Internship on E-commerce Web Development with Bigcommerce

BY

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

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DAFFODIL INTERNATIONAL UNIVERSITY

DHAKA, BANGLADESH

12 SEPTEMBER 2022

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APPROVAL

This internship titled **"E-commerce Web Development with Bigcommerce"**, submitted by **Istiak Ahmed, ID: 192-15-13068** and 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 12 September 2022.

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DECLARATION

I hereby declare that, this internship has been done by me under the supervision of **Ms. Refath Ara Hossain, Lecturer, Department of CSE** Daffodil International University. I also declare that neither this internship nor any part of this internship has been submitted elsewhere for award of any degree or diploma.

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ACKNOWLEDGEMENT

First, I express my heartiest thanks and gratefulness to almighty God for His divine blessing makes us possible to complete the final year internship successfully.

I really grateful and wish my profound our indebtedness to **Ms. Refath Ara Hossain**, **Lecturer**, Department of CSE Daffodil International University, Dhaka. Deep Knowledge & keen interest of my supervisor in the field of "*E-commerce Web Development*" to carry out this internship. Her endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior drafts and correcting them at all stage have made it possible to complete this internship.

I would like to express my heartiest gratitude to **Dr. Touhid Bhuiyan, Professor, and Head, Department of CSE**, for his kind help to finish my internship and also to other faculty member and the staff of CSE department of Daffodil International University.

I also like to express gratitude to Uploadion Software Solution for giving me the chance to accomplish my internship there. I have developed my knowledge and enhanced experiences by this internship.

I would like to thank our entire course mate in Daffodil International University, who took part in this discuss while completing the course work.

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

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ABSTRACT

The internship program gives a wonderful stage for interns to develop a strong basis to their profession, apprehended the place of work tradition, gain essential work-related revel in, develop relevant limits, and deal with the expense of the opportunity to find permanent employment inside the host business enterprise. So I have completed my internship report on "E-commerce Web Development." This report is a need for the internship application for my B.Sc. E-commerce Web Development using Bigcommerce. BigCommerce is a NASDAQ (National Association of Securities Dealers Automatic Quotation System)-listed eCommerce platform that provides software as a service to retailers. The company's platform includes online store creation, search engine optimization, hosting, and marketing and security for small to enterprise-sized businesses. BigCommerce is a paid SaaS e-commerce platform that helps you create, build, host, and maintain your online store. Currently, the platform hosts more than 52,000 stores. Bigcommerce is the curated the world's leading ecosystem partner. They have B2B, B2C, and Multivendor store systems. They use CSS, Javascript, JSON, and HTML languages to build the brand style, colors, and interactive elements of the site. BigCommerce central goal is to assist dealers with selling more at each phase of development, from little new companies to mid-market organizations, to enormous undertakings. As a main Open SaaS arrangement, BigCommerce enables traders to fabricate, improve and develop their organizations on the web. Basically, we center around being all that trade stage so our clients can zero in on what makes the biggest difference: developing their organizations. BigCommerce is a top web-based business developer with a ton of weight behind it. It came third in general in our web-based business developer research. Noteworthy information reports, a broad stock, and the most underlying elements of any manufacturer make it an amazing powerhouse. It's ideally suited for enormous and quickly developing organizations.

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CHAPTER 1

Introduction

1.1 Introduction

The internship program gives a wonderful stage for interns to develop a strong basis to their profession, apprehended the place of work tradition, gain essential work-related revel in, develop relevant limits, and deal with the expense of the opportunity to find permanent employment inside the big software engineering team. The student can learn about the administrative center culture and gain a fair arrangement of required work, and appreciation. Understudy can build areas of strength with motivation to help their calling. Make an e-commerce web development about a modern e-commerce platform. All along, I Design then, at that point, develop this site with Bigcommerce, which has wonderful structure, and expressive, enjoyable development is the fundamental objective of my internship program. Bigcommece is a paid SaaS e-commerce platform that helps us to make a complete e-commerce website with a hosting and maintenance plan. It's a B2B, B2C, and Multivendor e-commerce service provider. Native B2C and B2B with simultaneous functionality. Enterprise B2C, B2B, multi-storefront and localization Omnichannel & Commerce-as-a-Service. Open APIs, SDKs and data. Composable architecture and headless commerce integrations. Frictionless checkout options. Abandoned cart recovery essentials. 99.99% uptime (including 100% cyber week 7 years running). Robust security: ISO/IEC 27001:2013 & PCI DSS 3.2, Level 1 certified. Actionable insights for data-driven decisions. And more. Its design uses HTML, CSS, JavaScript, Git, JSON, and Bigcommerce.

1.2 Motivation

I initially began to learn web based business advancement for finding, wondering for no specific reason. Then I began to foster an online business webpage with WordPress and understood that having a strong comprehension of front-end advancement truly assisted with modifying my website and make it a whole lot better. From that point onward, I began to foster an energy for web improvement and I needed to be an expert web designer. The most ideal way for me to do this, or possibly to begin, is by learning and building sites for private companies in my space to truly assist them with developing.

1.3 Internship Objectives

BigCommerce central goal is to assist vendors with selling more at each phase of development, from little new companies to mid-market organizations to huge undertakings. We center around being all that internet business stage so our clients can zero in on what makes the biggest difference: developing their organizations. We are similarly energetic about developing our representative's vocations and giving them an unbelievable encounter as we quickly grow across the globe. We are pleased to have been perceived various times for our item and working environment culture. We enable our kin and clients to assemble, improve and develop, so together, we can rethink the web-based business industry.

1.4 Introduction to the Company

Uploadion Software Solution was born out of our desire to commend the web plans and deploy cutting-edge technologies to help brands build their web presence. They took the initiative in 2018 and started offering Web Development Services. Over the years, they have created numerous websites, web applications, and mobile applications along with digital marketing services for small and large businesses across industries and sectors With their software development, services customers/buyers will surely empower their business. In this company, I have the opportunity to be an intern as an E-commerce web developer (Bigcommerce) [1].

1.5 Report Layout

My Internship report is fluctuating in 5 Sections. Section 1: Introduction, Motivations, Internship Objectives, Introductions to the Company, and Report Layout. Section 2: About Introduction to Uploadion Software Solution, Product and Market Situation, Target, and Organizational Structure. Section 3: Daily Task and Activities, Events and Activities, Project Task and Activities, and Challenges. Section 4: Competencies Ed Reflection and section 5: Scope for the Future Career [1].

CHAPTER 2
ORGANIZATION

2.1 About the Company

Uploadion Software Solution was born out of our desire to commend the web plans and deploy cutting-edge technologies to help brands build their web presence. They took the initiative in 2018 and started offering Web Development Services. Over the years, they have created numerous websites, web applications, and mobile applications along with digital marketing services for small and large businesses across industries and sectors. Uploadion Software Solution – A high-tech innovative IT consulting & Software development powerhouse on the road of Information Superhighway structuring international standardized Enterprise Resources Planning (ERP) & IT solutions. Uploadion Software Solution, with its dedicated teams, renders high-quality IT solutions with professional management services of excellence, quality assurance & time turnkey automation. At Uploading, they develop innovative and creative products and services that provide total communication and information solutions. Among a plethora of services, web design and development, tailor-made applications, e-commerce solutions, business-to-business applications, and business-to-client applications are few that they offer. Satisfied clients around the globe bear testimony to the quality of our work. As a leader in technology exploration, Uploadion is committed to exporting quality software worldwide. The general purpose of Uploadion is to develop and promote advanced information technologies for multi-user operations. Uploadion‘s business philosophy is to ensure the highest quality product, total client satisfaction, timely delivery of solutions, and the best quality/price ratio found in the industry. Their emphasis is on offering a high degree of product user-friendliness through a positive, creative, and focused company staff. [1]

2.2 Product and Market Situation

E-commerce business (or electronic trade) is the trading of labor and products on the Internet. It incorporates a wide assortment of information, frameworks, and devices for online purchasers and vendors, including versatile shopping and online installment encryption. Most organizations with an Internet-based presence utilize a web-based store as well as a stage to lead online business promoting and deals exercises and to supervise coordinated factors and satisfaction. Commonly a startup has under 100 workers, but a startup is frequently characterized not by size but rather by productivity. As indicated by Alex Wilhelm, an essayist for TechCrunch, an organization is not generally thought to be a startup after it comes to a $50 million income run rate or is worth more than $500 million, on paper, etc. Independent companies are sole owners, associations, or enterprises that sell items or administrations and get less cash flow, and have fewer workers than enormous worldwide partnerships. The U.S. Private company Administration further characterizes a private venture with regards to work (from 100 to more than 1,500 representatives) or normal yearly receipts more than time (going from $1 million to more than $40 million). B2C, B2B, and Multivendor system [2][3].

