INDUSTRIAL ATTACHMENT REPORT

on

Website development using Laravel framework.

A Report Submitted in Partial Fulfillment of the Requirements for the Award of Degree of

BACHELOR OF SCIENCE

in

INFORMATION AND COMMUNICATION ENGINEERING

Submitted by

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APPROVAL

The report on "INDUSTRIAL ATTACHMENT" submitted by Musaddik Habib Shirsho, Roll No: 18511110, Session: 2017-2018 has been approved as acceptable as part of the Bachelor of Science in Information and Communication Engineering degree requirements.

Saiful Islam

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DECLARATION

I hereby certify that the work is my individual research, and that I wrote it from beginning to end. I have adequately documented all information sources used in the paper. The report has never been submitted (in whole or in part) for a degree or certificate at any branch of engineering before.

Letter of Transmit

April 13, 2021

Saiful Islam
Lecturer, Department of Information and Communication Technology

Bangladesh University of Professionals

Subject: Regarding the Submission of industrial attachment report.

Dear Sir,

I'm a lot of thankful to you for introducing here with my " Industrial attachment Report", according to your directions. I have effectively finished my modern connection zeroing in on the Web development using php system (Laravel) as an incomplete culmination of the Bachelor of Information and Communication Engineering program prerequisite. I'm appreciative to you for showing such drive of useful situated training. I attempted with honesty, quickness and energy in assembling the material that contributed towards the readiness of this internship report.

Notwithstanding different deficiencies, I have attempted to follow your suggestions and all the pertinent data that you have assigned me. I made an honest effort to give the most reasonable and significant data accessible. Any insufficiencies or blemishes may emerge. I will welcome for any ideas or suggestions in regard to this report.

Yours sincerely,

_____

Musaddik Habib Shirsho

Batch: BICE-18

Roll: 18511110

Department of ICT, BUP

CERTIFICATE OF COMPLETION

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Figure 1: Certificate of completion from Skoder technologies

ACKNOWLEDGMENTS

==========

To beginning, I'd like to express my gratitude to Almighty Allah for providing me with the opportunity to complete the internship period and write a report in this manner. Despite his skipping supporting, I would never have been able to successfully complete both my intern time and this industrial internship study. I am grateful to my family for their genuine assistance and support during the duration of this project work.

I offer my conclusion of thanks to my entry level position director Mr. Saiful Islam sir, who has been a consistent wellspring of motivation as my understudy tutor. Without his nonstop direction and ideas, this report would have been not even close to fulfillment. My appreciation for his trust and liberality goes stunning. I obliged and appreciative to my learned and loved director for his idealistic character, consideration; urging backing and readiness to help have substantially and extraordinarily improve the nature of my Internship Report and raised to its current unmistakable quality.

The effective consummation of this entry level position report would not have been conceivable without the help and help of Skoder Technologies. I feel colossally honored to have gotten this throughout my intern program.

Because of our associates who helped us straightforwardly or in a roundabout way to achieve our work. We are particularly appreciative to Mr. SK Abir (Chief top dog, Skoder advances), has additionally been a positive and empowering effect on our examination endeavors.

Finally, I want to express my gratitude to Bangladesh University of Professionals Authorities for providing us with the opportunity to pursue this internship opportunity through the course "industrial Attachment." It truly prepares students for official work before they join the corporate sector.

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ABSTRACT

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Crowd content is an online e-commerce-based marketplace where one can buy/sell his/her documents/files/articles in a reasonable price. It houses the world's largest collection of best-practice business papers. These best practice materials were created by a network of hundreds of subject matter experts, the majority of whom are seasoned executives and management consultants with more than 20 years of experience. User can be premium member to access pro features.

I have achieved some new skills and improved some skills. Some achievements from this industrial attachment are- depth knowledge in PHP/Laravel with using of API (Application Programming Interface) and Laravel package. CRUD operations in Laravel controller. Upload or commit code in GitHub. Upload website in cpanel. Expand Networking by conducting meeting with clients. Got practical experience in software industry. And also got to know about working ethics and many more.

While developing the project, there came off some shortcomings. As the shortage of data, the user may face the problem in findings the right documents. There may consume some extra time to load some pages for the newcomers. Browsing may seems hard for some users.

As user interface design plays vital role for user experience and SEO (search engine optimization) ranking, that's why we spend a quality time site design and responsiveness. From the beginning the project is divided into some modules with a tie range to implement the features. Some functionalities depend on others. So, firstly the major functions have implemented. The activities that the author worked in unquestionably helped him by expanding his viable information profundity. The innovative work projects were generally useful in widening his perspectives in regard to various web application improvement structures.

Project Objectives:

As it is an e-commerce-based site, so there was a lot of minor and major task in the whole project. After assigning in this project, there were many objectives I had to fulfill. Some major objectives finished by me are given bellow to demonstrate my contribution in this project.

1. Login by google, Facebook account. Laravel socialite package has been used.
2. Create a admins using super admin. CRUD operations implemented.
3. If desired documents/Product is absent in website, they can request for that product. Laravel mail functionality has been used.
4. Free Download feature.
5. Rating & feedbacks of individual documents and make it visible to all products.
6. Newsletter subscription functionalities in frontend and notify admin.
7. Admin can create new admins, banner and logo can be changed from admin side.
8. Implementation of FAQ, about us, contact us pages.

SECTION 1: OUTLINE

==========

1.1 CONTEXTUAL

Internships are formal projects intended to give functional involvement with genuine climate to understudies who are new to field. Temporary jobs help to fabricate skillful resume by giving understudies noticeable work insight. Despite the fact that schools and colleges help understudy in finding the correct Internship programs, it is the duty of the eventual assistants to painstakingly analyze temporary job projects and check whether those projects really offer the preparation they need.

