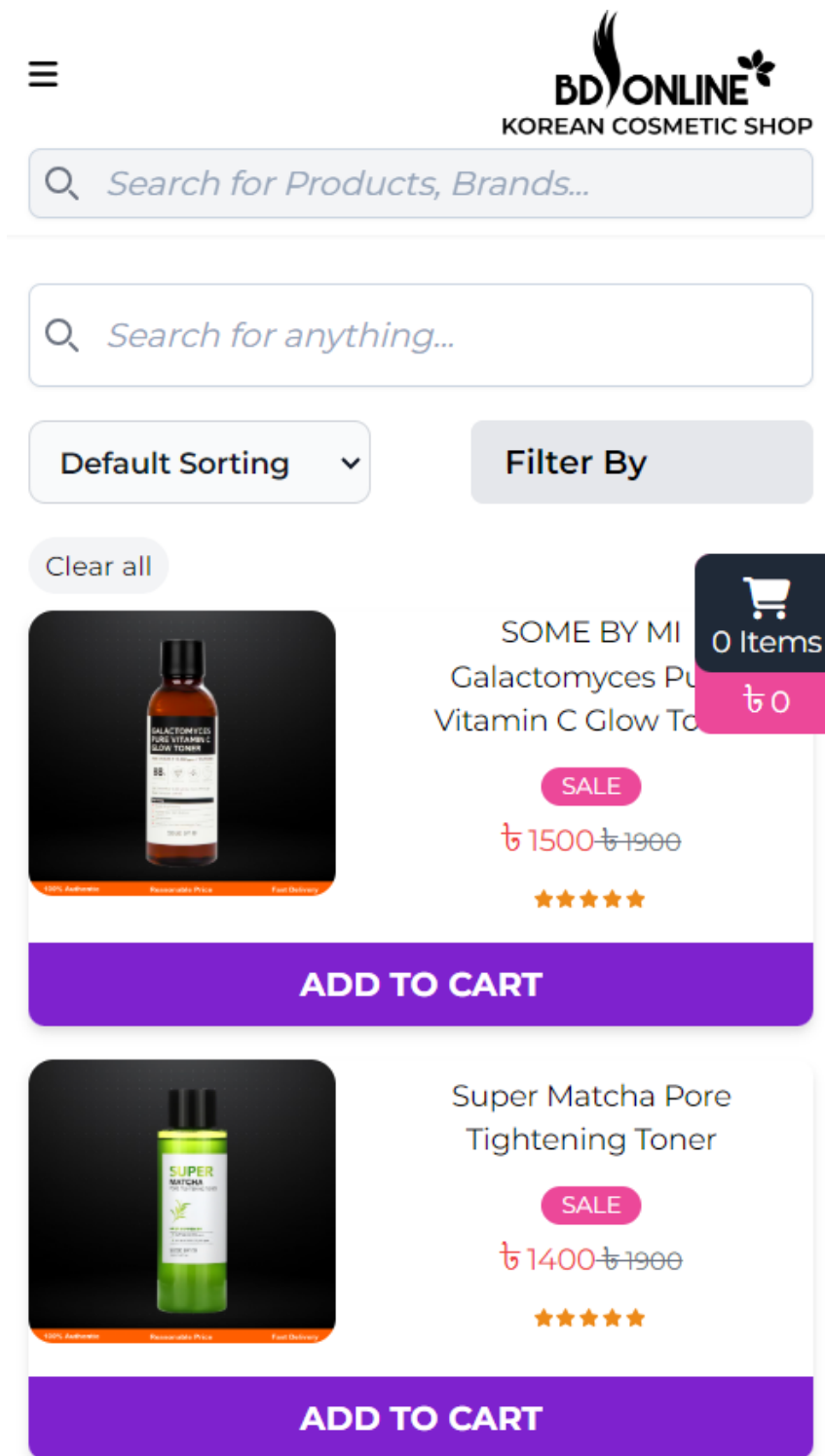


Figure 4.13: Category Page Mobile

BD ONLINE
KOREAN COSMETIC SHOP

Brands

Search for anything...

BAG (0)

Make Up Skin Care Hair Care Mom & Baby Skin Problem Skin Concern EID SELL BUY 1 GET 1 CLEARANCE SALE SURVEY

How does the delivery process work?

- Once our system processes your order, your products are inspected thoroughly to ensure they are in a perfect condition.
- After they pass through the final round of quality check, they are packed and handed over to our trusted delivery partner.
- Our delivery partners then bring the package to you at the earliest possibility. In case, they are unable to reach your provided address or at a suitable time, they will contact you to resolve the issue.
- We maintain a 'closed box delivery' policy. Which is crucial to ensure the authenticity of the products, privacy of the customers and product adulteration or modification prevention.