2.3 Target of the Group

Uploadion Software Solution creates some expertise in its past information inside the Job commercial center, particularly, the latest patterns inside the gig region, productivity, mechanical advancement, and expectation for a present-day association. Uploadion Software Solution's primary objective or target is to develop skills for an intern like me. Furthermore, from that point forward, they offer a job opportunity as a performance base. Simply reveal the primary goal of this group to make greater in its service [1].

2.4 SWOT Analysis

SWOT analysis is a strategic planning and strategic management technique used to help a person or organization identify Strengths, Weaknesses, Opportunities, and Threats related to business competition or project planning. It is sometimes called situational assessment or situational analysis. In the following figure 2.4.1 shows the SWOT Analysis [8].

Figure 2.4.1: SWOT Analysis

Strength:

- Uploadion Software Solution foundation has the potential to create a difference and differentiate from every other IT company.
- It is one of the best IT companies for internships.
- They are a very advanced IT technical talented company.
- They have the best design and advanced services with new technology.
- Better intern training service compare to other companies.
- Here other employees help out trainees' careers.
- Compliant facilities.

Weakness:

- Their business management team is a little bit harsh.
- Break time is just too much short.
- Every week have two meetings with all the interns which hampers the workflow.
- Sometimes they even work on holidays from home.
- Sometimes their project deadline is very short.

Opportunities:

- Opportunities from emerging technologies and new carrier.
- Increase number of training area.
- They paid a good amount for the work

- Working with many best people of this field.

Threats:

- Managing websites very hard.
- Sometimes websites are under threats from DoS attack.
- Uncertain economic environment.
- Some websites have huge amount of data so those websites are need more time and man power to handle.

2.5 Organizational Structure

An organizational structure is a system that outlines how certain activities are directed in order to achieve the goals of an organization. These activities can include rules, roles, and responsibilities. [9] In the following figure 2.5.1 shows the Organizational structures of Uploadion Software Solution.

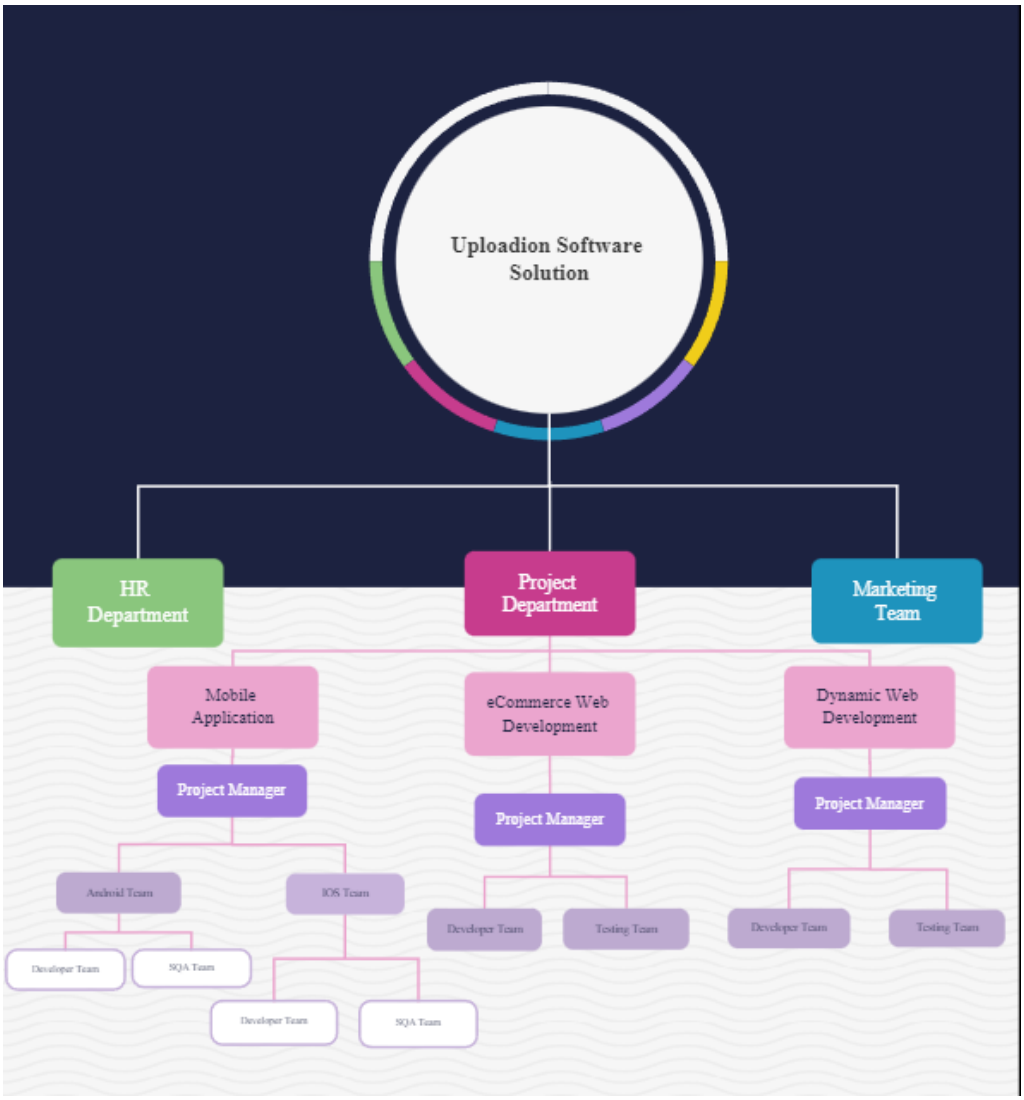


Figure 2.5.1: Organizational structures of Uploadion Software Solution.

CHAPTER 3
TASK, PROJECTS AND ACTIVITIES

3.1 Daily Task and Activities

My internship starts at 08:00 AM (IST) to ends at 04:00 PM (IST) regularly five days per week. Initially I opened with the main web layout design with html 5, CSS 3, and bootstrap 4. One week later I created a responsive website using my basic knowledge about web design. Then I try how to manage products inventory. Then check super admin dashboard on Bigcommerce. Then check how to setup theme on Bigcommerce. Learn how to work payment processing, setup and configure process with PayPal payment getway. Learn how to change and fix bugs on the dashboard. Learn how to setup shipping apps on Bigcommerce backend. After one month later I started working on bigcommerce stencil cli setup with a connection to local server to live server. Then start uploading products and content on live website. After two month I am start building websites with my trainer. Now I know how to create bigcommerce page template, design, and API creation. I am showing some live websites where I am working A to Z. www.subzicart.com, www.santeva.com, www.vigorlabs.com . I learn more important things like **Get to the right data:** interpreting a large dataset, validating the data's accuracy, and ensuring it includes the right cohort of customers and the right variables to conduct analysis. Troubleshoot when data does not make sense or seems incomplete. **Craft your analysis:** Decide "where to start" when analyzing a large dataset. Anchor analysis to a single hypothesis/objective and determine which variables to assess that will answer your hypothesis. **Tell the story:** Learn how to synthesize and cull the most meaningful takeaways from your data. Determine "how to tell the story" to an executive audience. Learn presentation best practices and how to build compelling visuals/charts to bolster the story. That's how all the activities were done during my internship.

3.2 Events and Activities

These Internships assist with gaining the most recent innovation and dialects quickly. It is to help me to make the most insightful among IT occasion chiefs and different exercises with proper date. This learning movement assists me with working on my insight into genuine tasks and set me up for how to make a portfolio and begin once again. It was a difficult time for each venture that I could work on all through my review. These difficulties were following the cutoff time of the day, making uncommon tasks, and acquiring client fulfillment, which guarantees that I needn't bother with any more acclimation to my undertaking. Then, at that point, there are the astonishing seasons of working and learning in an optimal setting for a coordinated effort. It assisted me with fostering my insight, so I could do business as my boss in any sort of work and any organization in this field.

3.3 Project Task and Activities

The main focal point of this internship was to learn e-commerce web development with the “Bigcommerce” for my profession. That is the reason in this internship position most extreme time enjoy this structure. That is the reason I am learning E-Commerce.

Language Used for Bigcommerce Development:

- HTML5 and CSS3 and bootstrap framework for making the structure or Front - End and colorizing the site.
- Bootstrap for making responsive.
- JavaScript for making functions.
- Git for Stencil Cli command.
- V2/V3 API for connecting bigcommerce server and local development server.

Install Bigcommerce Stencil Cli

Step – 01

Required Dependencies [1]

- Git - Run npm install
- Paython 2.7.x - required to build some dependencies
- Node.js 14 and npm – for npm install.

- Visual C++ Build Tools 2015 - required to compile some dependencies on local.