There is no predictable span for how long an Internship program keeps going however normally an Internship is the time of three to a year. During this period understudies have the chance to

investigate their field of revenue, discover what future they are plunging and whether their ranges of abilities match their way of profession.

The main target of this paper is to gain the knowledge of the overall system of an organization especially “Skoder Technologies” as well as gain professional skills & knowledge on organizational associated endeavors to implement them in near future.

The preeminent goals of entry interns are:

- To examine the ICT area in corporate framework in Bangladesh.
- To set out open doors and create abilities in the field of interest.
- To get fundamental business-related insight and building solid resume for splendid profession
- To create business contacts for example making network contacts.
- To give a few supports to the improvement of my own exhibitions.
- To give pertinent comments and future program bearings.

1.2 RESOLUTION OF INDUSTRIAL ATTACHMENT

The internship program gives students with a fresh viewpoint. It expands learning opportunities beyond the course's core curriculum and university classroom events. These prospects help students improve their ability to apply theoretical knowledge to real-world situations, which helps them achieve their academic and career goals.

Internships help students grow their careers in a variety of fields such as coding, programming, networking, and so on by offering valuable field work knowledge that lets students to explore their areas of interest and improve applicable abilities and aptitudes.

Internships offer a unique opportunity for organizations to educate new talent, improve their professional development, and assist intern mentors/supervisors in their professional development. Interns can also help an organization identify new workers.

1.3 OPPORTUNITY OF THE INDUSTRIAL ATTACHMENT PAPER

This report is to satisfy the necessity for modern connection. This paper has covered up the immediate and aberrant parts of programming and site improvement industry and their difficulties.

This report gives a knowledge of the experience that Author accomplished from my working environment. A short portrayal of 'Skoder Technologies' is incorporated so the experience can help other people to think about the organization and may help in future to pick this organization and may choose whether it is reasonable for them or not. Temporary position assists with feeling the genuine corporate life all the more intently and to assemble information. To accomplish this significant objective task-based work is the principle approach to assemble more insight. Till composing this report, I have finished first stage and aided in building up the https://crowdcontent.co/site. The course of events, undertakings, aftereffects of this venture are incorporated to imagine the entire mechanical connection time frame more clear.

1.4 PROBLEM EXPLANATION

In today's world, with so much dispersed knowledge, there are so many challenges and the need to make the right choices in a short amount of time. Client demands for feedback differ, and it's often difficult to include expert solutions across a wide range of criteria in a consulting company. To address this issue, the CrowdContent marketplace was created. CrowdContent investigates, selects, and puts at our disposal the best of the best to help the user be successful in their work.

Our online marketplace of industry best practices is the CrowdContent Marketplace. It houses the world's largest collection of best-practice business papers. These best practice materials were created by a network of hundreds of subject matter experts, the majority of whom are seasoned executives and management consultants with more than 20 years of experience.

1.5 CONSTRAINT OF THE REPORT

I encountered some limitations while preparing this paper. Regardless of the limitations, I attempted to create an engaging report by incorporating data and explaining the functionalities.

The following are the report's overall limitations:

- Since some information was considered to be classified for security purposes, there were some limitations on revealing it. As a result, the author was unable to include them in this article.
- Some of the knowledge obtained from secondary sources was not organized consistently by the author.
- The author was unable to provide or reveal any details in the study due to organizational confidentiality.

SECTION 2: SKODER COMPANY SUMMARY

==========

2.1 OUTLINE

SKODER is an Information Technology Support company launched in 2018.

Over the years, we have helped many Startups along with enterprises to start and accelerate their business and make an impact on the world.

Our main objective is to support the growing ideas that solves our day-to-day problems. People working on these issues may not technically that much sound. We view the solutions in a technical point of view and enrich those ideas into masterpieces.

Skoder Dev is an ever-expanding group of driven and brilliant individuals. This outstanding team has all of the answers to their customers' most difficult problems. The activities of this business are accessible both onshore and offshore, and they are delivered with pride and enthusiasm. This

company is made up of a community of young, inspired, and professional individuals whose main focus is to provide creative web and software development solutions to their clients.

About Skoder:

- ❏ Skoder Lab
- ❏ Skoder Dev
- ❏ Skoder Studio
- ❏ Skoder Media
- ❏ Skoder Go
- ❏ Skoder Remote
- ❏ Skoder Market
- ❏ Skoder Connect

2.2 CONTACT DETAILS

Organization: Skoder Technologies

Address: Road-9, Avenue-3, house-632, A-1, Dhaka-1216, Bangladesh.

Email: contact@skoder.co

Phone: 01521494166, +880 1750-726094

Website: https://www.skoder.co

Official Logo:

Figure 2: Official Logo

SECTION 3: BREAKDOWN OF ACTIVITIES

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3.1 ORGANIZATION SELECTION

It is vital to choose association that satisfies our destinations. All things considered for our temporary job, it is important to choose association where there is learning climate on the grounds that as an understudy our first rationale is to figure out how the functions are completed in the genuine field.

The four-year level of BSc. permits us to achieve information on different parts of Information Technology. Entry level position program acquaints the understudies with the expert world. As the IT world is an immense territory to deal with, that is the reason Among the different standards and areas gave to us in temporary job essential articulation, programming Development Company was picked. Numerous organizations were shortlisted and drawn closer out of the association with great climate.

