INTERNSHIP REPORT

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An undergraduate internship report on Web Designing

submitted by

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Subhojit Kumar Bakshi

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Abstract

This report is divided into eight different chapters. At first in chapter one there is an introduction, background of designing, design objective. Then we go to Chapter two that describes the overview of Decimal IT. Then Chapter three that focuses on Literature Review. Chapter four describes the requirement analysis. Chapter five focuses on development phases of web designing, e commerce development. Chapter six narrates responsive UI designing. Chapter seven describes conclusion and recommendation.

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Executive Summary

This report is prepared on the basis of my three-month practical experience at Decimal IT. This internship program helped me to learn about the practical scenario of a software Industry. Decimal IT is already providing software solutions and services in our country and other countries. During my internship period, I mainly worked as a frontend developer. I made two PSDs to Html, one E-Commerce (Frontend) site mainly and few customizations.

The amount of online businesses is increasing with every single day. This means that more web pages need to be created since nowadays a website is like a modern business card. This creates the need for simplification of the whole process. Basically PSD to HTML is a process where the front-end developer converts a web page design file to a fully functional HTML web page which makes design unique, responsive to all devices and users get pixel perfect coding as it is an important part of highest quality markup.

Besides, WordPress is the world's leading e-commerce platform nowadays, powering more than 30,000 online stores to over $1.3 billion in sales. Besides that, WordPress is a specialized ecommerce builder with tons of built-in features, data tools. WordPress is best for large or fast-growing businesses. WordPress is an easy to use program with many incredible features. Converting PSD to WordPress using Html and CSS mean's design according to PSD and implement it in Ecommerce which allows to create an online store, set up store, add products.

The prime objective to Convert PSD to HTML website is a skillful solution to solve a given problem. It's not purely functional but a combination of providing information, store quality content, connect people, promote people or businesses and to enjoy a great web experience. The PSD to HTML service gains popularity because it is one of the best ways to create responsive websites whereby a designer creates a web page that resizes itself user friendly and depending on the type of device like desktop computer monitor, laptop or small screens devices like smartphone, tablets.

I have thoroughly enjoyed my experiences at Decimal IT and the internship program has been extremely useful for both my academic studies and future career

Purpose of Internship

Internship programs provide a new perspective to the students. It provides learning opportunities outside the boundaries of the course curriculum and classroom activities. These opportunities enhance student's capability to apply theoretical understanding into real-world scenarios, thereby enhancing the students' academic and career goals.

From the student perspective, internship assists with career development in different diverse fields such as coding, programming, networking, marketing etc. by providing vital work experience that allows students to explore their area of interests and develop relevant skills and competencies.

From the organization perspective, internship provides a unique opportunity to train fresh talents, enhance their professional development as well as aid the professional growth of the intern mentor/supervisor. Organizations can also find potential employees within the interns.

Objective of Internship

The purpose of this internship is to expose students to real work of environment experience and at the same time. The report is prepared for the purpose of explaining the achievement of the author during the internship period. The objectives of internship program are as follows:

- To build the strength, teamwork spirit and self-confidence in students' lives.
- Provides the opportunity to learn real-life work skills and etiquette hands-on at a real job.
- To Gain valuable skills, knowledge and experience in a field to allow you to make a career transition.
- Explore a career interest, develop skills, and gain experience.
- Internships focus on the skills you will learn and the experiences you will have, not simply on the company name.
- To help you apply the theory and skills you have learned in the classroom setting, and for your personal development.
- The student will be able instilled with good moral values such as responsibility, commitment and trustworthy during their training

CHAPTER 1

1.1 Introduction

IUB engineering school, an institute under Independent University, Bangladesh offers undergraduate program in “Graduate in Engineering School Administration". As a student of the undergraduate program, the program requires that we complete an internship period with a reputable company where I will be trained practically with working environment practices and get familiar with the industry. I worked at a software company Decimal IT where I am to complete 3 months of internship. In this report, I have discussed my internship period at Decimal IT, an overview of the company and its activities, my experiences working for a reputed organization, what I have learned and how it has helped me to develop and grow.

Firstly, I work as a frontend developer. They wanted to know how I know about fronted developers. They gave me some PSD files of a restaurant to make a responsive website. Then I convert it using this HTML and CSS, JavaScript then I make this in one-month. Later I work on one Ecommerce site from frontend to Backend. Thanks to almighty for giving me patience and courage to complete this project.

A PSD Web Template is an uncoded website. It has all the visual elements of the web site including the background, the images, the layout, the typography and more. But there is no HTML or CSS involved. Each layer will have the different elements for the website. You will have a layer for the logo, the header, the content, the navigation (or multiple layers in a folder) and so on.

WordPress is a top CMS platform which allows you to create any online store. Firstly, I have to create a database then install the required theme and plugins and later customize the theme. It lets you set up a store, add products, and make money through websites. But that’s not all. WordPress is a specialized ecommerce builder, meaning it’s designed to help sell online. With tons of built-in features, data tools, and more, WordPress is best for large or fast-growing businesses.

1.2 Background of the Design

The amount of online businesses is increasing with every single day. This means that more web pages need to be created since nowadays a website is like a modern business card. This creates the need for simplification of the whole process. Basically, PSD to HTML is a process where the front-end developer converts a web page design file to a fully functional HTML web page which makes design unique, responsive to all devices and users get pixel perfect coding as it is an important part of highest quality markup.

Besides WordPress is the most popular CMS in the world and is used by nearly 75 million websites. According to WordPress, more than 409 million people view more than 23.6 billion pages each month and users produce 69.5 million new posts and 46.8 million new comments every month. Using a theme and some plugins WordPress which allows to create an ecommerce website, set up store, add products.

1.3 Design Objectives

The prime objective to Convert PSD to HTML website is a skillful solution to solve a given problem. It's not purely functional but a combination of providing information, store quality content, connect people, promote people or businesses and to enjoy a great web experience. The PSD to HTML service gains popularity because it is one of the best ways to create responsive websites whereby a designer creates a web page that resizes itself user friendly and depending on the type of device like desktop computer monitor, laptop or small screens devices like smartphone, tablets.

Besides that, WordPress is a specialized ecommerce builder with tons of built-in features, data tools. WordPress is best for large or fast-growing businesses. WordPress is an easy to use program with many incredible features.

CHAPTER 2

COMPANY PROFILE

2.1 Overview of Decimal IT:

Founded in 2017 with packed software brains, Decimal IT is already providing software solutions and services throughout the world.

Decimal IT combines a unique blend of extensive technical expertise, state-of-the-art infrastructure, innovative offshore methodologies and well-defined development, testing and project management processes to provide clients with reliable, secure, affordable development solutions.

Decimal IT has been offering web application design and development services to the customers around the world. We specialize in web design, website development, web application development, e-commerce development, search engine optimization and customized software development and also experts in several Open Source platforms.

Decimal IT's primary focus is to provide our customers a first-class service without compromising on quality for affordable prices, hence we maintain a very high standard of service from start to finish on every step of the process from design, development to ongoing support. We like to go for quality, not quantity!

An IT solutions company with the dedication and passion to provide quality IT services. Here at Decimal IT, the group of ICT professionals thrive to provide Web and Mobile App development services, e-commerce solutions, digital marketing services, UI & UX designing services among many other fabulous things to help grow a business digitally. Decimal IT is a one stop solution for all ICT needs.

2.2 IT Services Offered:

Custom development is the best option for developing, or having someone develop your own custom software/ script/ application/ system can greatly help business. It can be made to perform your business processes exactly how you want them done, and can be customized to include exactly what you want or need out of that software. Our custom products are as follows:

- Custom Web Application Development
- Human Resource Management Development (HRM)
- Customer Relationship Management Development (CRM)
- Modules and Document Management System Development (MDMS)
- Customer Satisfaction Survey System Development (CSSS)
- Property Management System Development (PMS)
- Office Accounting System Development (OAS)
- Employee Management System Development (EMS)
- Customer Payment Management System Development (CPMS)

2.3 WordPress Development:

WordPress is the best Content Management System to use to build your website! it has come a long way and has become a very comprehensive Content Management Suite used to power many different types of websites, including business sites, personal sites, job boards.

Decimal IT offers high end WordPress development services being a hugely experienced and structurally organized development team who are dealing with WordPress Theme Development, Plugin Development and Customized Implementation for the last three years as a unit. Having tons of WP, PHP, MySQL development experience supported by serious HTML5, CSS3, and JavaScript knowledge (we just love jQuery), we offer comprehensive analysis and best practice recommendations, from architecture planning through post-deployment working with WP projects for our clients. Our development team offers HIGH coding standards, performance and upgrade-ability from the start.

2.4 Mission, Vision & Value

Amongst Decimal IT's missions providing B2B Web/App Solution to all SME, besides providing digital marketing Solution for various kind SME, providing quality solution and support to customers are mainly focused.