Step – 02

```
npm install -g @bigcommerce/stencil-cli
```

Step – 03

```
Stencil init
```

Step – 04

```
git init
git add -A
git commit -m "initialize project using stencil cli"
```

Step – 05

```
Stencil start
```

Subzicart.com A to Z Project details

Features of SubziCart.com

- All menu items.
- Slider banners.
- Shop by category.
- Products showcase with 3 tabs.
- Brand showcase
- Footer
- Brand base Shopping
- Product details page
- Checkout

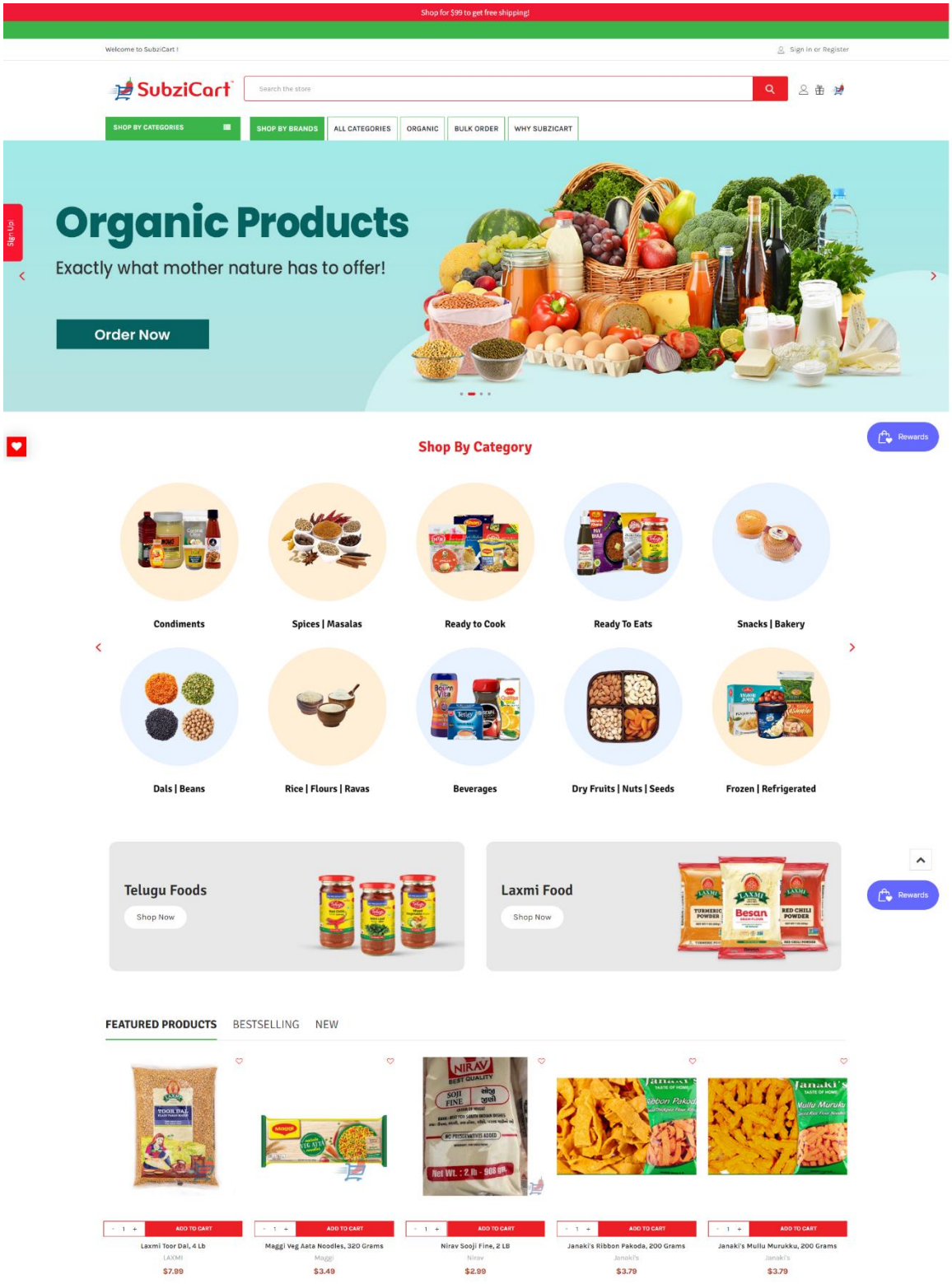


Figure 3.3.1: Home Page View

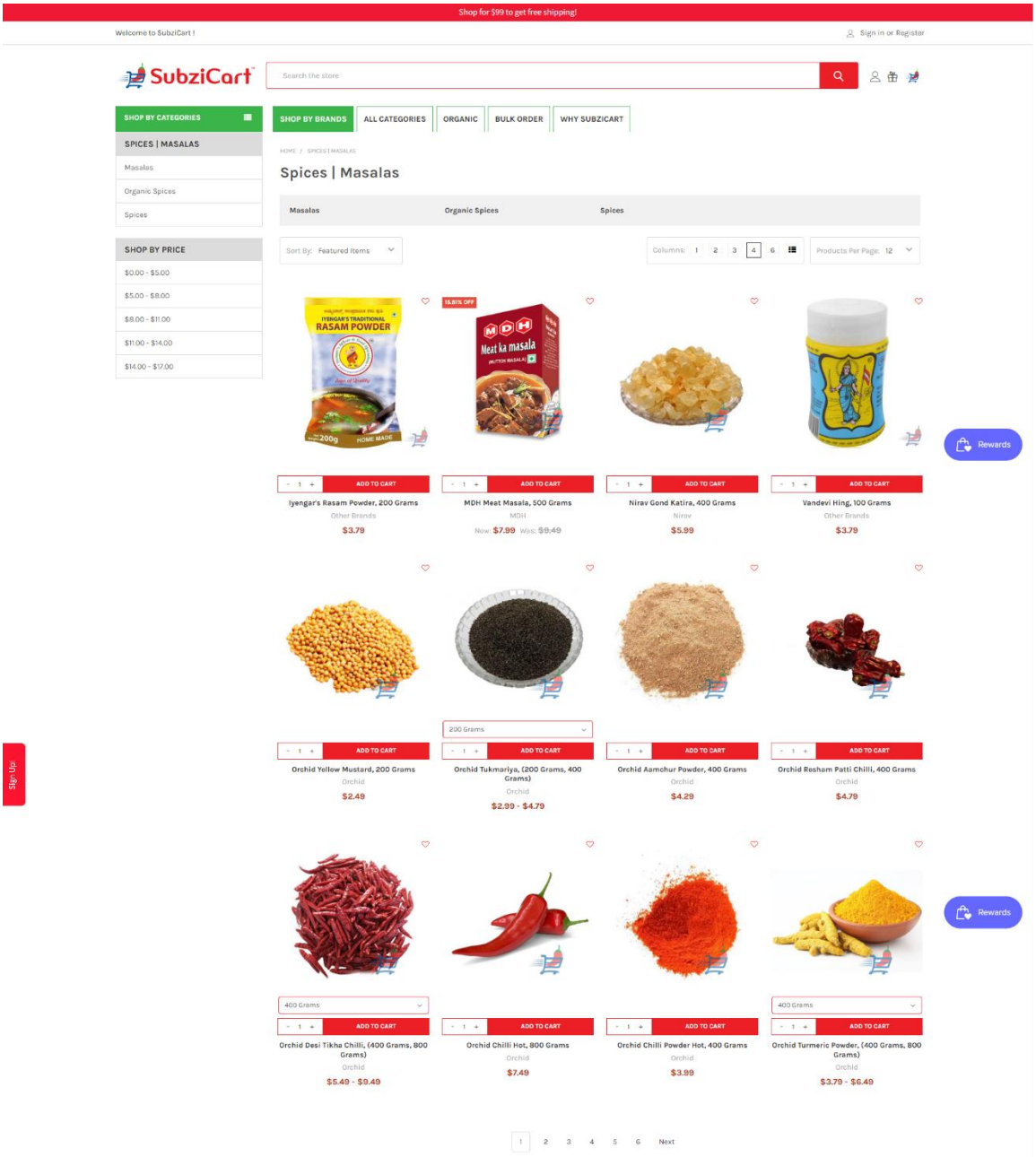


Figure 3.3.2: Category base shop page.