Skoder is an IT organization that covers site improvement, programming advancement, AI, IOT, research work. Business applications arrangements utilizing present day advancements and other web related frameworks. The organization assisted me with acquiring wide insight by getting me associated with their tasks.

3.2 INTERVAL PERIOD

Start Date: 10 February 2021

Duration: 5 weeks

Position: Web Developer Intern

Supervisor: Mr. Saiful Islam sir (Lecturer, Bangladesh University of Professionals)

Working Hour: 09:00 am – 6:30 pm

Completion Date: 17 March 2021

3.3 ROLES AND OBLIGATION

During the internship, participants explore a variety of platforms and programming languages. The aim was to create a fully functional web-based system using various tools and frameworks such as PHP (Laravel).

During the internship period php framework (Laravel) has been implemented more deeply. As a result new features of Laravel has been learnt for developing this project. Laravel authentication, sending mail to multiple users and CRUD (C = create, R = read, U = update, D = delete) features has been implemented more vastly. Core php knowledge is prerequisite before advancing to Laravel. Mysql database and query knowledge is also very much important to fetch data from database. Daily meetings with the Supervisor and discussions with advisors aided in broadening my understanding of the current structure and problem history. The Skoder Developers Company provides software development as one of its main services. Skoder Developers offers versatile and scalable software (web-based or desktop-based) solutions to meet the needs of small and large businesses.

3.4 Crowd content (Project Overview)

Crowd content is an online platform that allows users to locate necessary documents and sell their valuable files/documents/articles to others in a secure and quality-assured manner. The best practice, suggestion, and documents in business will help a consumer grow his or her business.

There are some categorizations of users. Normal customers and premium members. Customers can buy their products by registering in crowd content. For premium members referral discount feature is also available. Library is a pro feature which can use only the premium members.

Subscription can be achieved in some categorize. 'Individual' subscription is only for one person. It is counted as monthly and download count limit. 'Team' subscription has made for a team consisting of 5-10 members. And lastly the big package 'Firm' package is for people of 15-20 persons in a firm.

A regular customer can be an author. Author can write blogs in crowd content website. Moreover, a customer can also sell their product/files/articles/documents here. Crowd content helps the seller to find his customer and sell the document with a feasible price.

The payment method is very easy and user friendly. After a successful transaction buyer/seller can pay the amount using mobile banking or cards or internet banking system. Mastercard, debit card and visa cards are available for card transaction. For our local mobile banking system, bkash, rocket. Nagad, t-cash are available for secure and successful transactions.

If a user doesn't want to be crowd content member but he finds his documents in our site and he wishes to buy that. Then there is free download feature where he/she can download the free documents/files just by giving name, e-mail & job information.

Crowd content values the user satisfaction and information security. The information is safely stored using encryptions methodology. We store data to give better user experience in future. A user can request for his product if it is not found in website. User can also review a product and help others to choose the best documents/files.

There are a lot of sites which does nearly same job. So, there might be a question that "Why crowd content?". The answer is crowd content ensures files/documents' quality. The file will be checked before uploading to the site. Crowd content supplies necessary documents in a short time to a vast customer. It is a reliable platform for best practices.

3.5 CREW MEMBERS

For the project, author has been paired with Touhedul Islam Ratul, my senior programmer. He gave me introductions so that the author could grasp the project in a short amount of time, and he also assigned me the problem to solve. Without his guidance, the author would not be able to complete the project.

3.6 POSSIBILITY AND PROGRESS TACTICS

The possibility of the project is to build crowdcontent.co website. The main motive to build this website is to provide documents/files/PowerPoint slides/business documents etc. at a reasonable price to by ensuring document quality.

The advanced admin panel was created to keep track of users and manage all administrative tasks. Different admins have different roles, which are done by the super admin. Laravel is used to generate all of the web APIs, and MYSQL is used as the database. Super Admin can create admins with limited administration power. The transactions are monitored in admin panel. Test cases are written in such a way that they cover all of the relevant field validations as well as database validations. Following the development of the application, the subsequent test cases are run alongside a couple of runs, and any bugs found are fixed. The finished product is shipped after the testing is completed.

3.7 WORKING SCHEDULE (WEEKLY)

Task	Details	Start	End

Meeting	First Meeting	15.02.21	15.02.21
FAQ, about us, contact us page implementation	Overall feedback sends	16.02.21	18.02.21
Front-End Development	Homepage Design	16.02.21	18.02.21
Request for products	If desired documents/ Product is absent in website, they can request for that product	18.02.21	20.02.21
Necessary Meeting		19.02.21	19.02.21
Finding Template	Choosing templates of Crowd Content library	19.02.21	20.02.21
Modify quotation	Send email to admin	21.02.21	23.02.21
Front-End Development	Crowd Content Library (HTML)	21.02.21	22.02.21
Feedback from customer	Create a FAQ, about us, contact us page and make it dynamic	21.02.21	23.02.21
Necessary Meeting		23.02.21	23.02.21

Front-End Development	Crowd Content Library (CSS & Bootstrap)	23.02.21	25.02.21
Admin CRUD	Create a admins using super admin	24.02.21	25.02.21
Rate & feedback, for individual products & view reviews	Rating & feedbacks of individual documents and make it visible to all products.	25.02.21	28.02.21
Front-End Development	Crowd Content Library(JavaScript)	26.02.21	27.02.21
Social Login	Login by google, Facebook account	25.02.21	02.03.21
Newsletter subscription, Product request	Newsletter subscription functionalities in frontend and admin panel	03.03.21	07.03.21
Admin create, banner change, logo change	Admin can create new admins, banner and logo can be changed from admin side	08.03.21	15.03.21

Figure 3: Working timetable

SECTION 4: SYSTEM ANALYSIS & USED TECHNOLOGIES

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SOFTWARE CONFIGURATION & TOOLS USED

The project is split into two sections: front end and back end. Front end deals with user interface. And for user experience, backend technologies work for data fetching, query building, security and many more.