1. Initial Vision: Providing low cost Web/App Solution to Startup and onboard many Partners as possible to create long term relation ensuring satisfactory services.

2. Long Term Vision: Building some solutions and trying to sell them a subscription-based model to SME.

3. Ultimate-Vision: Providing data related solutions and Automated SME Business Process.

Amongst values Teamwork functions for Decimal IT as assigning teams to tasks are successful because teamwork encourages communication and the flow of ideas. Employees work in teams because working with others allows each employee to bring their best to work.

Trust amongst employees and customers is another value here. Therefore, emphasize the value, integrity. The company is saturated with confidential information. Decimal IT does business with integrity to gain their customers' respect and trust.

Maintaining a quality behavior between customers – employees is one of the most important values in Decimal IT.

CHAPTER 3

LITERATURE REVIEW

3.1 About Web design:

Web design is the process of creating websites. It encompasses several different aspects, including web page layout, content production, and graphic design. While the terms web design and web development are often used interchangeably, web design is technically a subset of the broader category of web development. Also, the amount of online businesses is increasing with every single day. This means that more web pages need to be created since nowadays a website is like a modern business card. This creates the need for simplification of the whole process. This simplification is illustrated in the growing in popularity service PSD to HTML conversion.

3.2 Impacts of Web designing in PSD to Html:

PSD to HTML is basically a process that converts a design document to a web layout. PSD is a Photoshop Document file which contains the design and this file is later on converted into actual HTML, CSS and JavaScript code. The PSD to HTML service gains popularity because it is one of the best ways to create responsive websites, there are no misunderstandings and has some pluses like fast site navigation that will eventually bring more audience.

Browser Support:

It is not an issue any longer. Using the PSD to HTML conversion means that the content of the web page is accessible on all the big browsers like Chrome, Opera, Firefox.

Fast Loading Speed:

It is one of the most important factors when it comes to client satisfaction in the front-end development business. The smaller the amount of code is – the faster is the loading speed. This means no pointless DIVs or tables.

Fewer Misunderstandings:

The Front-End development business always had difficulties in the communication between the client and the specialist. It is hard for the client to explain what he exactly needs for his project and the actual code needs multiple revisions in order for the final result to be achieved. This is where the PSD to HTML service saves the day.

3.3 Procedures:

- The first step is to discover and define the exact needs and goals of given design.
- The site's navigation structure is one of the main focuses here as well for it must be highly optimized and quick and easy for your visitors to browse.
- The web pages drawn up in the design phase will be created.
- Then, the final stage of the site's creation will be completed.

3.4 Knowledge, Skill, Environment and Resources:

Tools: Sublime Text, PHP, Adobe Photoshop, Adobe XD. Knowledge of HTML, CSS, BOOTSTRAP, JS.

HTML:

- Basic concept (WWW & HTTP, HTTPS, Client Server Communication)
- Basic HTML (Tags, Element, Attributes, Paragraphs, Headings, Line Breaks, Lists, Table, Color Codes, Font, Text Linking, Email, Images, Background)
- HTML Forms (Input, Text Fields, Password, Checkbox, Combo Box, Radio, Text Areas, Buttons)

CSS:

- Basic CSS (selector, internal, external, Inline, Class, Id, Background, font, Text, Padding, Margin, Border, list CSS, hovering and elements)
- Advance CSS (border-radius, opacity, cursor, layers, position, display, float, gradient, and multiple- column)
- Concept of Menus (single menu, dropdown menu)
- Template, design using CSS div.
- Dropdown, Button group
- Navigation Element

Bootstrap:

Bootstrap is an open source toolkit for developing with HTML, CSS, and JS. Quickly prototype your ideas or build your entire app with our Sass variables and mixing, responsive grid system, extensive pre built components, and powerful plugins built on jQuery.

JQuery:

jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript.

3.5 Database Selection:

There are a variety of databases that we can select from the market. The widely used databases are Microsoft Access, Microsoft SQL, Oracle and MySQL. Looking at Microsoft Access, it does not encourage concurrent usage and it may be inefficient, as the database needs to be saved into one. It is also unable to process high speed and large size databases as compared to MySQL. In terms of costs, Oracle database requires a licensing fee but MySQL database is freeware. In addition, MySQL database is easy to install, user friendly, reliable and is able to run on different platforms. Moreover, PHP can access MySQL database directly without the need to go through ODBC (Open Database Connectivity). To conclude, PHP script is able to run faster with MySQL database and the processing time will definitely be shorter. The pre-school does not require complex and costly software for its database management system hence MySQL is the ideal database for this project.

3.6 Web Server Selection:

After deciding on the language and database, next is to select the web server that can support them. Web server is necessary for the delivery of web content to the web browser. As such, Apache HTTP server which has performance similar to other 'high-performance' servers is considered, based on the performance and interface, XAMPP server is the preferred choice.

CHAPTER 4

REQUIREMENTS

4.1 System Requirements:

System Development Software Tools

- MySQL database to store and secure information.
- JQuery, JavaScript, CSS, HTML to develop the system.
- Sublime text software used as code editor.
- Apache XAMPP Server 8.0 for testing the application during development.

System Hardware Development Tools

- Microprocessor: Intel(R) Core(TM)i7-8565U CPU @ 2.3 GHz
- RAM: 8 GB of RAM
- Hard Disk: 1 terabytes (TB) and 240 GB SSD on installation drive

Operating Systems:

- Windows 10 Pro 64 bits Operating System for developing this system.

About System:

The interface design focuses on the layout of the entire web portal that is actually visible to the users after deploying it into a real time environment. The interface design only shows the physical framework of each web page in the portal. In this design I am done with only the frontend part. And Just started with customization.

4.2 Functional Requirements:

We have identified the functional requirements and the functional requirements are given below:

- **Authority**
  - Add Product

New entries must be entered in database

  - Update Product

Any changes in product should be updated in case of update

- Delete Product

Wrong entry must be removed from system

- Inquiry Registered Customers

Inquiry all current enrolled customers to view their details

- Check out product

Any ordered product must be checked out

- Check in sold product

After receiving any selling product system will reenter product by Checking

- Inquiry comments for approvals

Customer give comments which is in waiting list

- Prepare Shop database

All database must be prepared

- **Customer**

- Authentication

Customers must authenticate before accessing system

- Search Product

Customers can search any product

- Request Product

After successful searching Customers can add item to cart for checkout

- Check Account

This use case is used to check account details

- Register user

Customers must full fill all application form for registration

4.3 Non-Functional Requirements:

- **Security:**

Only authorized users can access the system with username and password.

- **Performance:**
  Easy tracking of records and updating can be done.
- **User Friendly:**
  The System is very interactive.
- **Maintainability:**
  Backups for databases are available.
- **Service:**
  The system will run 7 days a week, 24 hours a day.

4.4 Performance Requirements:

The performance of the software will be as smooth as possible with special consideration on the following parameters-

- Quality
- Easy to Operate or Navigate
- Planned approach towards working
- Accuracy
- Reliability
- No Redundancy
- Immediate retrieval of information
- Immediate storage of information

CHAPTER 5

DEVELOPMENT PHASE

5.1 Methodology:

"It's an Agile method which proposes an incremental and iterative approach to software design. This continuous process, namely our development lifecycle, begins with learning discovery and goal of website and ends with maintaining content of site."