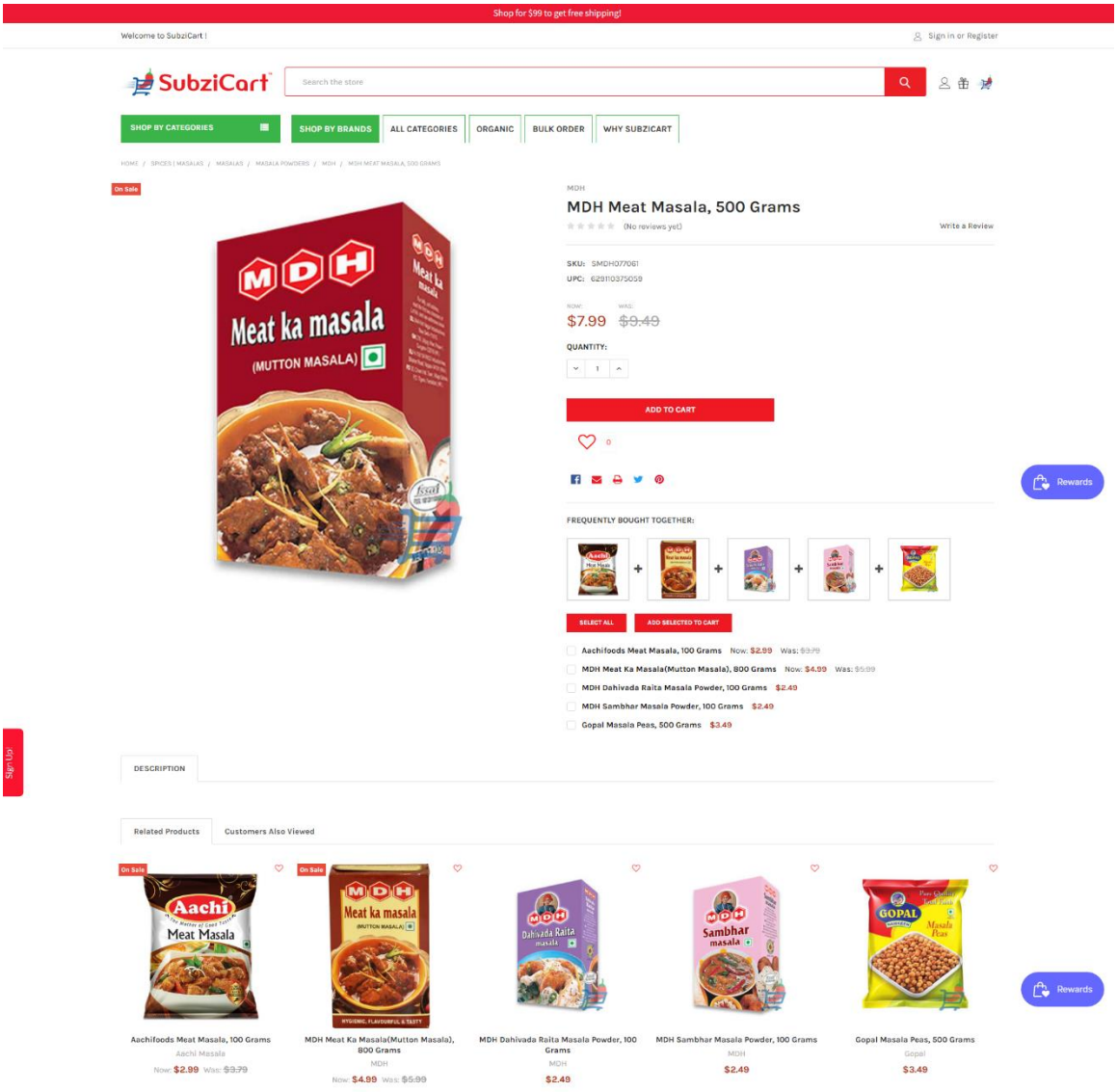


Figure 3.3.3: Product details page

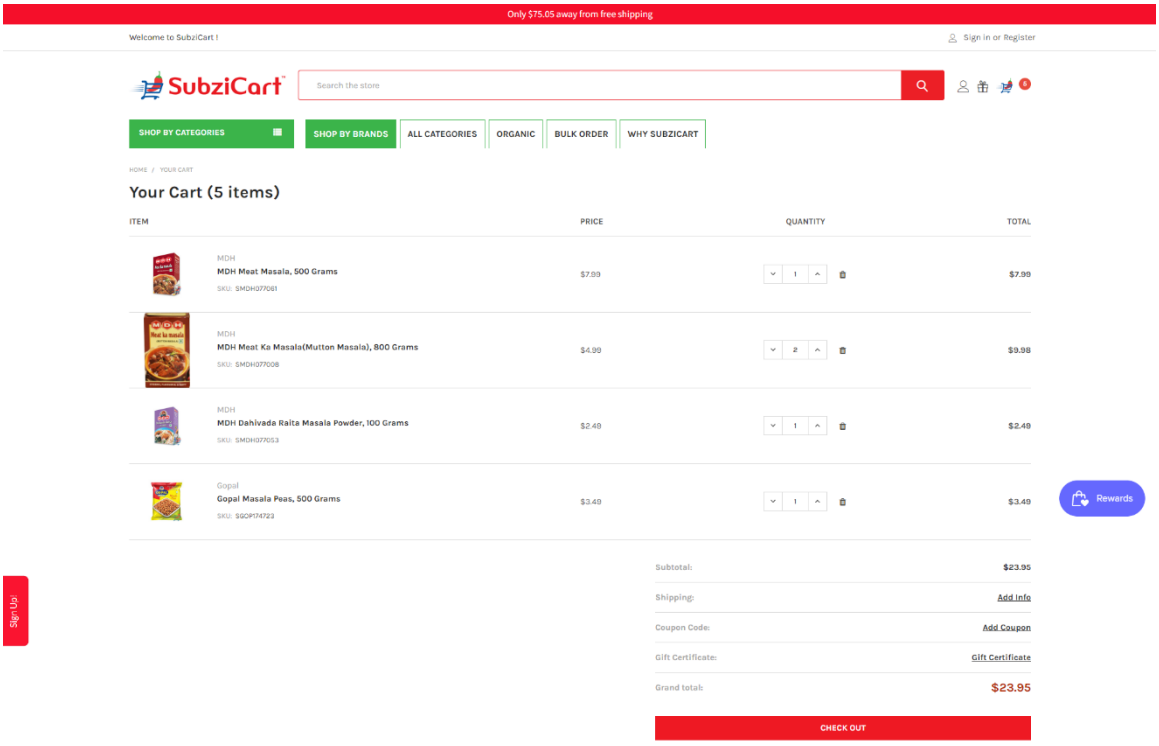


Figure 3.3.4: Cart page

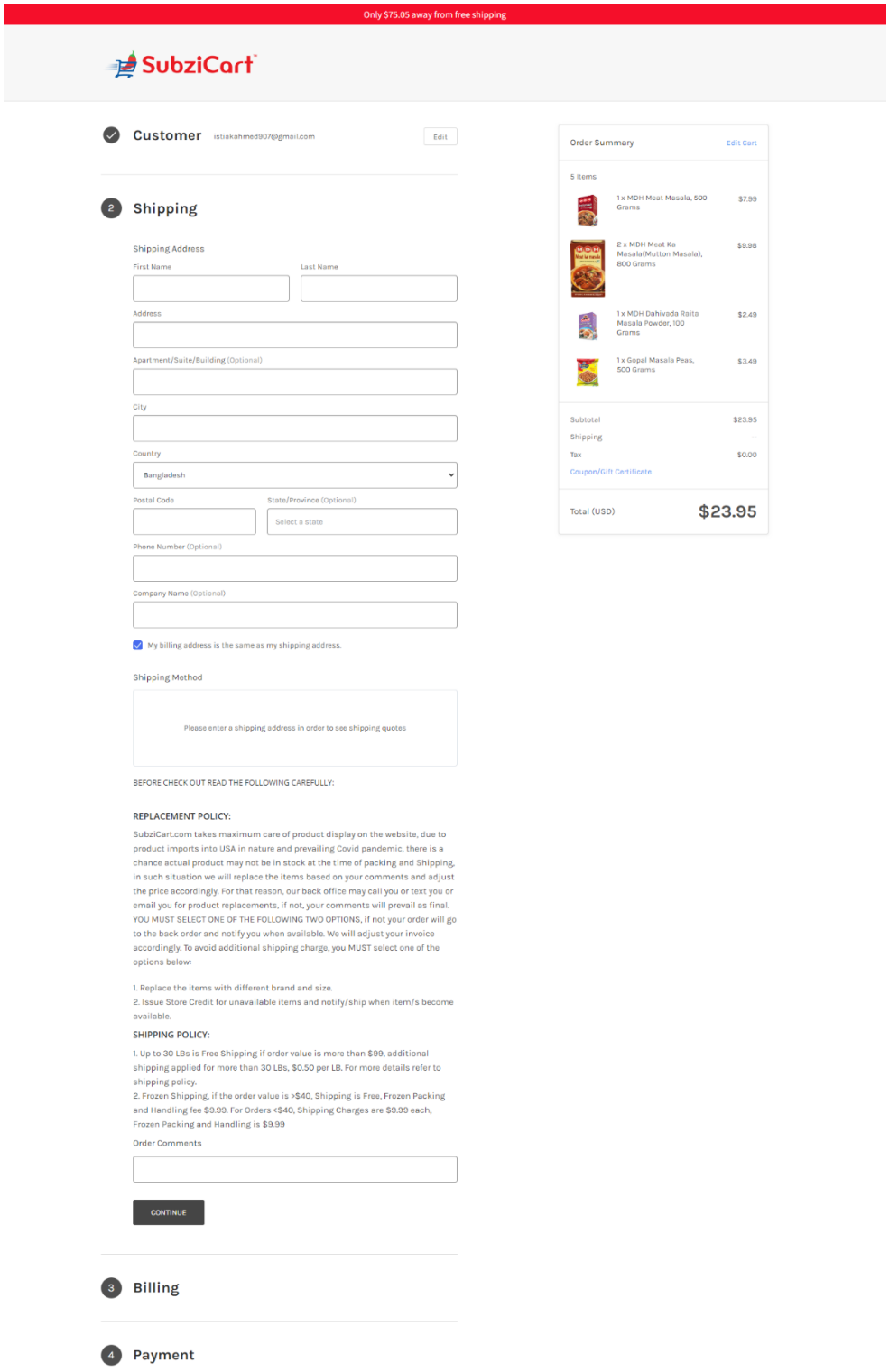


Figure 3.3.5: Checkout page

Figures 3.3.1, 3.3.2, 3.3.3, 3.3.4, and 3.3.5 all are the front view of one of my projects Subzicart.com. In front view home, category base product showcase page, products details page, cart page, checkout page. About this website – this is an