4.1 FRONT END:

CSS, HTML 5, Bootstrap 4, and other technologies were used to build the front end.

4.1.1 HTML

HTML elements are the components that make up HTML pages. Images and other artifacts, such as interactive forms, can be inserted into the rendered page using HTML constructs. HTML allows you to create organized documents by affirming structural semantics for text elements such as titles, paragraphs, lists, links, citations, and other elements. Tags, enclosed in angle brackets, separate HTML elements. Tags like <img /> and <input /> add content directly to the page. Other tags, such as <p>, surround and include information about the text in the document and may include sub-elements of other tags. Browsers don't display HTML tags; instead, they are used to interpret the content of the page.[6]

4.1.2 CSS

Cascading Style Sheets (CSS) is a style sheet language for defining the appearance of a document written in a markup language such as HTML. Along with HTML and JavaScript, CSS is a key component of the World Wide Web.

CSS is designed to improve substance introduction and division, count formatting, colors and text styles. This division can advance substance availability, provide greater adaptability and control in determining introduction characteristics, allow multiple web pages to share the organization by indicating meaningful CSS in a split .css record reducing complexity and complexity. Redundancy

within the main substance, as well as allowing the .css record to be cached to advance page stack speed between pages sharing the record and its layout. [5]

4.1.3 JAVA SCRIPT

JavaScript could be a programming or scripting dialect that allows you to perform complex highlighting on web pages; Whenever a webpage doesn't just sit there and display inactive data for viewing, it shows helpful substance reviews, intuitive maps, enhanced 2D / 3D graphics, peek at video jukebox, etc., you'll bet JavaScript is likely to be included . It's the third tier on the layered pie of standard web innovations, two of them (HTML and CSS) that we've secured in much more detail elsewhere in the learning spectrum. [1]

4.2 BACK END

Laravel is used to authenticated login, data mining, sending data to the server and fetch the data in need. Besides, JSON, AJAX, are used to preprocess the data. MySQL, which is used to construct databases, is used to design the back end.

4.2.1 Laravel:

Laravel is a web application technology with a sophisticated and descriptive syntax. A web interface provides the application structure and a starting point, make sure you focus on doing something great while managing information.

Laravel aims to provide such a fantastic development experience while offering advanced features including full dependency injection, an interactive database deployment layer, scheduled queues and tasks, module, integration and system testing, and much more.[2][4]

4.2.3 MYSQL

MySQL is a SQL (Structured Query Language)-based relational database management framework. Data storage, e-commerce, and logging systems are only a few of the uses for the technology. However, the most popular use of mySQL is as a web database. It can hold anything from a single piece of data to an entire inventory of available items for an online store. Or used in conjunction

with a scripting language like PHP or Perl. It is possible to build websites that communicate with a mySQL database in real time to show grouped and usable information to website visitors.

4.3 SPECIFICATION OF THE HARDWARE

Processor: Intel core i5 8th generation

Hard Disk: 756GB

RAM: 8GB

4.4 DATA PREREQUISITE

The query to the database is one of the inputs, and the answer to the query is one of the outputs. The consumer also receives information about their accounts as one of the outputs. In this project, the inputs will be user-generated queries such as "build an account," "be a premium member," "make payment," and so on. When a user requests information about their account from the server, such as the time, date, and sum charged, or a wish list, the performance will now be available.

4.6 PRACTICABILITY ANALYSIS

A feasibility analysis evaluates a system plan for its organizational viability, ability to satisfy consumer expectations, and efficient use of resources. The aim of the feasibility study is to get a sense of the problem's complexity rather than to solve it.

4.6.1 METHODOLOGICAL FEASIBILITIES

For any type of program or website, technical viability is critical. Taking this into account, crowd content is created by making the necessary resources more accessible for system creation and maintenance. The organization has all of the tools that are used or needed for production. We are making use of the resources that are already available to us.

4.6.2 COSTING FEASIBILITIES

This application's development is cost-effective. The company did not have to spend a lot of money to implement a similar system that was already in place. The only thing left to do is create a conducive atmosphere for growth under effective supervision. We would be able to maximize the

usability of the corresponding services if we do so. The company will not be able to invest more in the organization even after it has grown. As a result, the system is financially viable.

4.7 DATABASE DESIGN

A database schema is defined as a collection of instructions for creating, implementing, and maintaining a company's database management systems. Database design's main aim is to construct physical and theoretical manifestations of the required data model. The database structure used for preparing, storing, and managing information is defined by database design. Only a database designed to hold only useful and essential information may achieve data accuracy.[3]

4.8 USER INTERFACE DESIGN

User interface (UI) design, also known as user interface engineering, is the process of creating user interfaces for machines and apps, such as computers, household appliances, cell phones, and other electronic devices, with the aim of increasing usability and improving the experience for users. In terms of achieving user goals, the purpose of user interface design is to make the user's interaction as easy and effective as possible (user-centered design).

It is easier to complete the mission at hand with great application creation because it does not draw too much attention to itself. Graphic design and typography are used to promote the usability of the interface, affecting how well the user conducts such experiences and enhancing the design's visual impact; design aesthetics can improve or remove from users' capacity to use the interface's features.

4.9 EXHIBITING SYSTEM

A requirements model is made up of many of these diagrams, each focusing on a different aspect of the users' requirements. It concentrates on the external actions of the device rather than the internal design.