1. DISCOVER
2. DESIGN
3. DEVELOP
4. DEPLOY
5. MONITOR
6. MAINTAIN

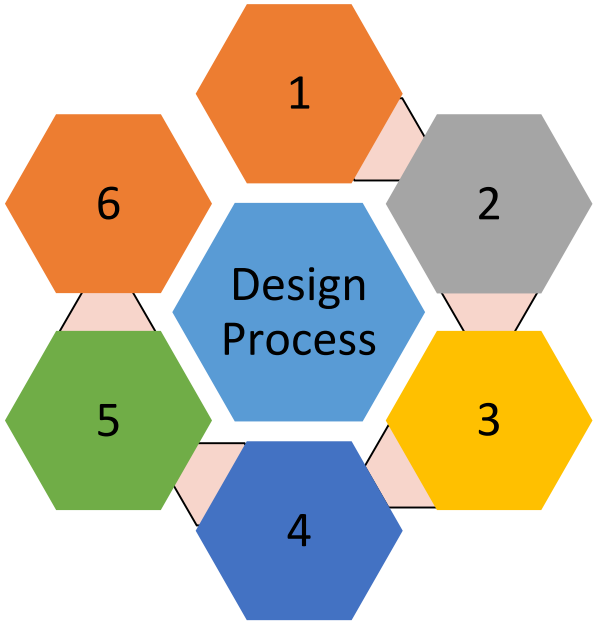

Figure 5.1 Agile Method

5.2 Rich Picture (Existing System)

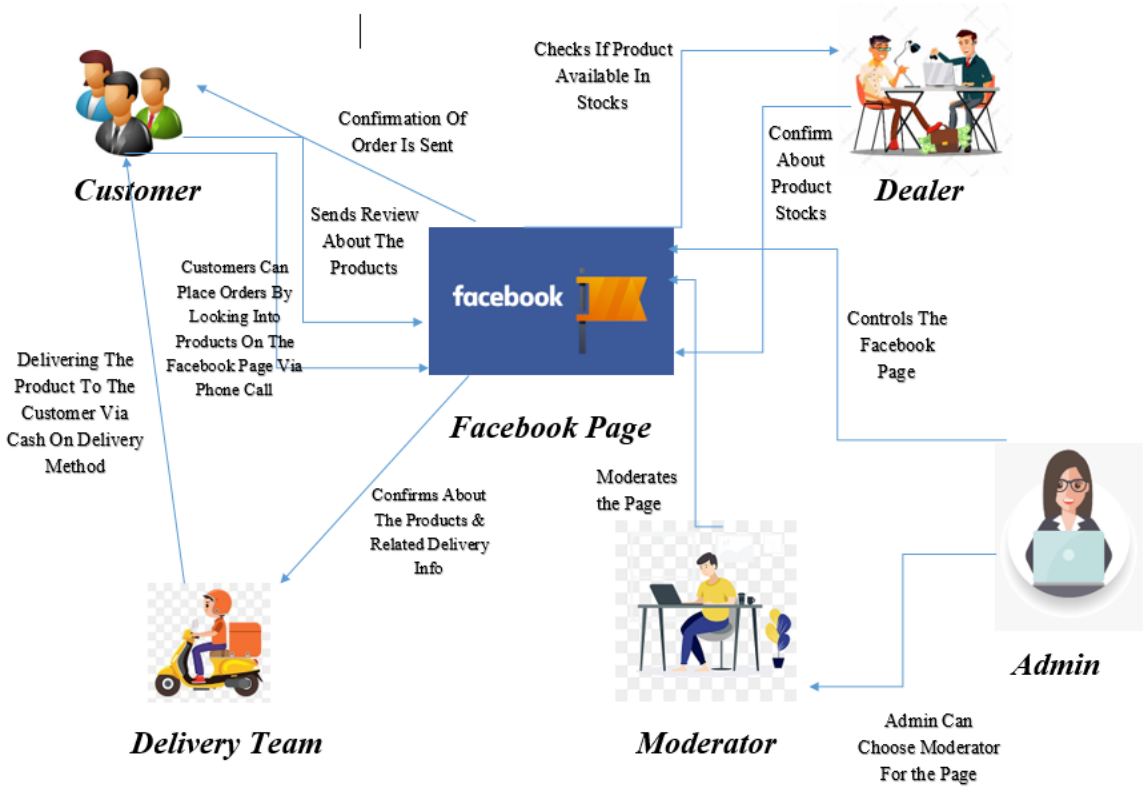

Figure 5.2 Rich Picture of Existing System

5.3 Rich Picture (Proposed System)

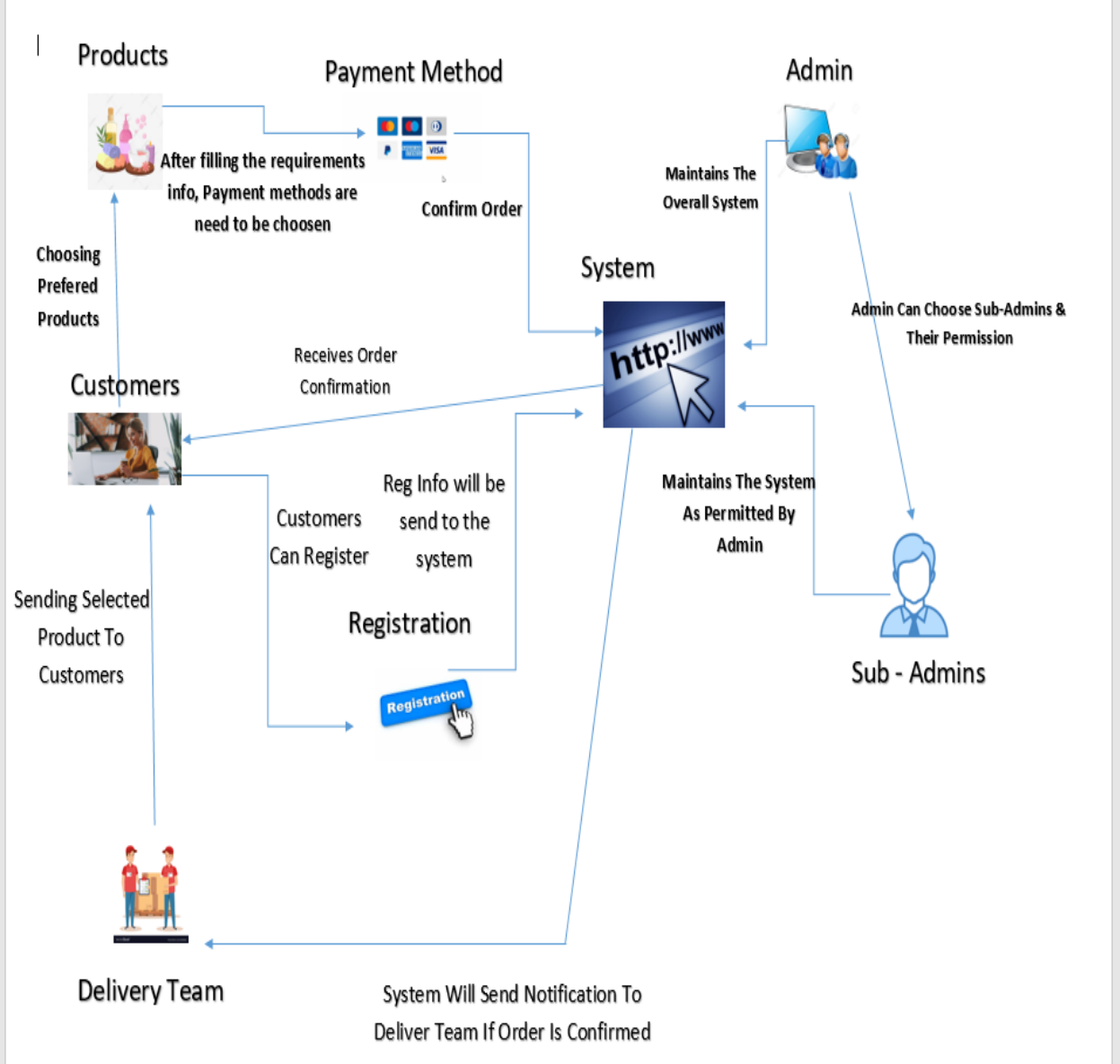

Figure 5.3 Rich Picture of Proposed System

5.4 Six Element Analysis (Proposed System)

Process	Human	Non-comp. Hardware	Computing Hardware	Software	Database	Connection & Network
Choose Product	Select Product from Websites	Customer buy product by phone call	Pc, Smart device	www.amaritoo.com	Live server	internet
Upload new product	Admin upload new product, pictures, description, etc	None	Pc or smart devices	www.amaritoo.com	Live server	internet
Review the Product	Customer review the product after purchase	None	Pc, Smart device	www.amaritoo.com	Live server	internet
Deliver Product	If the product available, deliver boy pickup	Put signature	Smart device	www.amaritoo.com	Live server	internet