Indian, Bangladeshi, and South Asian grocery products selling website that running on USA.

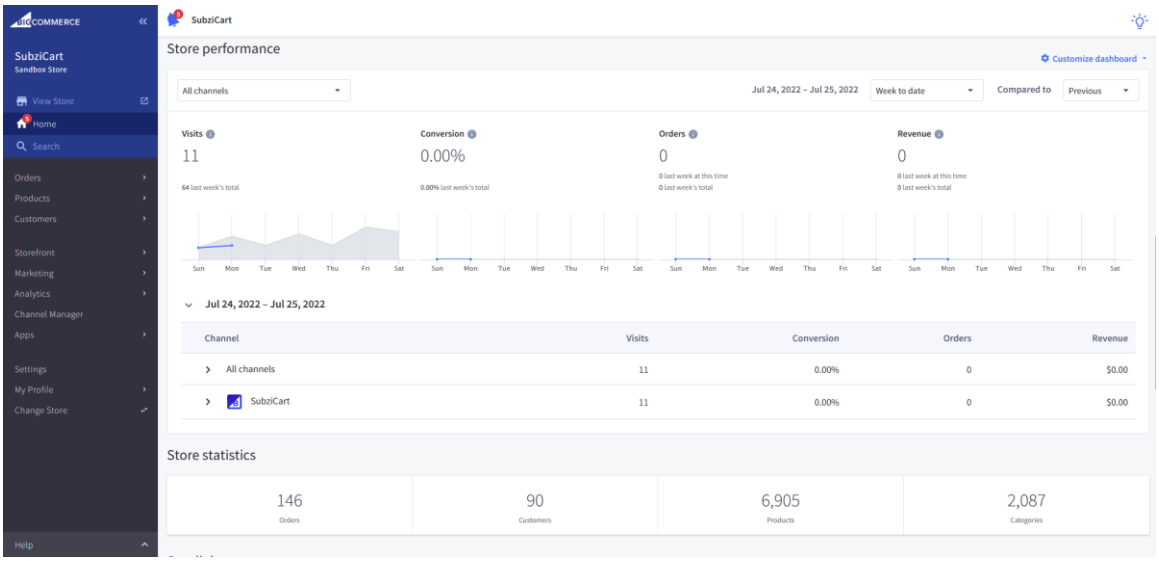


Figure 3.3.6: Bigcommerce backend dashboard.

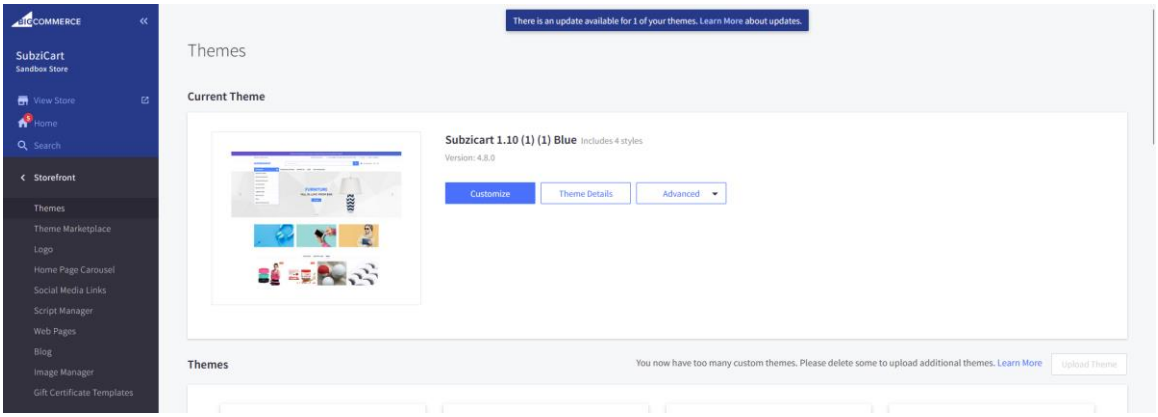


Figure 3.3.7: Bigcommerce theme page on the dashboard.

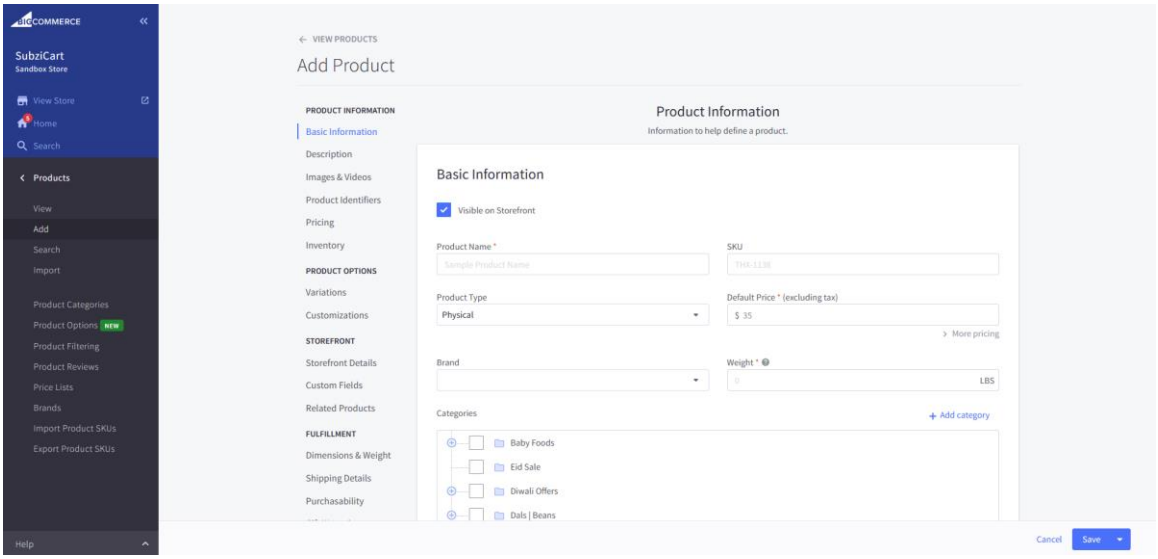


Figure 3.3.8: Bigcommerce add new products page.