How are items packaged?

We package our products in cardboard boxes with your invoice wrapped along with it. Each individual product is carefully packaged while fragile items like bottles are safely secured with bubble wrap.

What are the delivery charges?

Inside Dhaka: 49 BDT
Outside Dhaka: 49 BDT

What is the estimated delivery time?

Inside Dhaka: 1-2 days
Outside Dhaka: 3-5 days

However, the delivery might be delayed based on the political, environmental, transportation or any other unavoidable issues which will be notified by our customer relationship team.

ডেলিভারি প্রসেসটি কীভাবে সম্পন্ন হয়ে থাকে?

- আপনার অর্ডারটি প্রসেস করার সময় গতিটি গ্যোডকি অন্তর্ভুক্ত নিশ্চিতভাবে পর্যালোচনা করা হয়।
- শেষ ধাপের কোয়ালিটি চেকের পর গ্যোডকিগুলো প্যাক করে আমাদের ডেলিভারি পার্টনারের কাছে হস্তান্তর করা হয়।
- এরপর ডেলিভারি টিম যত দ্রুত সম্ভব গ্যোডকিগুলো আপনার কাছে পৌঁছে দেয়। যদি কারণ আপনার সাথে যোগাযোগ করতে না পারে কিংবা আপনার বেয়া তিরানা পৌঁছাতে না পারে, এক্ষেত্রে যত দ্রুত সম্ভব ইস্যুটি সমাধানে ডেলিভারি টিম আপনার সাথে যোগাযোগ করবে।

Figure 4.14: Legal Content Page

Chapter 5

Competencies and SMART Plan

5.1 Competencies Earned

This internship helped me learn and practice various things within the range of soft skills and hard skills. I have achieved significant skills and expertise to become an entry-level web design professional in the industry. I have enhanced my proficiencies in design methodology. Before the internship, I had a basic knowledge of web design terminologies, and after the internship, I gained a significant level of expertise in web design terminologies by solving real-life design problems and issues. It helped me significantly grow my skills in both technical and non-technical knowledge base. I have learned better ways of designing with HTML, and CSS along with the Tailwind CSS framework. Discovered the new and modern libraries within Tailwind CSS. Learned to work with dynamic and robust components, elements, libraries, and assets of both Tailwind CSS and Vue. I have also learned industrial best practices and modern-day aspects of design demands. Besides, I have learned soft skills like collaboration and teamwork, problem-solving, professional practices, and corporate culture within an organization. I have adequately improved my ability to communicate with the team members and developed a personal approach to coordinating within the team by doing team effort tasks. I have addressed different design issues, bug fixing, problem-solving, responsive issues, and page-breaking issues, and adapted quickly to face the challenges and expectations of the client. I have also learned to acquire and implement feedback from clients and fulfill their demands by addressing all requirements adamantly. [9]

5.2 SMART Plan

I have followed the SMART framework throughout the journey of my internship. It guided me to achieve the best out of it by properly utilizing my plans and goals. I have vastly followed the SMART (Specific, Measurable, Achievable, Relevant, and Time-bound) methodology throughout my internship [10]

5.2.1 Specific Goal and Plan

- I want to build expertise in full-stack development alongside front-end design by learning back-end technologies like PHP and Laravel.
- Learn more about Database design, management, and operations.

5.2.2 Measurable Progress

- Learn and complete at least one website both back-end and front-end within 6 months
- Achieve at least one certificate in advanced web design and development

5.2.3 Achievable Steps

- Creating a routine for regular time allocation for learning back-end development through tutorials and online resources.
- Join and communicate with expert forums, and real freelance, and voluntary projects for learning from real-world experts.

5.2.4 Relevant to Career Goals

- Enhance specific skills like version control, database management, back-end development, quality control and assurance, bug fixing, problem-solving, etc. that align with my career path.
- Stay attached to technology trends and day-to-day upgradation of modern-day web design and development principles, tools, and technologies and enrich the knowledge base with more languages and stacks like MEAN and MERN.

5.2.5 Time-Bound Objectives

- Achieve proficiency and enhance skill set in back-end technologies within a year.
- Try to join in some role of Junior Web developer in some organization by the end of the internship.

5.3 Reflections

The journey of my whole internship has been a journey of becoming a better and more skilled web designer from the beginning level. It was all about change and updating my skill set and design experience. Since I wanted to pursue a career in web design and development, it has been a good opportunity to pave my path towards that.

- I have learned collaborative teamwork to accomplish assigned tasks
- Managing tasks with tight deadlines and strict instructions made me adapt to being a professional.
- Discovered new methods, techniques, and innovations in the industry.