Figure 5.4 Six Element Analysis of Proposed System

5.5 Entity Relationship Diagram (ERD):

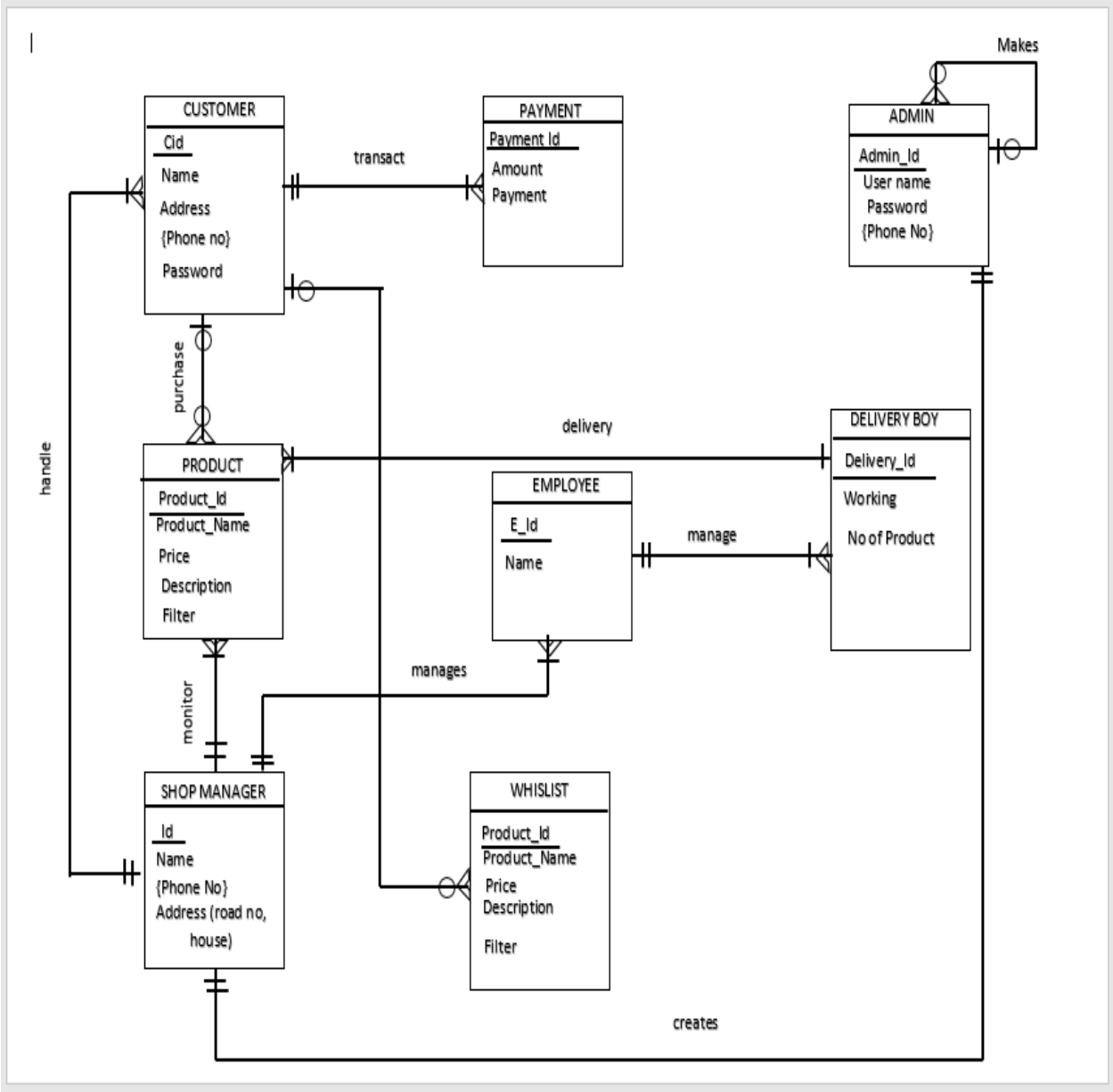

Figure 5.5 Entity Relationship Diagram for System.

5.6 Data-Flow Diagram (DFD):

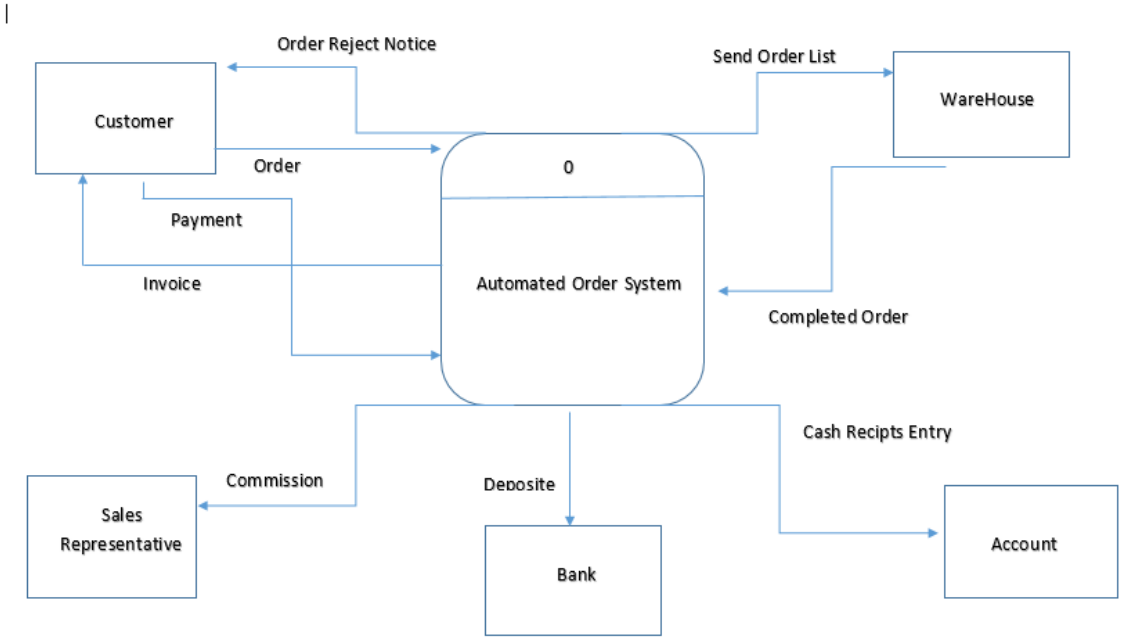

Figure 5.6 Context Level Data Flow Diagram.

5.7 USE CASE DIAGRAM

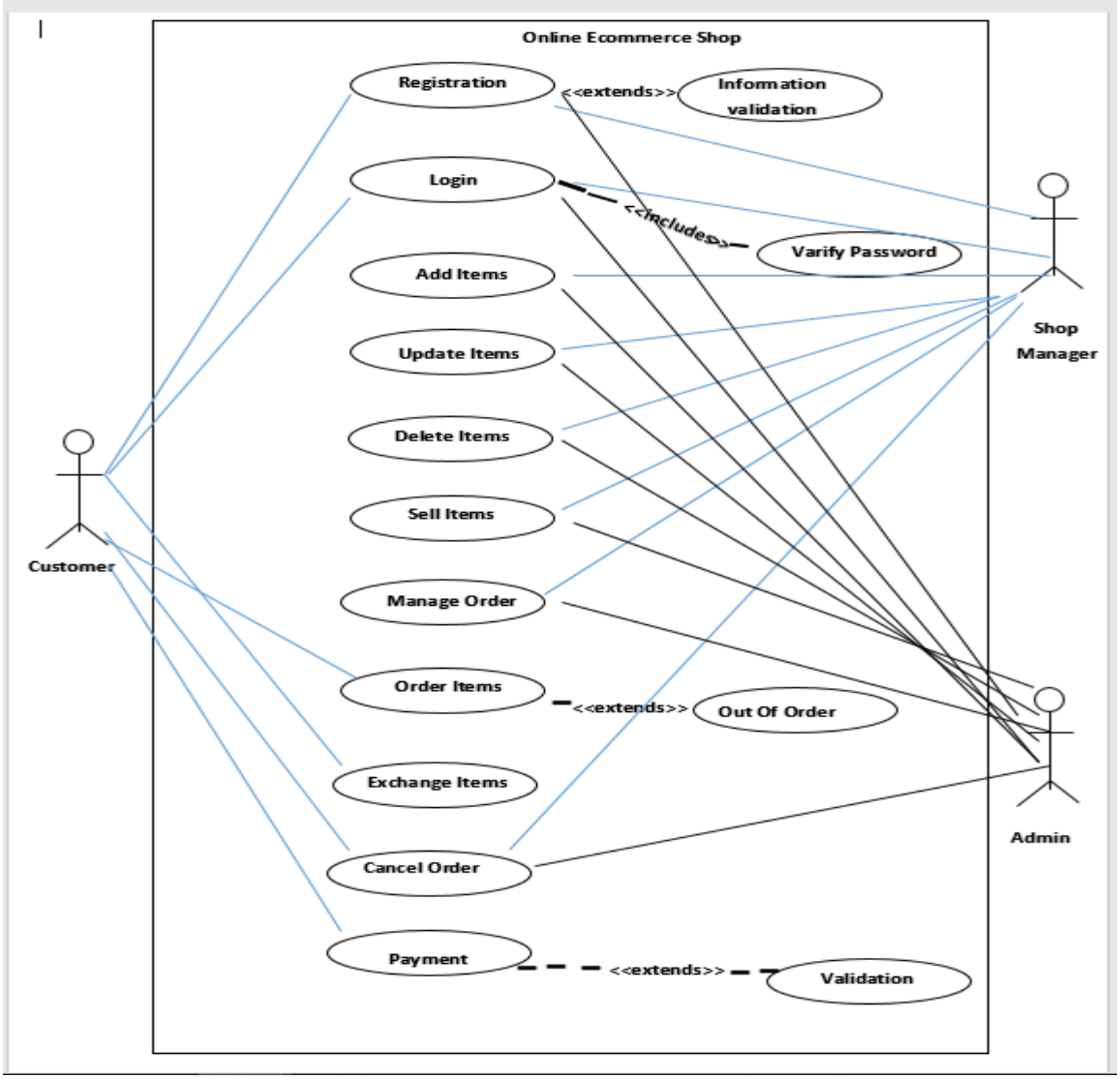

Figure 5.7 Use Case Diagram

CHAPTER 6

RESPONSIVE UI DESIGNING

6.1 Implementation:

A product software implementation method is a systematically structured approach to effectively integrate a software-based service or component into the work flow of an organizational structure or an individual end-user. This entry focuses on the process modeling (Process Modeling) side of the implementation of “large” (explained in complexity differences) product software, using the implementation of Enterprise Resource Planning systems as the main example to elaborate on.