4.9.1 USE CASE ILLUSTRATION

The use-case diagram depicts the user's and admin's activities. And the way they're portraying their characters. The following diagram depicts the system's key features, despite the fact that the entire mechanism is vast and complex.

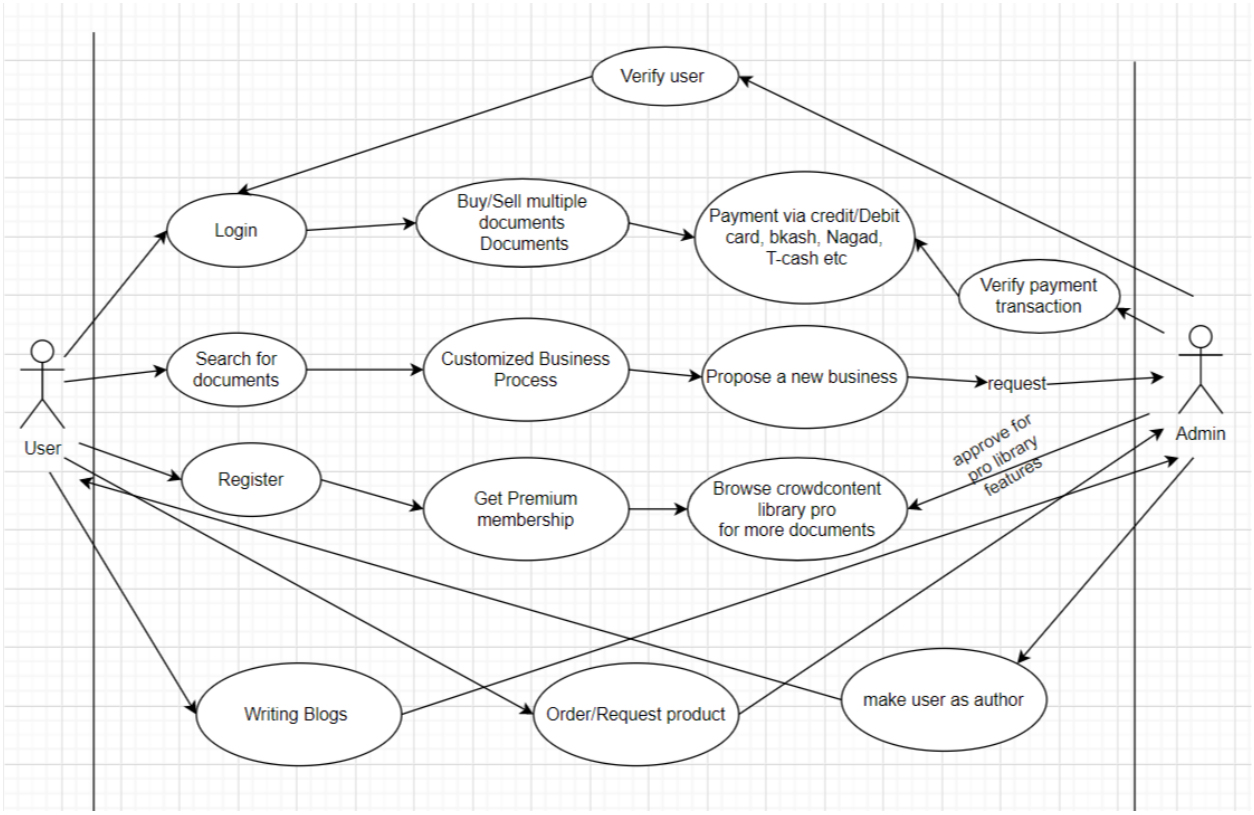

Figure 4: Use case diagram of crowdcontent

SECTION 5: SYSTEM DESIGNING STRATEGY

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5.1System Features

The whole software ecosystem is defined in details bellow:

5.1 User Application Features:

5.1.1 Registration and Login

The users need to register with their details and get verified. There are two types of users: Freemium and Premium users. Freemium users will create accounts and get access to the features without library. On the other hand, Premium users will create accounts and get access to the features with library.

5.1.2 Dashboard Management

User dashboard will contain all the details of user with the web app like previous purchase, uploads, experience and other details stuffs.

5.1.3 Browse and Search

User will be able to search with categories.

5.1.4 Browse and Purchase

User will be able to purchase the documents according to their needs.

5.1.5 Details about Crowd Contents

The user web site will contain all the information of Crowd Contain and Skoder Technologies logo. The logo should not hamper the core functionality of the terms and conditions. There will be a logo of Skoder as IT partner at the end of the footer or in the About Crowd Content page as for example. This will make a better relationship between Skoder and Crowd Content.

5.1.6 Terms and Conditions

The users will be aware of terms and conditions of Crowd Content in the application page.

5.1.7 Rate and Feedback

The users can rate and give feedback in web application about his experience.

5.1.8 Purchase Business Toolkits

User will able to buy any kind of business toolkit according to categories. They can search and find any kind of toolkits.

5.1.9 Upload Documents for Sell

Premium users can upload business documents and they can sell that documents as well.

5.1.10 Virtual Library

Premium users can read the virtual library, but freemium users cannot read virtual library.

5.1.11 Business Process Contact

User can request for business process development service. It's a service provided by Crowd Content team. User will fill up the form and request for a business process.

5.1.12 Free Download

Admin can set enable the free download option to let the users download the documents free.

5.2 Admin Application Features

5.2.1 Registration and Login

The super admin login credential will be given by the developer company.

5.2.2 Approve and Manage Files

Admin will approve all the files and will manage them.