Chapter 6

Conclusion

6.1 Discussion and Conclusion

My 6-month internship with SEOPAGE1 IT Ltd. Has been a remarkable journey to learn and grow to pursue my professional career in web design and development. It provided me valuable insights and has allowed me to learn directly from real-life projects since I have directly worked on a real project of bdonlinekoreancosmeticshop.com, which is a live and running e-commerce platform. It allowed me to gather real-life technical knowledge along with applying theoretical knowledge that I have acquired through my academic journey. It helped me develop practical skills, and implement best practices into the organization's growth. Working as part of a team, I have learned a collaborative approach to website design and development, teamwork, and team-playing as a vital member of the design team at SEOPAGE1. I have learned new technologies, trends, and techniques of design languages including HTML, CSS, Vue.js, and Tailwind CSS. I have also had the chance to take insights into backend development, Quality assurance, bug fixing, problem-solving, Quality control, version control, responsiveness assurance, API documentation, Integration, UI/UX design principles, and so on.

The experience has not only been an asset to me, but it has also shed light on my career path and made everything very clear on the way to the pursuit of my future career. Now that I can clearly see and know my expertise, I can plan and pace my career objectives, plan my future, and prepare myself for the web design industry I am determined that I can and will make some difference in the industry with my contribution in the upcoming future.

6.2 Scope for Future Career

The knowledge I have learned and the set of skills I have acquired throughout this internship will give me exposure to the industry and therefore I have numerous opportunities to prove myself as a competitive candidate for web design and development professional.

- Since I am equipped to work as a web design expert, I have a lot of doors open to choose from and make a career in the industry of web design and development.
- With the plan of becoming a full-stack developer, I have the opportunity to grow better and bigger and make a breakthrough in my career as well as the industry.
- I have the opportunity to join as a Junior Web Designer at the same organization as my internship.

- I can learn more advanced technologies for both front and back-end and database administration.
- The growing industry of e-commerce platforms, is a big opportunity for me to become an e-commerce expert since I have a good hand in e-commerce website design.
- I have the opportunity to work in the e-commerce and retail industry as a webmaster.
- I can build a comprehensive portfolio enrich my growing skills day by day and showcase my contribution to real-world projects.
- Working directly on the industry level, has given me the opportunity to establish myself as an industry expert, and therefore I can prepare myself for becoming more competent in team leading and managerial roles.

The internship has been the foundation of my career that I am planning for the future and the things I have learned from it will definitely be of work in the journey of the pursuance of me becoming a successful web designer and developer.

References

- [1] Gary M Arsham and Nancy Good. Determination of internship objectives. *Academic Medicine*, 49(5):446–8, 1974.
- [2] Susannah Ahern, Katharine Reid, Meredith Temple-Smith, and Geoffrey J McColl. The effectiveness of the internship in meeting established learning objectives: A qualitative study. *Medical Teacher*, 39(9):936–944, 2017.
- [3] Arturs Rasnacis and Solvita Berzisa. Method for adaptation and implementation of agile project management methodology. *Procedia Computer Science*, 104:43–50, 2017.
- [4] Jatinder Manhas. Initial framework for website design and development. *International Journal of Information Technology*, 9:363–375, 2017.
- [5] Kris Jamsa, Konrad King, and Andy Anderson. *HTML & Web Design*. McGraw-Hill, 2002.
- [6] Craig Grannell. *The essential guide to CSS and HTML web design*. Apress, 2008.
- [7] Hatim Al Salmi. Comparative css frameworks. *Multi-Knowledge Electronic Comprehensive Journal for Education and Science Publications (MECSJ)*, 66, 2023.
- [8] Olga Filipova. *Learning vue. js 2*. Packt Publishing Ltd, 2016.
- [9] Francesca Sgobbi. Web design skills and competencies: an empirical analysis. *Human Systems Management*, 21(2):115–128, 2002.
- [10] May Britt Bjerke and Ralph Renger. Being smart about writing smart objectives. *Evaluation and program planning*, 61:125–127, 2017.

Internship on Web Design and Development

ORIGINALITY REPORT

8% SIMILARITY INDEX	8% INTERNET SOURCES	1% PUBLICATIONS	5% STUDENT PAPERS
-------------------------------	-------------------------------	---------------------------	-----------------------------

PRIMARY SOURCES

1	dspace.daffodilvarsity.edu.bd:8080 Internet Source	4%
2	Submitted to Daffodil International University Student Paper	3%
3	dspace.uiu.ac.bd Internet Source	1%
4	internship.daffodilvarsity.edu.bd Internet Source	1%

Exclude quotes On

Exclude bibliography Off

Exclude matches < 1%