A product software implementation method is a blueprint to get users and/or organizations running with a specific software product. The method is a set of rules and views to cope with the most common issues that occur when implementing a software product: business alignment from the organizational view and acceptance from human view. The implementation of product software, as the final link in the deployment chain of software production, is in a financial perspective of a major issue. It is stated that the implementation of (product) software consumes up to 1/3 of the budget of a software purchase (more than hardware and software requirements together).

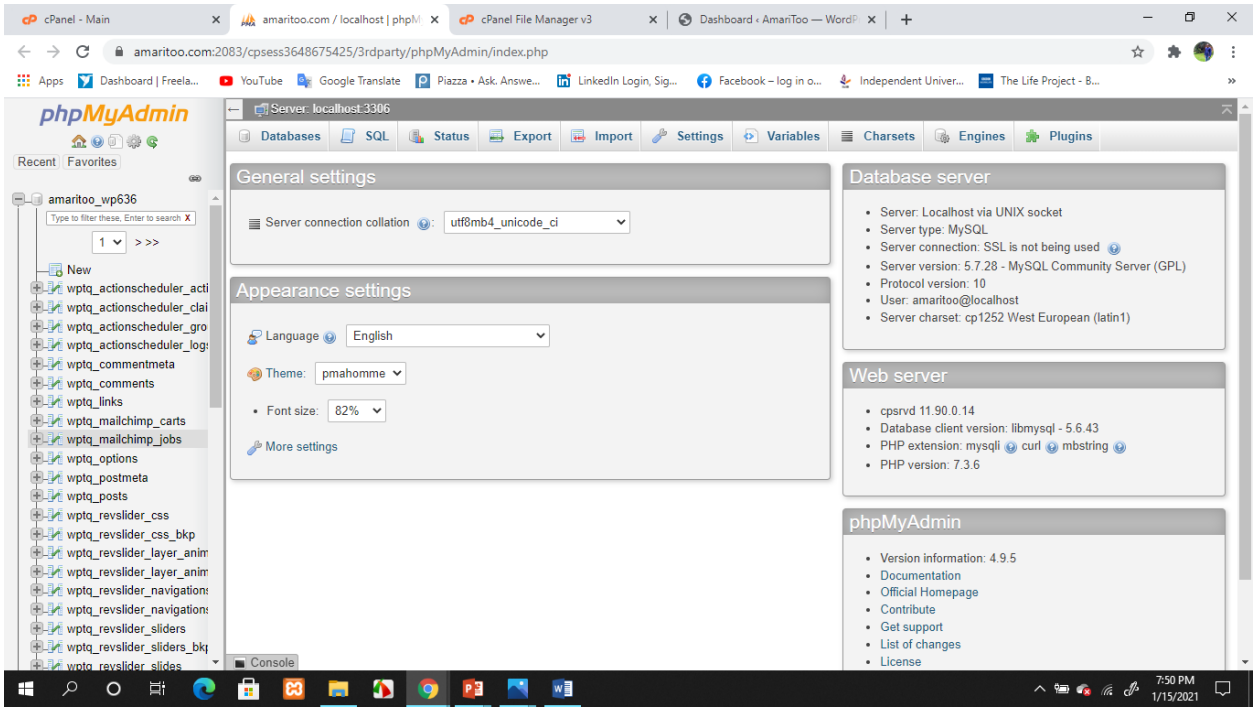

Figure 6.1 Database table of amaritoo.com

6.2 Testing:

Software testing is an investigation conducted to provide stakeholders with information about the quality of the product or service under test. Software testing can also provide an objective, independent view of the software to allow the business to appreciate and understand the risks of software implementation. Test techniques include, but are not limited to the process of executing a program or application with the intent of finding software bugs (errors or other defects). Software testing can be stated as the process of validating and verifying that a computer program/application/product:

- meets the requirements that guided its design and development,
- works as expected,
- can be implemented with the same characteristics,
- and satisfies the needs of stakeholders.

Here I have done all the testing procedures. In the system I have been assigned myself as admin and I have added some products.
Below I've given my testing part:

6.2.1 First Task:

Software company tested me on how I know how to develop, they gave me PSD to make it fully responsive and user friendly for all devices like Desktop, Mobile, iPad. I attach the picture in below:

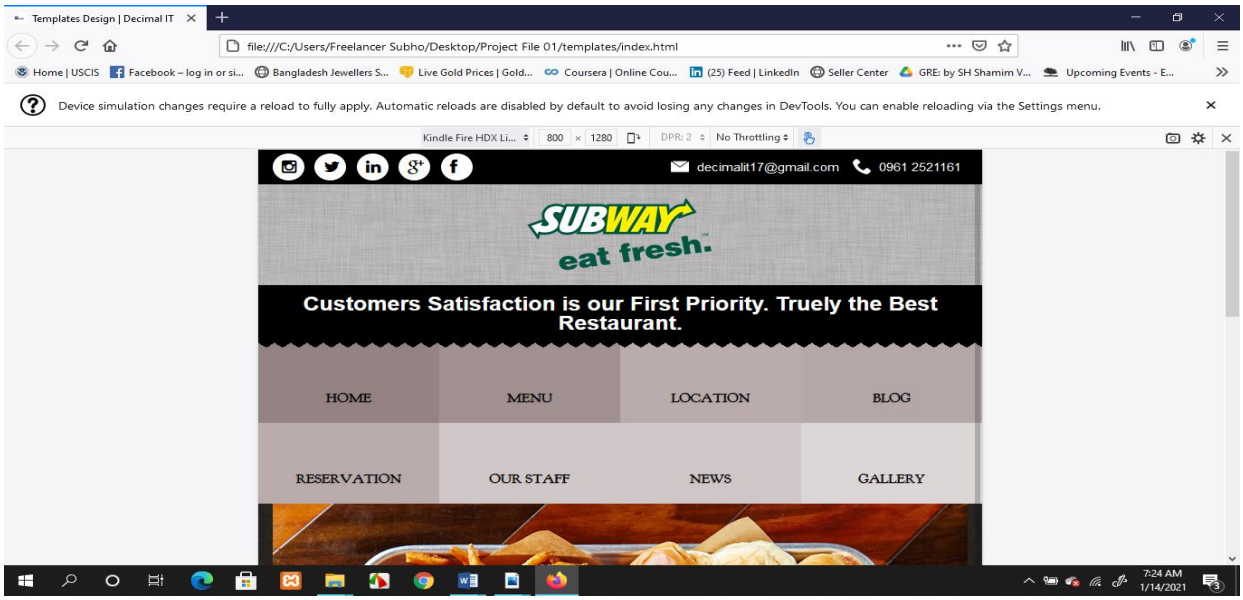

Figure 6.2 Front end responsive design task 1

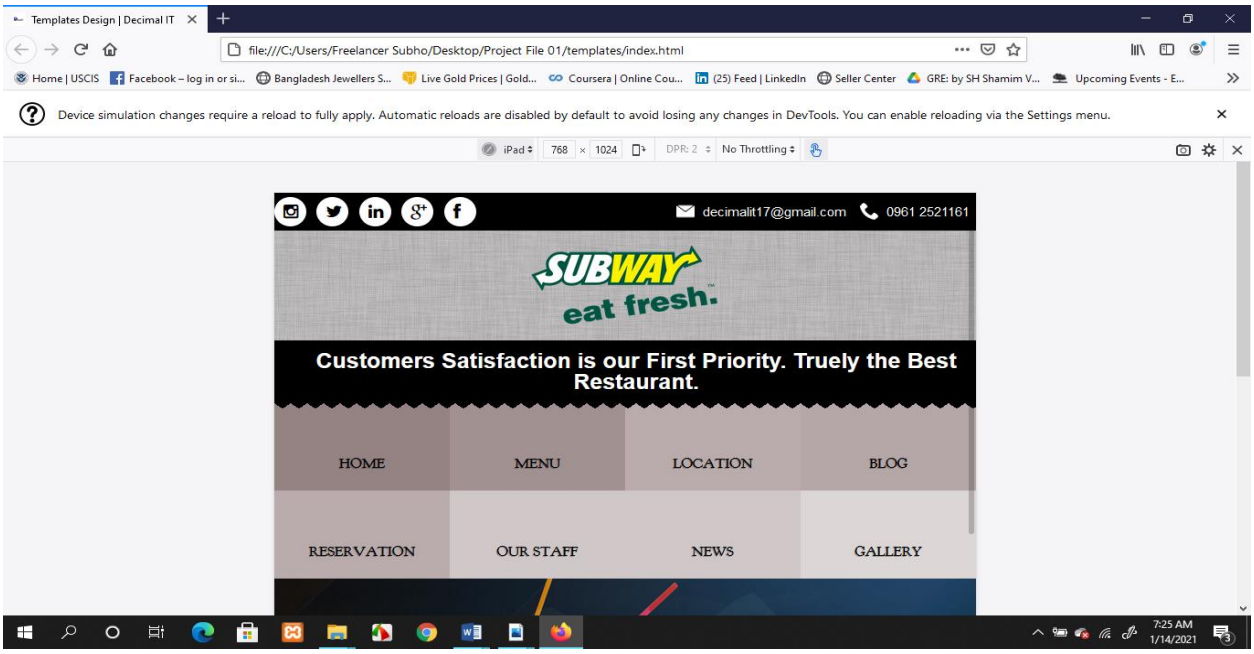

Figure 6.3 Front end responsive design task 1

6.2.2 Second Task: Second Task is given below

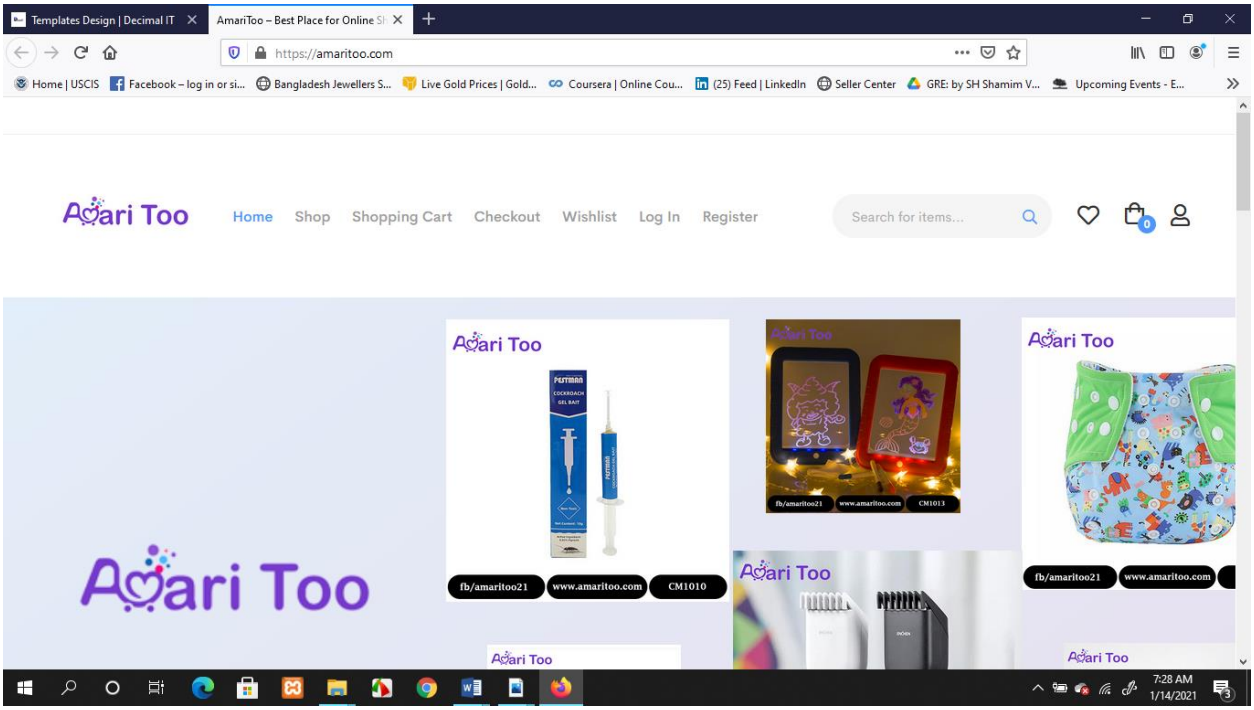

Figure 6.4 Front end responsive design task 2

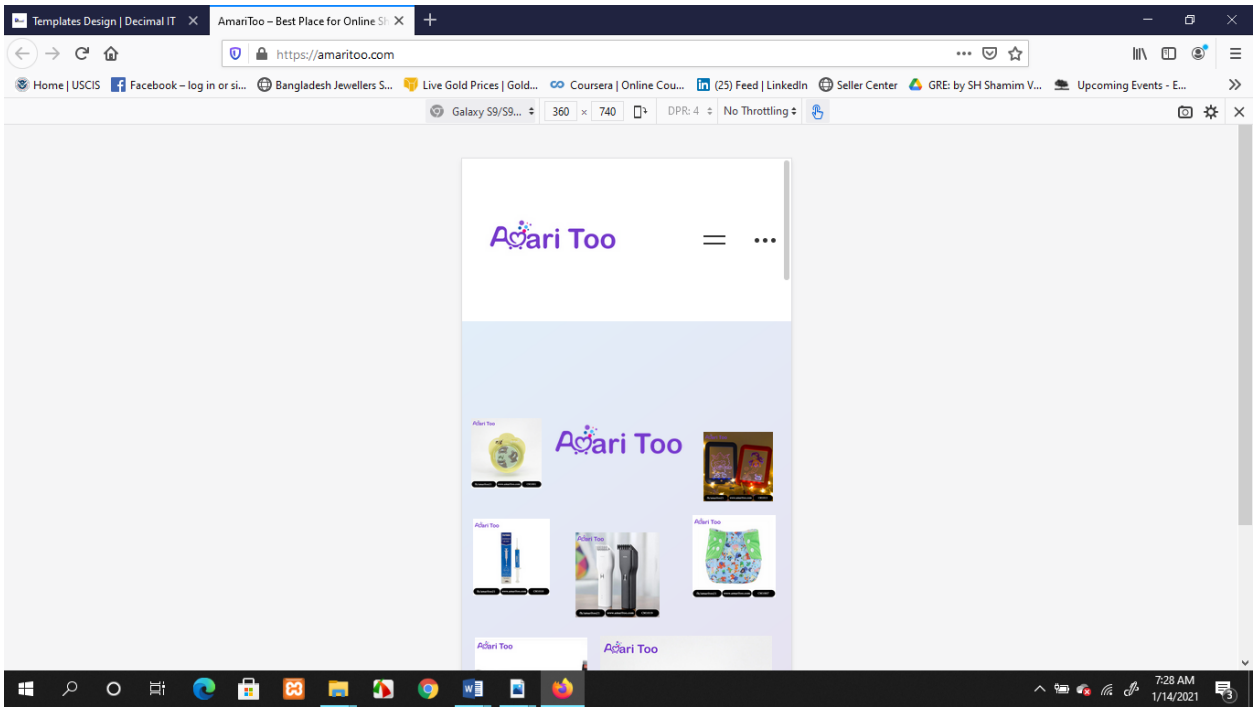

Figure 6.5 Front end responsive design Task 2

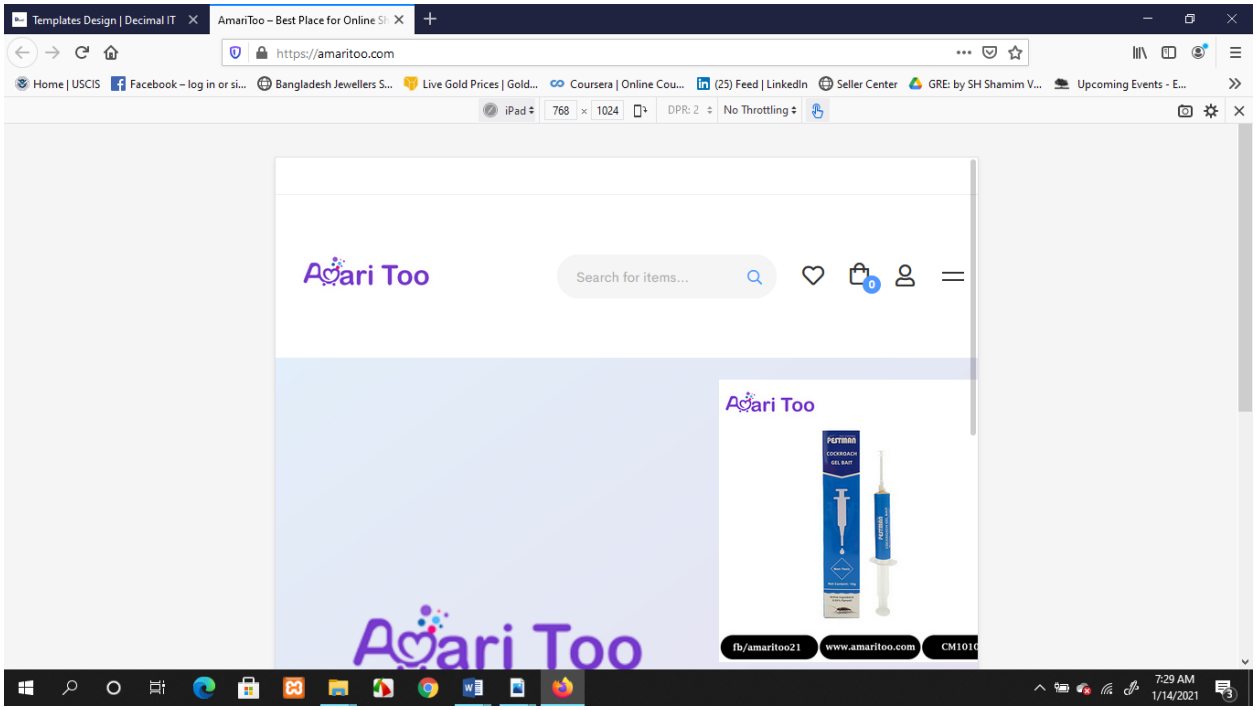

Figure 6.6 Front end responsive design Task 2