5.2.3 Rate and Feedback

Admin will get any kind of feedback and ratings in the Appstore.

5.2.4 Purchase Details

Admin will keep the detailed documents of purchase.

5.2.5 Business Toolkits Management

Admin will categorize all the toolkits for the users.

5.2.6 Manage Blogs

Admin can manage blogs when it needs.

5.2.7 Business Process Requests

Admin will get the desired business process development application by the users.

Section 6: Result & Discussion

==========

6.1 Acquired skills through this project.

Before proceeding to this project there are some pre-requisite skills and some skills are gained during the project. Basic knowledge in php, mysql, xampp server, Laravel fundamentals, CRUD operations, model-view-controller knowledge, html, css, javascript are some pre-requisite skills

needed to start the project as an developer. As I already had these primary skills, it was easy for me to dive into advance features in these technologies.

Some new skills had to be learned during this full internship period. As the maximum objectives are Laravel coding based, some Laravel package functionalities had to learn. Laravel socialite package is one of them. Laravel socialite package functionality allows the user to login with their social accounts (google, facebook, twitter, github etc.). besides this, Laravel mail functionality was also had to learn. Laravel mail enables the user to send mail to admin and vice-versa. Mail functionality is encrypted and authenticated. To work in a synchronized way, github is the best option to work remotely. Github commit, upload and github desktop app features had to learn. A website must be published to be used by mass users. To make the site live, a domain has bought, and the site was uploaded to cpanel.

For professional skills, networking is mandatory. This internship increased networking skills. After developing the site, there was a meeting with the client. Where the progress update was presented which grew communication and presentation skill.

6.2 DATABASE SCHEMA

A database schema is a modular framework that describes the logical view of the database. It defines how data is organized and how relationships are established among them. It defines all of the data restrictions that will be implemented. The schema describes the entities in a database schema, as well as their relationships. It contains a database summary that can be visualized using schema diagrams.

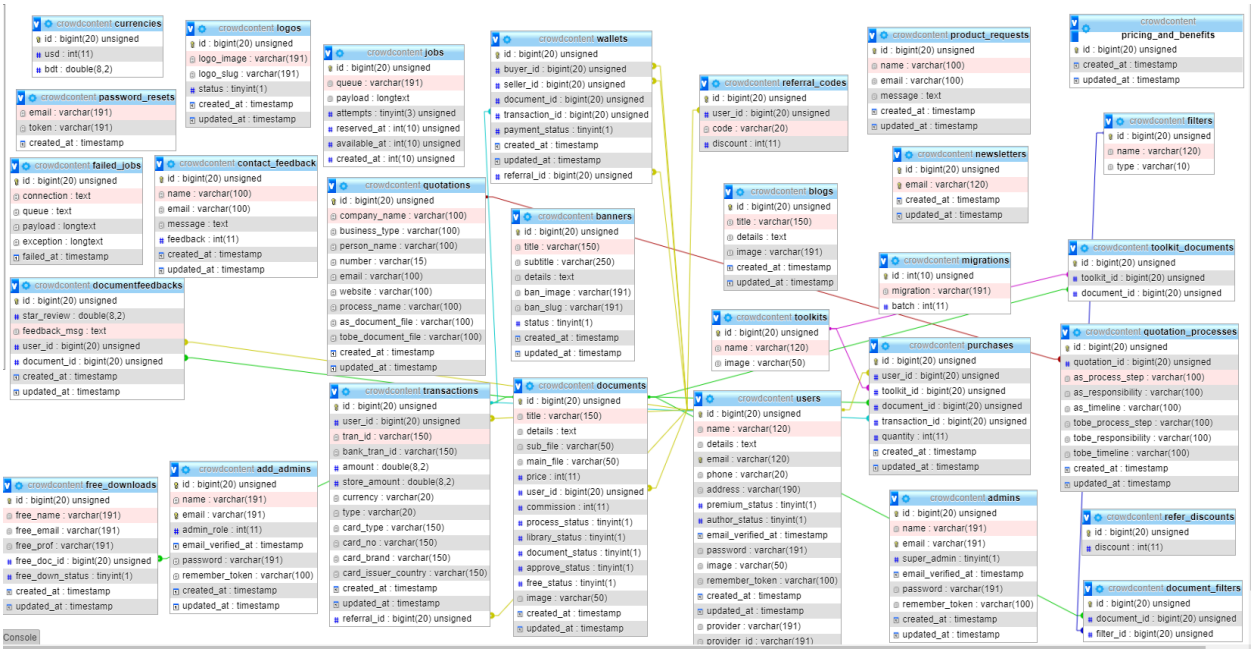

Figure 5: Database Schema

6.3 User Interface Layout

The outlook creates user satisfaction for the website. However, system performance also plays major role. Crowd content UI is designed considering good user experience and demand. The outlook is simple and easy. Anyone can browse the whole UI environment. However, there plays a lot of backend function to provide the user best experience. The layout pictures are attached bellow to give a small idea about crowd content.

6.3.1 HOME PAGE LAYOUT

This is home page or the 1st page of website. This page contains few documents/files from process and documents page to advertise. Recently added documents and toolkit is also shown here using slider. A blog section is also visible written by authors. 'View All' button will redirect to all blogs page to see more blogs in crowd content. Some samples of toolkit documents are also shown. But there is always more to discover. Author section shows top authors in crowd content.