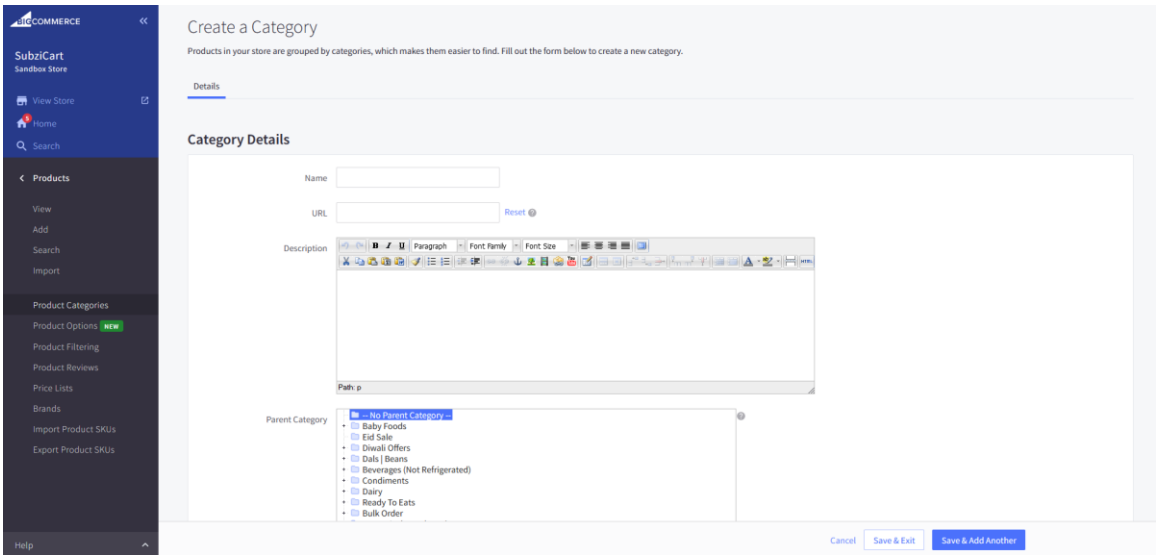
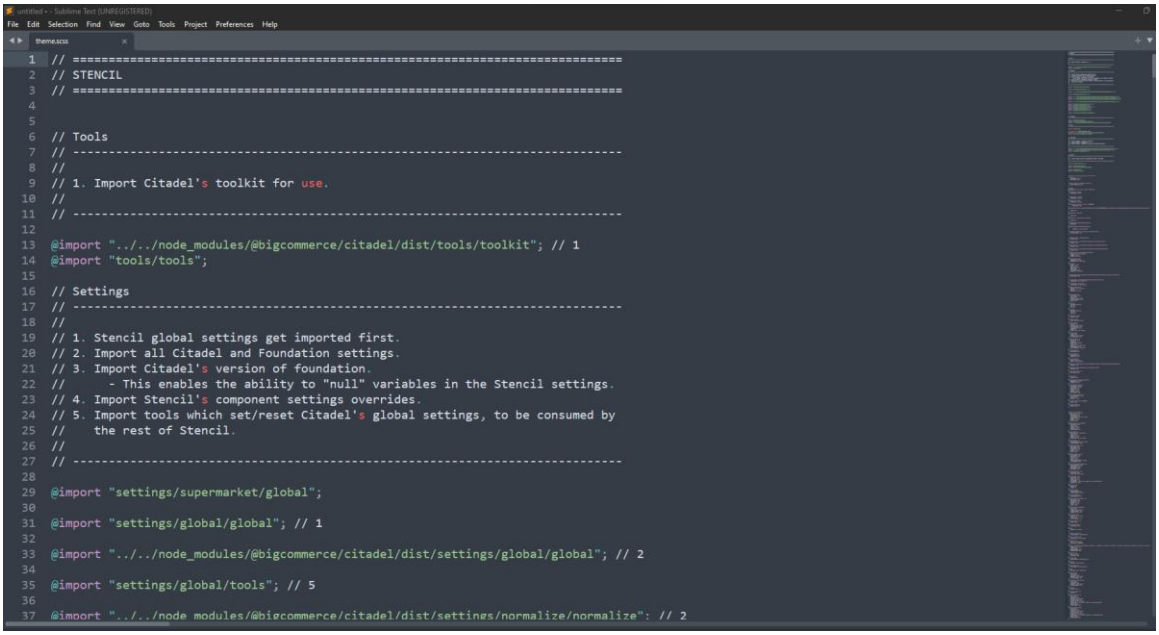


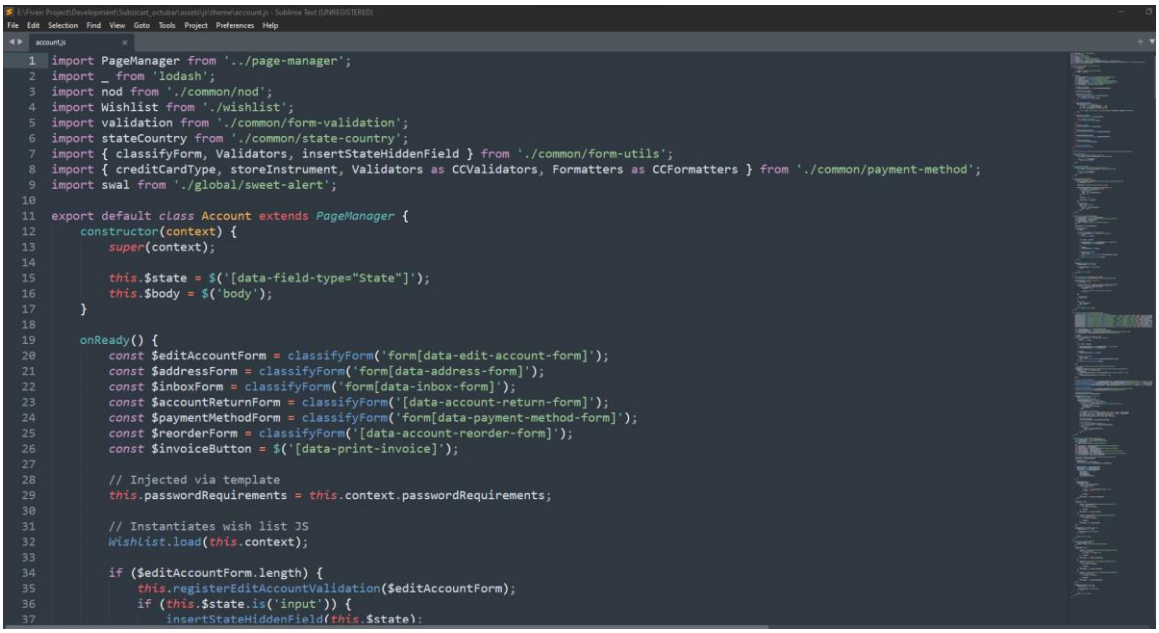
Figure 3.3.9: Bigcommerce add new category page.

Figures 3.3.5, 3.3.6, 3.3.7, 3.3.8, and 3.3.9 all are the admin and manager dashboard/ control panel view of one of my projects Subzicart.com. This dashboard made by bigcommerce. On this control panel we can upload products, add category, add brands, select theme that run on frontend.



```
// ==========================================================================
// STENCIL
// ==========================================================================


// Tools
// --------------------------------------------------------------------------
//
// 1. Import Citadel's toolkit for use.
//
// --------------------------------------------------------------------------

@import "../../node_modules/@bigcommerce/citadel/dist/tools/toolkit"; // 1
@import "tools/tools";

// Settings
// --------------------------------------------------------------------------
//
// 1. Stencil global settings get imported first.
// 2. Import all Citadel and Foundation settings.
// 3. Import Citadel's version of foundation.
//      - This enables the ability to "null" variables in the Stencil settings.
// 4. Import Stencil's component settings overrides.
// 5. Import tools which set/reset Citadel's global settings, to be consumed by
//    the rest of Stencil.
//
// --------------------------------------------------------------------------

@import "settings/supermarket/global";

@import "settings/global/global"; // 1

@import "../../node_modules/@bigcommerce/citadel/dist/settings/global/global"; // 2

@import "settings/global/tools"; // 5

@import "../../node_modules/@bigcommerce/citadel/dist/settings/normalize/normalize"; // 2
```

Figure 3.3.10: Bigcommerce scss codes.



```
import PageManager from '../page-manager';
import _ from 'lodash';
import nod from './common/nod';
import Wishlist from './wishlist';
import validation from './common/form-validation';
import stateCountry from './common/state-country';
import { classifyForm, Validators, insertStateHiddenField } from './common/form-utils';
import { creditCardType, storeInstrument, Validators as CCValidators, Formatters as CCFormatters } from './common/payment-method';
import swal from './global/sweet-alert';

export default class Account extends PageManager {
    constructor(context) {
        super(context);

        this.$state = $('[data-field-type="State"]');
        this.$body = $('body');
    }

    onReady() {
        const $editAccountForm = classifyForm('form[data-edit-account-form]');
        const $addressForm = classifyForm('form[data-address-form]');
        const $inboxForm = classifyForm('form[data-inbox-form]');
        const $accountReturnForm = classifyForm('[data-account-return-form]');
        const $paymentMethodForm = classifyForm('form[data-payment-method-form]');
        const $reorderForm = classifyForm('[data-account-reorder-form]');
        const $invoiceButton = $('[data-print-invoice]');

        // Injected via template
        this.passwordRequirements = this.context.passwordRequirements;

        // Instantiates wish list JS
        Wishlist.load(this.context);

        if ($editAccountForm.length) {
            this.registerEditAccountValidation($editAccountForm);
            if (this.$state.is('input')) {
                insertStateHiddenField(this.$state);
```

Figure 3.3.11: Bigcommerce JavaScript codes.