Dash Board: From Here admin and sub admin control the whole website. Admin and sub admin can add product.

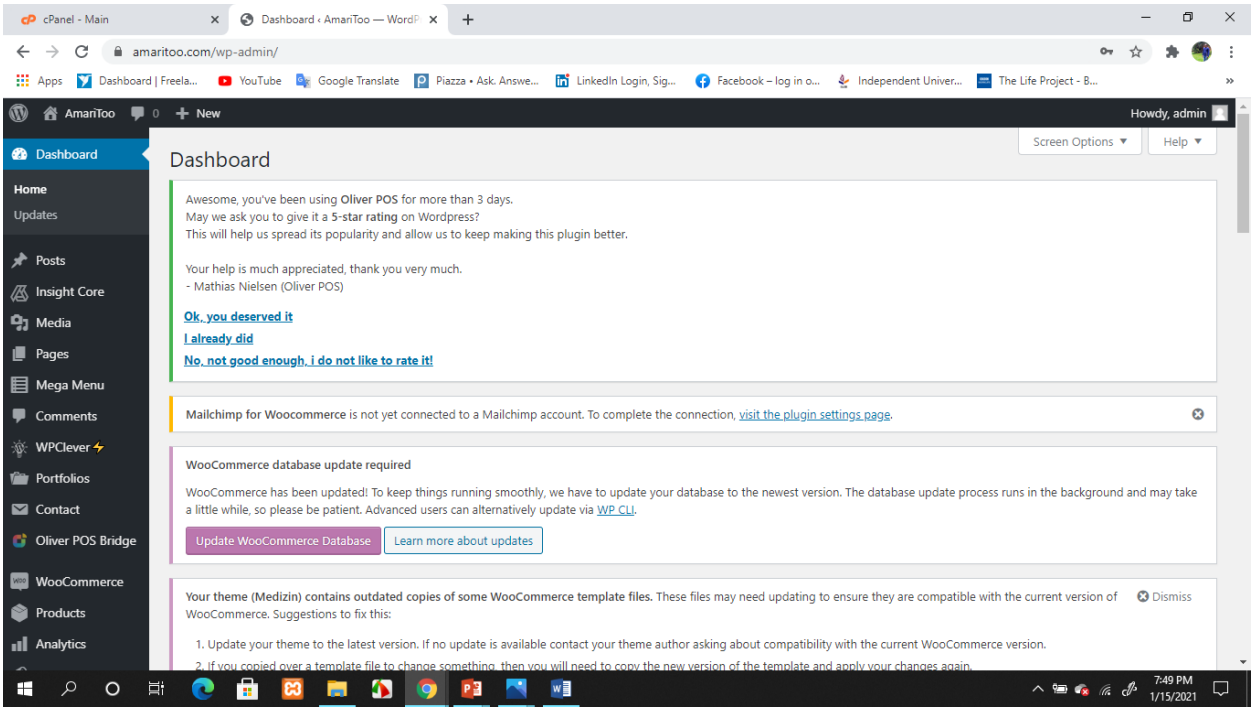

Figure 6.7 Dashboard of Task 2

File: admin can access the file from the server.

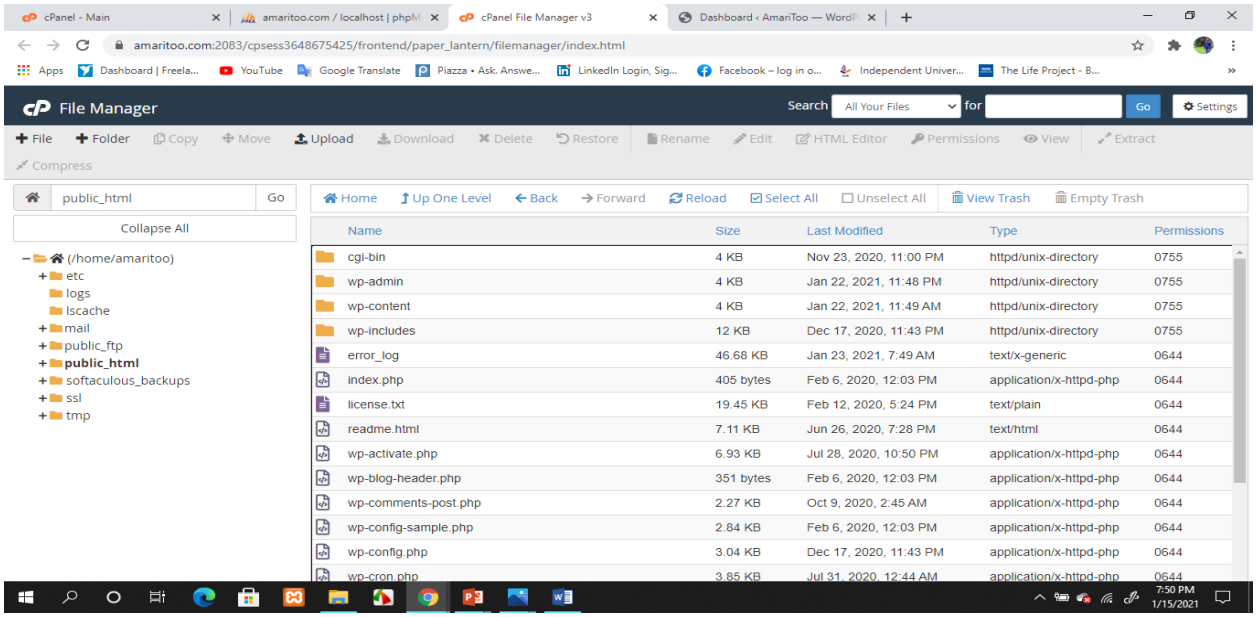

Figure 6.8 all file hosted in live server of Task 2

Registration: Using this form customer can do registration with their personal information, contact information, etc.

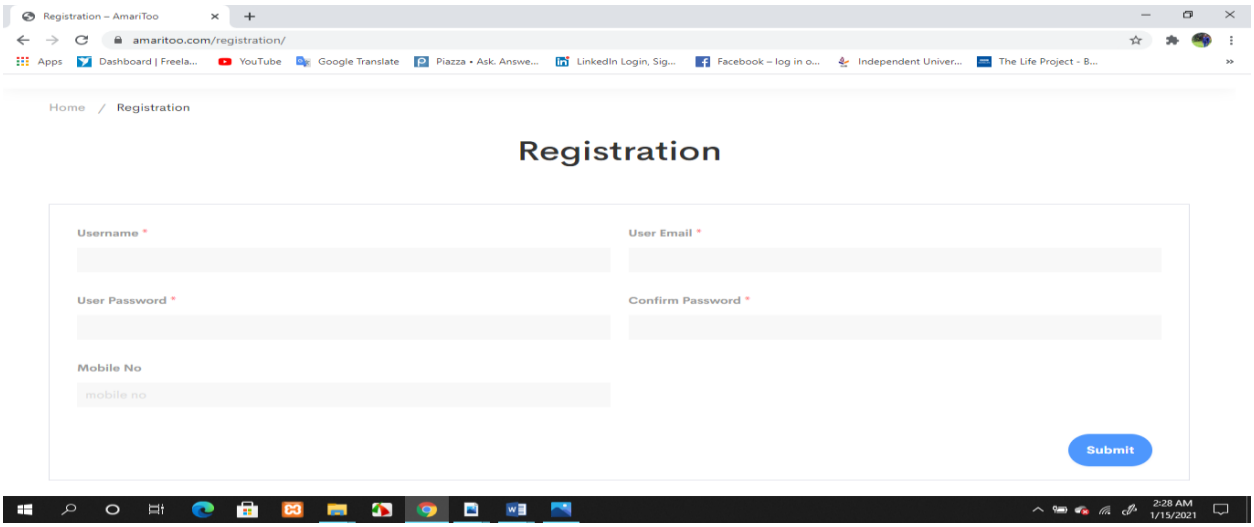

Figure 6.9 Registration form Task 2

Product Upload: From here admin and sub admin can upload product.