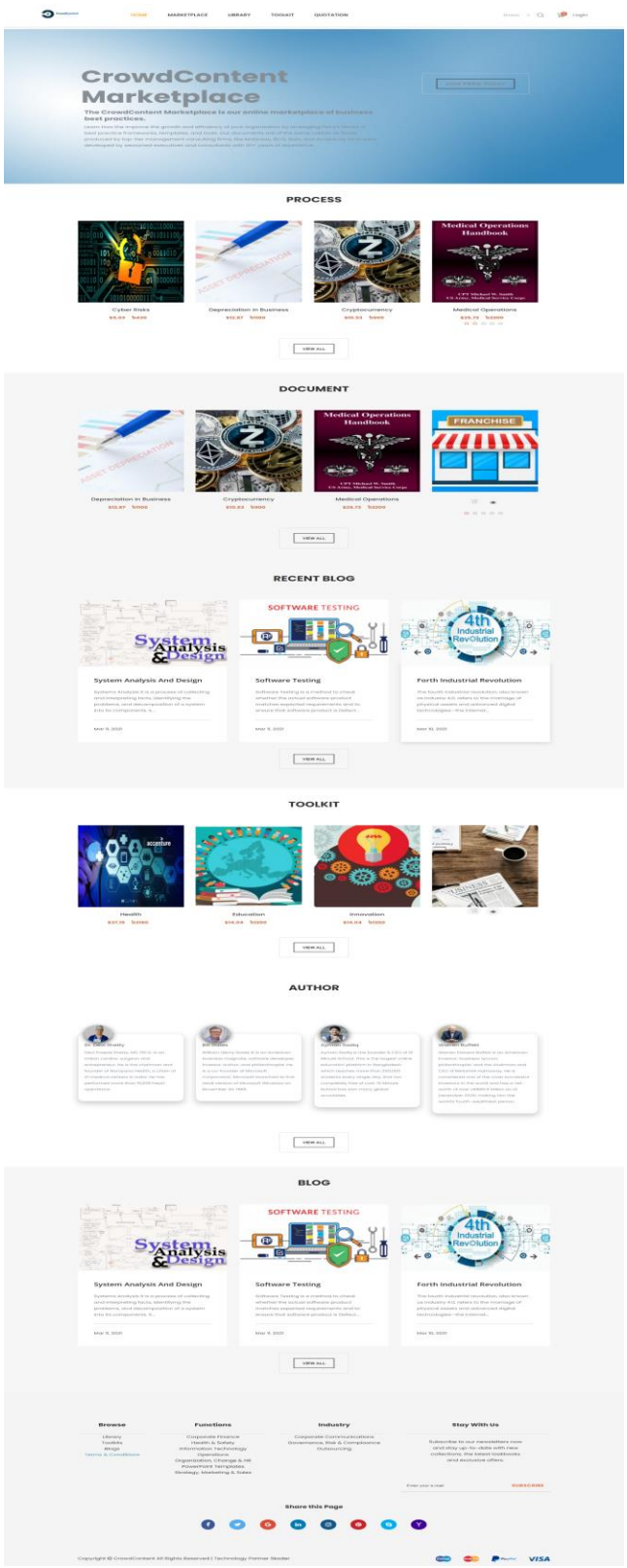

Figure 6: crowd content Home page

6.3.2 MARKETPLACE

Marketplace tab contains documents and process subtabs. These two pages are visible for all kind of users (premium/ non-premium). Free documents/files/articles can also be found in these pages.

To download the free documents user has to provide his/her name, job & email. Documents page sample is given bellow.