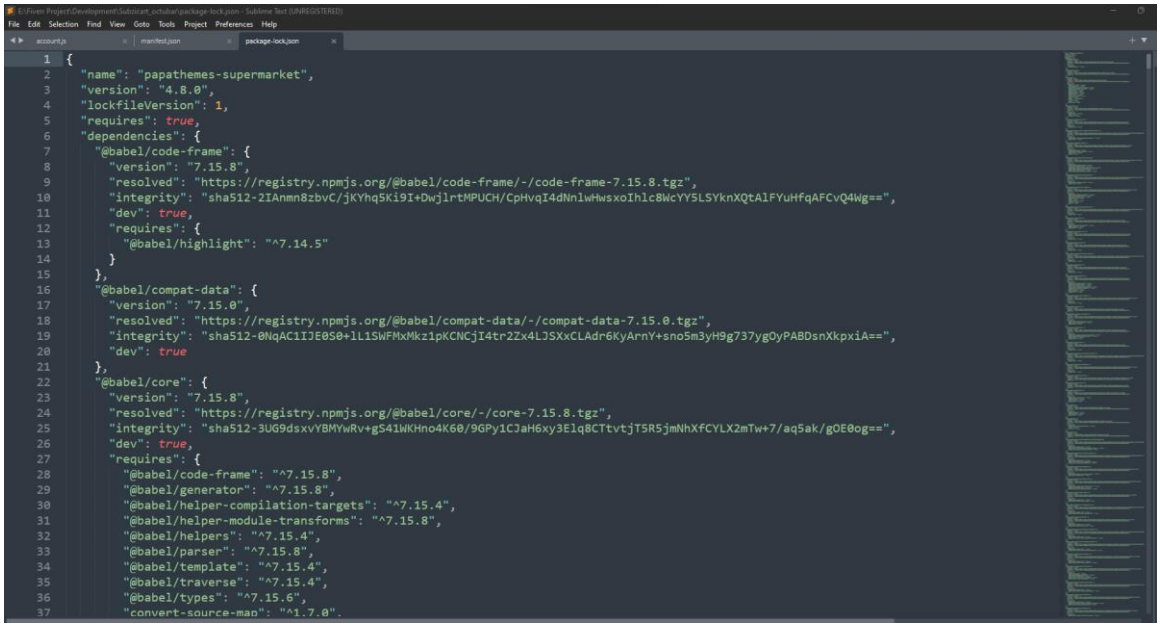


Figure 3.3.12: Bigcommerce JSON codes.

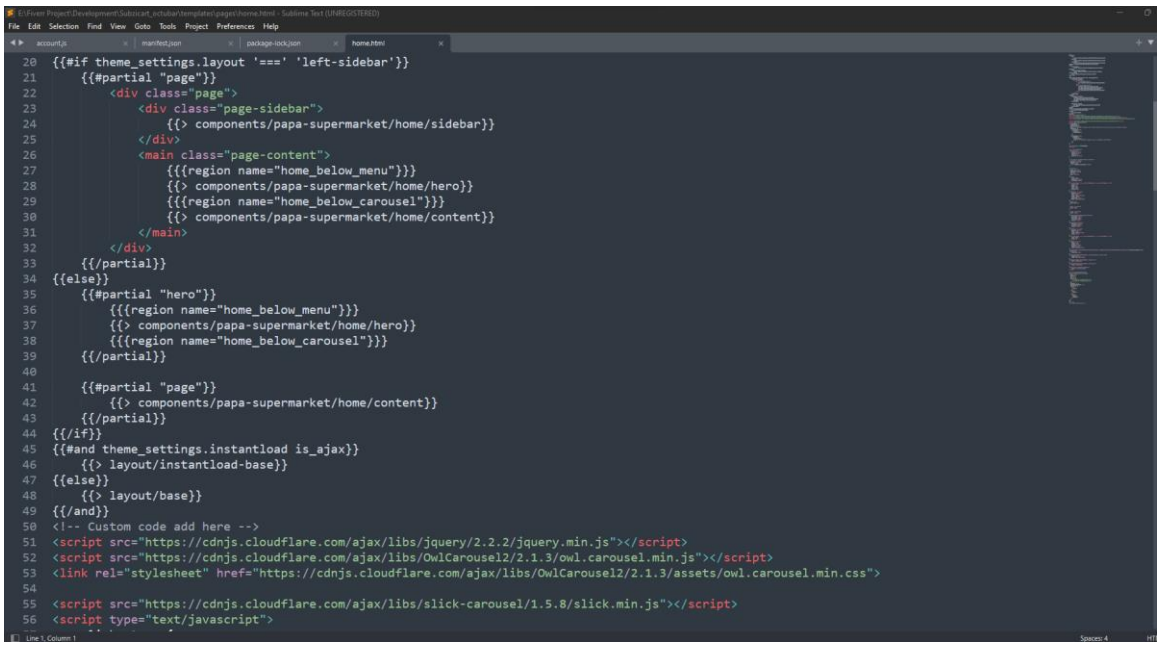


Figure 3.3.13: Bigcommerce Home page codes.

Figures 3.3.10, 3.3.11, 3.3.12, and 3.3.13 all are the theme files view. I right those code to build the website front-end view. Those theme files are made by Papa theme company. I customize the design and apply it as per our client requirements. I use

JavaScript, Html, SCSS, Jason, Git, and Stencil CLI. In the following table 3.3.1 shows the format of bulk products upload format.

Table 3.3.1: Bigcommerce products upload format

Products Upload format

Products Tittle	SKU	Category	Subcategory	Stock Level	Weight	Price
Laxmi Toor Dal	SLAX0457	Dals | Beans	Toor Dal	100	4 lb	$ 7.99
Laxmi Whole Moong	SLAX072	Dals | Beans	Moong Dal	25	4 lb	$ 7.49
Nirav Moong Split	SNIR1756	Dals | Beans	Moong Dal	96	3 lb	$ 8.36
Bru Instant Coffee	SHIN03s	Beverages (Not Refrigerated)	Coffee	50	3.5 Oz	$4.29
Instant Gulab Jamun Mix	DDE624	Ready to Cook	Instant Mixes	10	3.5 Oz	$2.29
Maggi Masala Cuppa Noodles	283FF	Ready to Cook	Instant Noodles	30	120 Gm	$3.49

These files are made in excel sheet (CSV) format. In this sheet we need to import on bigcommerce products dashboard and go to live upload with all the data [7].

The Most Common Types of Ecommerce Business Models

If you're starting an ecommerce business, odds are you'll fall into at least one of these four general categories. Each has its benefits and challenges, and many companies simultaneously operate in several. Knowing what bucket your idea fits in can help you think creatively about what your opportunities and threats might be. No matter your growth stage or business model, BigCommerce can position your business for its

maximum potential. If you're interested in learning more, contact sales to request a demo [2].

B2C (Business-to-consumer).

B2C businesses sell directly to their end-users. Anything you buy in an online store as a consumer — from wardrobe and household supplies to entertainment — is done as part of a B2C transaction. The decision-making process for a B2C purchase is much shorter than a business-to-business (B2B) purchase, especially for lower-value items. Because of this shorter sales cycle, B2C businesses typically spend less marketing dollars to make a sale while having a lower average order value and fewer recurring orders than their B2B counterparts. B2C includes both products and services as well. B2C innovators have leveraged technology like mobile apps, native advertising and remarketing to market directly to their customers and make their lives easier. B2B (Business-to-business).

In a B2B business model, a business sells its product or service to another business. Sometimes the buyer is the end-user, but often the buyer resells to the consumer. B2B transactions generally have a longer sales cycle, but higher-order value and more recurring purchases. Recent B2B innovators have made a place for themselves by replacing catalogs and order sheets with ecommerce storefronts and improved targeting in niche markets. In 2021, 60% of B2B buyers were millennials — nearly double the amount from 2012. As younger generations enter the age of making business transactions, B2B selling in the online space is becoming more important [2][3].

B2B2C (Business-to-business-to-consumer).

B2B2C stands for Business-to-Business-to-Consumer. It is a business model where a company sells its product or service in partnership with another organization to an end customer. Unlike when you white label a product — where a company rebrands an item to present it as its own — the end customer understands that they are buying a product or using a service from the original company [2][3].

B2G (Business-to-government).