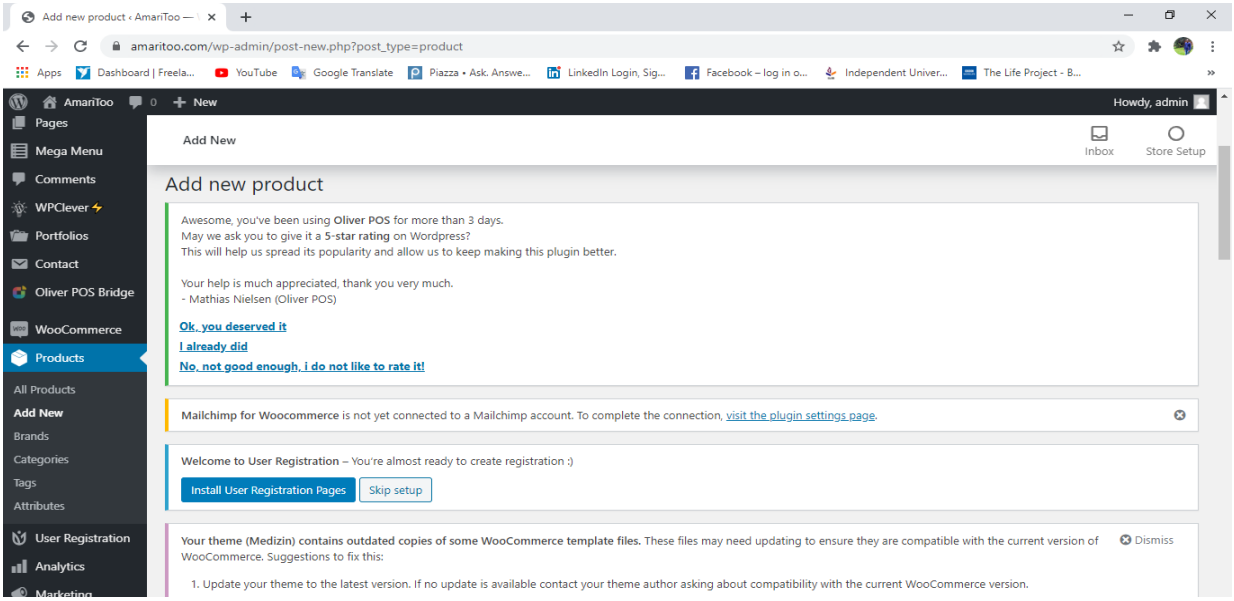

Figure 6.10 Product form Task 2

Coupon Generate: From here admin and sub admin can generate new coupons for products.

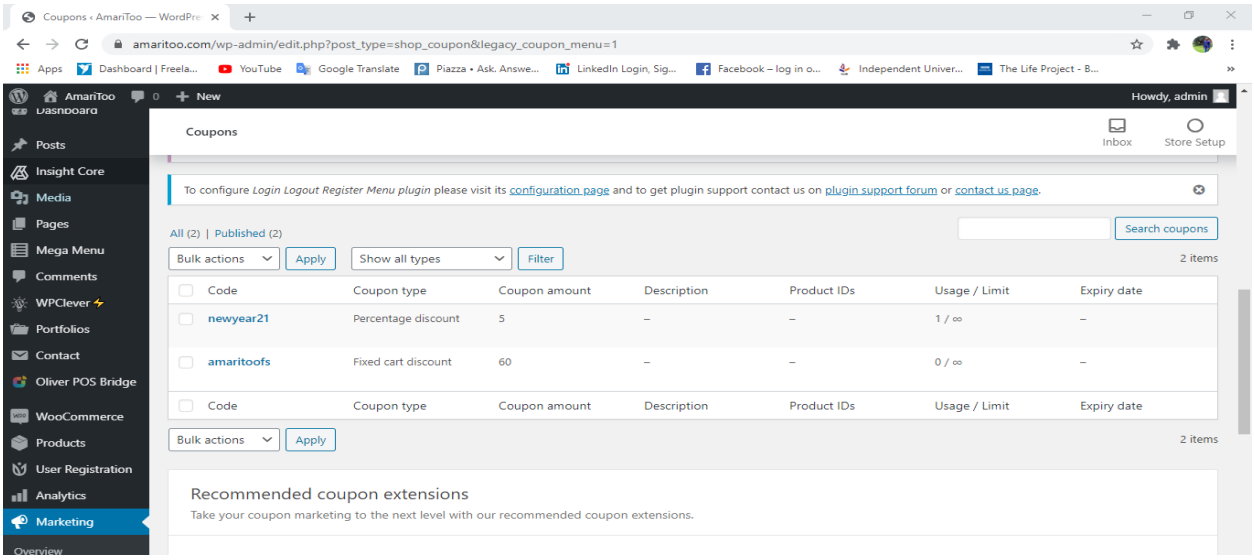

Figure 6.11 Coupon form Task 2

CHAPTER 7

CONCLUSION & RECOMMENDATION

7.1 Conclusion

In the past, having a beautiful design wasn't enough to have a great website. Nowadays, the PSD to HTML5 service eliminates most of the difficulties on the matter. PSD to HTML conversion is an effective way to transform your Photoshop Design file into HTML, CSS and JavaScript code and is quite affordable.

This method offers high quality coding, fast response time and creates websites with a layout that is lightweight and doesn't contain unnecessary tables. These websites offer cross browser support that will work flawlessly. In this article you will find some other benefits that will prove that this method is the best option in front end development.

As a conclusion, I can say that this internship was a great experience. Thanks to Decimal IT again. I acquired deeper knowledge concerning my technical skills but I also personally benefited. Currently, there are huge opportunities available for the students who want to work in this field. Many private and public organizations hire web designers for their online work and website development. With the rapid advent of the online industry, the demand of web designing professionals is increasing and this has created a huge job opportunity for the aspirants in the upcoming days.

Also, an experienced person in this field can also work as a freelancer; there are many online companies which provide online projects to the individuals.

7.2 Future Scopes:

- To work in an IT company.
- Can work as a Web Designer.
- New and improved skills and how to apply them.
- Gain valuable work experience.
- Prepare me for a future career.

7.3 Recommendation:

By using Bootstrap, jQuery, they will be more dynamic and attractive. Where Bootstrap is easy to use and ready-made blocks of code that enables the web developer to create a new website quickly. It is also used for developing web-based interfaces by employing various mobile responsive designs. It utilizes JavaScript (that includes jQuery), CSS, as well as HTML. In other words, Bootstrap can be defined as a grid-based responsive framework that is used to develop responsive, mobile-centric projects.

On the other side jQuery is one tool that offers a great deal of flexibility and power to web designers. This is a JavaScript library that aids in standardizing and simplifying interactions between HTML elements and JavaScript code.

7.4 Limitation of the work:

Web designing is not an easy task. It takes a lot of creativity, uniqueness and brainstorming sessions to come up with a nice web design. Only a web designer can tell about the challenges they go through on a regular basis. There are some other challenges which are faced by web designers. These challenges are about keeping a website responsive enough so that it can be viewed and accessed on all devices. Sometimes websites take time to load, so in order to provide a better user experience, one of the toughest challenges for web design is to make website load faster.

- During this recent pandemic COVID-19 Sometimes we could not go to the office physically and that’s why we had to discuss online platforms and faced some internet issues.
- Due to time shortage for an internship program, the system couldn’t build a proper plan.
- There is no technical senior person in the team so without proper guidance development of this system cost a lot of time and faced a lot of challenges.
- Due to Lack of experience developing this system costs many difficulties.

Recommendation Letter:

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Date: 01 -02-2021

Decimal IT

Rampura Banasree, Block-D, Road-8, Dhaka 1219

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RE: Letter of Endorsement

To whom it may concern,

I am glad to inform that Mr. Subhojit Kumar Bakshi has joined Decimal IT on **11/11/2020** to **31/01/2021** as an intern. He has been working with grace and sincerity since that he has joined Decimal IT. I am overwhelmed to see his dedication and passion towards his work. He was always on time and followed all the rules and regulations. His association with us as very fruitful and I wish him all the best for his future endeavors.

Best Regards,

Mr Mainul Islam

Managing Director

mainul@decimalit.com

Decimal IT

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