Business-to-government (B2G) is an eCommerce here a business sells and markets its products to government entities or public administrations — whether local, county,

state or federal. This model relies on the successful bidding of government contracts. A government agency will typically put up a request for proposal (RFP) and ecommerce businesses will have to bid on these projects. While a more secure business model, B2G differs from other businesses or consumers. The bureaucratic nature of government agencies often leads to a much more glacial pace, which can limit potential revenue streams[2][4].

C2B (Consumer-to-business).

C2B businesses allow individuals to sell goods and services to companies. In this ecommerce model, a site might enable customers to post the work they want to be completed and have businesses bid for the opportunity. Affiliate marketing services would also be considered C2B.The C2B ecommerce model's competitive edge is in pricing for goods and services. This approach gives consumers the power to name their prices or have businesses directly compete to meet their needs.Recent innovators have used this model creatively to connect companies to social media influencers to market their products [2].

D2C (Direct-to-consumer).

A direct-to-consumer business sells its own product directly to its end customers, without the help of third-party wholesalers or online retailers. As opposed to other business models such as B2B2C, there is no middle man between the consumer and a business [2].

C2C (Consumer-to-consumer).

C2C ecommerce businesses — sometimes referred to as online marketplaces — connect consumers to exchange goods and services and typically make their money by charging transaction or listing fees. C2C businesses benefit from self-propelled growth by motivated buyers and sellers, but face a key challenge in quality control and technology maintenance.

Online businesses like Craigslist, Walmart, Alibaba and eBay pioneered this model in the early days of the internet [2].

Value Delivery Methods for Ecommerce Innovation

A value delivery method is how a product is designed in order to bring the most value to customers who are using it. If your business model is the car, your value delivery method is the engine.Here are some of the most popular delivery methods taken by industry leaders and market disruptors:

White label.

White labeling is when a company brands and sells a product under its own name and logo, but it is manufactured or purchased from a third-party distributor. This can help boost brand visibility while minimizing manufacturing costs. White labeling is popular within heavily reproduced industries such as fashion and cosmetics [2].

Private label.

A private label product is one that a retailer gets produced by a third party but sells under its own brand name. The retailer controls everything about the product or products. That includes the product's specs, how it’s packaged and everything else besides.

Private label products are then delivered to the retailer to sell. As far as consumers are concerned, they’re the company’s ‘own brand’ products [2].

Wholesaling.

Wholesale ecommerce is a B2B ecommerce model where, instead of selling your products individually to consumers, you sell them in bulk and at a discount to other businesses — essentially as the intermediary between the manufacturer and the distributor or retailer.

In a wholesaling approach, a retailer will typically offer its products at a significant discount [2].

Dropshipping.

One of the fastest-growing methods of ecommerce is dropshipping. Typically, dropshippers market and sell items fulfilled by a third-party supplier, like AliExpress or Printful. Dropshippers act as a middle man by connecting buyers to manufacturers.

Easy-to-use tools can allow users to integrate inventory from suppliers worldwide for their storefronts [2].

Subscription service.

As early as the 1600s, publishing companies in England used a subscription model to deliver books monthly to their loyal customers. With ecommerce, businesses are going beyond periodicals and fruit-of-the-month clubs. Today, virtually every industry has seen the arrival of subscription services to bring convenience and savings to customers [2] [3].

3.4 Challenges:

Experiencing several requesting circumstances or issues is typical inside the hour of the completion of a broad endeavor. I'm moreover enduring as well, however moving past unambiguous experiences for individuals. While I am fixing mistakes and entire, my undertakings have an extra piece of bliss and entertainment. This might make us bounty surer about my future calling.

CHAPTER 4

Competencies and Smart Plan

4.1 Competencies Earned

All through my Internship length, I've toiled with a couple of drives. In that favored course of events, I have finished those work. Thusly, I can say that now adequately, I'm progressed to attempt to do any very difficult task inside the web zone connected with Bigcommerce Web development. Presently, I'm genuinely ready for the profession and the powerful difficult stretches. Furthermore, I've moment ability in creating extraordinary web applications with the most present-day state of the time. Presently, I'm prepared to get current innovations inside a fast period. As of late, much additional innovation comes consistently, and I'm coordinated for getting those advances.

4.2 Smart Plan

Presently, I have an arrangement for my vocation for making and improving with remarkable web advancement. As of now, I arranged to go to enliven my future in the resulting ways:

- Attempt to track down a new thrilling profession.
- Making a new CV and portfolio, finding the prevalent work.
- Make a profile on LinkedIn and GitHub likewise, further developing them with better quality.
- Continuously adjust with innovations.

4.3 Reflections

- Teaming up with an innovative group and accomplishing testing work.
- Accomplishing something remarkable for our country.
- Adjust with all the innovations.

CHAPTER 5

Conclusion and Future Career

5.1 Discussions and Conclusion

I learned numerous things during my review time. How the venture was made due, and the dateline, was vital. Finding out about the improvement of many web applications can assist me with looking for higher work. Then, at that point, I work with a group of specialists who support me in fostering my future profession.

5.2 Scope for Further Career

My internship and the information I gain will assist me with working on my forward-moving step. Yet, there are a couple of constraints to my experience, and I need to benefit from my experience. Notwithstanding, my ongoing experience can be sufficiently independent to find a new line of work. Presently, I am finding the resulting future profession is frequently to my objective:

- Better involvement with Bigcommerce web development will uphold me to land amazing open doors for creative positions.
- As of now isn't much of Bigcommerce web developers at present, so I could get a surpassing line of work for a product organization.
- Different involvement with web improvement could be choosing me to top IT Companies.

APPENDIX

Appendix A: Internship Reflections

I concluded that the internship would further develop my future so I could take on new difficulties in the gig market. We need to foster the information on a versatile venture in reality to utilize the data. My temporary job caused me to plan the excursion for this test. Right now, I am completely getting ready for a difficult and dynamic, and testing task. This data upholds me to be sure about my work and will continuously be appreciative to Uploadion Software Solution for such a lot of help in my future work.

Appendix B: Company Detail

Uploadion Software Solution

Website**:** https://uploadionsoft.com/

Email: info@uploadionsoft.com

Cell: +1 202 – 991 – 1427

Address: 1802 Vernon St NW #1090 Washington, DC 20009, United States.

REFERENCES

[01] “Uploadion Software Solution” Available-at: https://uploadionsoft.com/ [last-accessed: 20.07.2022 at 11:45am]

[02] “Bigcommerce” Available-at: https://www.bigcommerce.com/ [last-accessed: 20.07.2022 at 01.07pm]

[03] “Wikipedia”Availableat: https://en.wikipedia.org/wiki/BigCommerce [Last accessed: 02.07.2022 11:41pm]

[04] “Stencil CLI Options and Commands” Available at: https://developer.bigcommerce.com/ [last-accessed: 05.07.2022 at 02.07pm]

[05] “Login Bigcommerce” Available at: https://login.bigcommerce.com/login [last-accessed: 05.07.2022 at 02.07pm]

[06] “Bigcommerce Dashboard” Available at: https://store-msbvhyastw.mybigcommerce.com/manage/dashboard [last accessed: 06.07.2022 at 10.20pm]

[07] “Bigcommerce App”Available-at: https://www.bigcommerce.com/apps/ [Last-accessed: 20.07.2022 at 03.12pm]

[07] “Table”Available-at: https://subzicart.com [Last-accessed: 20.07.2022 at 03.12pm]

[08] “SWOT” Available at: https://en.wikipedia.org/wiki/SWOT_analysis [last-accessed: 04.07.2022 at 01.07pm]

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Faculty of Science and Information Technology

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Project Documentation Summary Report

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Student ID	192-15-13068			

SL#	Items to be checked	Status (Tick)		Comment
01	Title of the Work. (Checked and correct)	Yes√	No	
02	Abstract (Checked and correct)	Yes√	No	
03	Table of Contents (Checked and correct)	Yes√	No	
04	Formatting (line spacing, font name, font size, orientation) (Checked and correct)	Yes√	No	
05	Figure (Numbering, Properly visible, orientation, caption, mentioned in corresponding text) (Checked and correct)	Yes√	No	
06	Table (Numbering, Properly visible, orientation, caption, mentioned in corresponding text) (Checked and correct)	Yes√	No	
07	Originality of the Report (Verified or not)	Yes√	No	
08	Fully Developed Specification (Checked and correct)	Yes√	No	
09	Implementation and Evaluation (Described with appropriate figure)	Yes√	No	
10	Spelling and Grammar checking (Checked)	Yes√	No	
11	Limitations and Conclusions (Exists or not)	Yes√	No	
12	References (IEEE style)	Yes√	No	
13	Citations (Properly Cited)	Yes√	No	

I checked all the points mentioned above and hereby recommend this internship for final-defense.

……

Supervisor Name: **Refath Ara Hossain**, Lecturer, Department of CSE

Internship on E-commerce Web Development

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