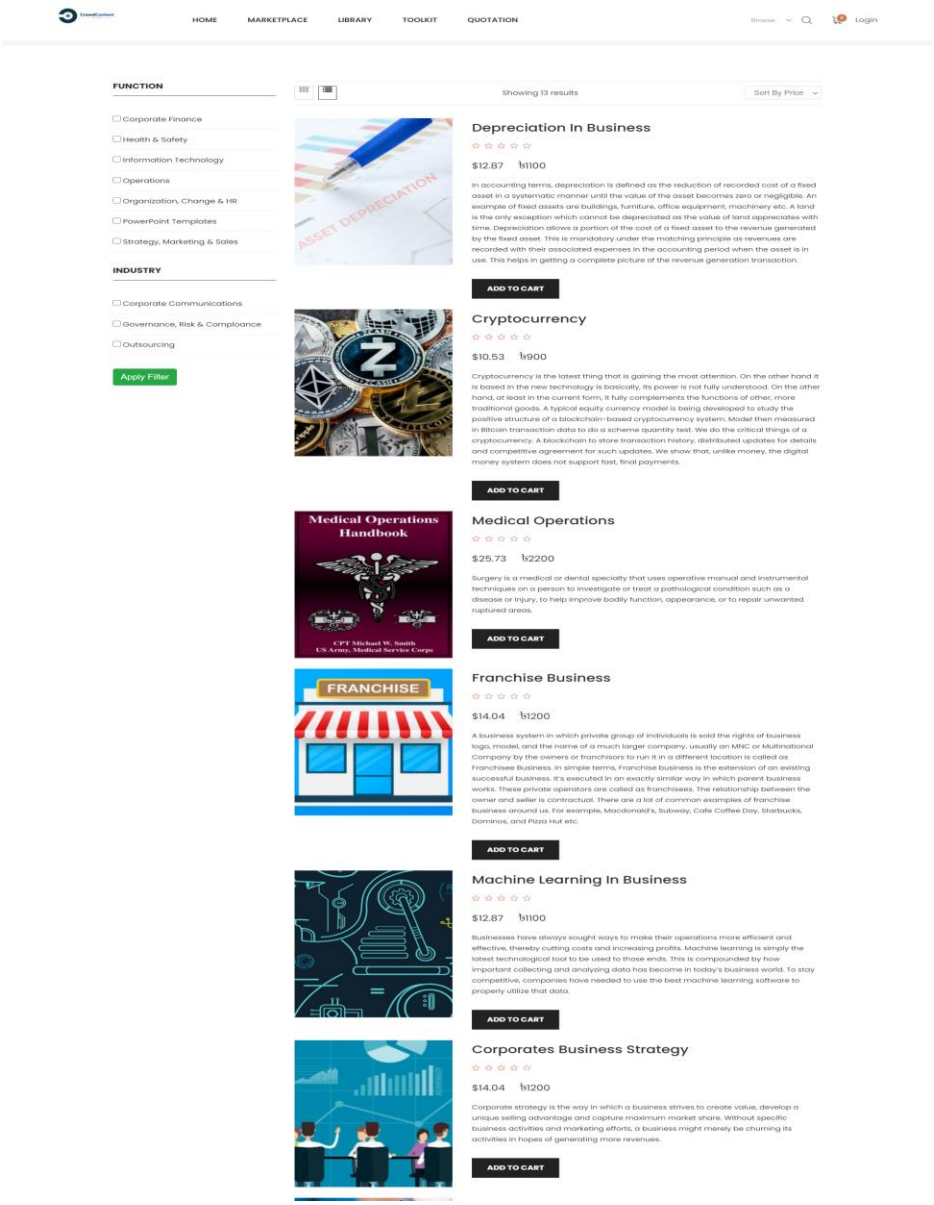

Figure 7: crowd content marketplace.

6.3.3 LIBRARY PAGE

Library is the collection of documents & process page's files. Only premium members can access library page. To be a premium member the user will have to pay a certain amount of money for monthly subscription. Then the user will get more discount or download token for free download for premium users.

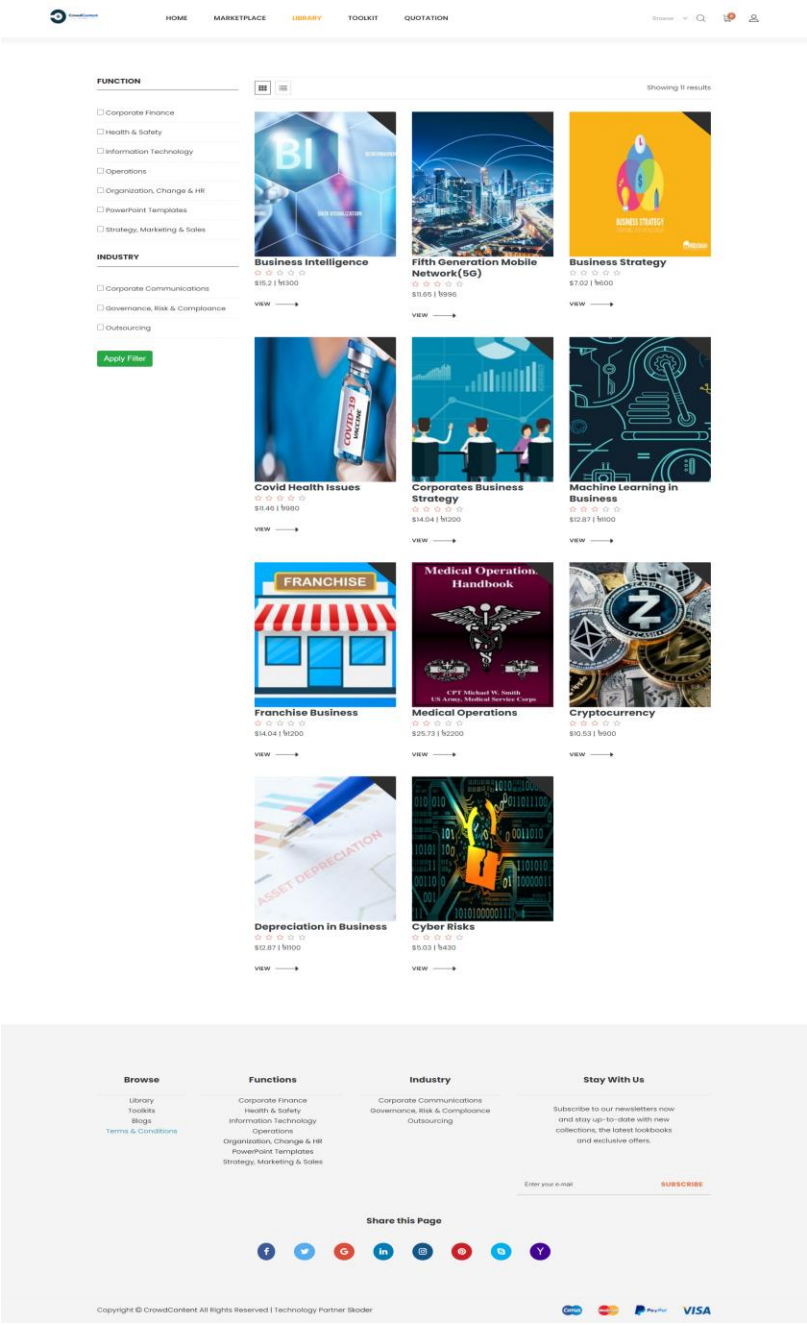

Figure 8: crowd content library

6.3.4 TOOLKIT PAGE

Toolkit page is a bundle of multiple documents at a discounted price. In a toolkit or bundle it can contain documents from process and documents. The price is reduced as the user will take various products as a bundle. The discount rate varies as the customer's regularity in crowd content. Premium members will get more discount comparing to non-premium users.

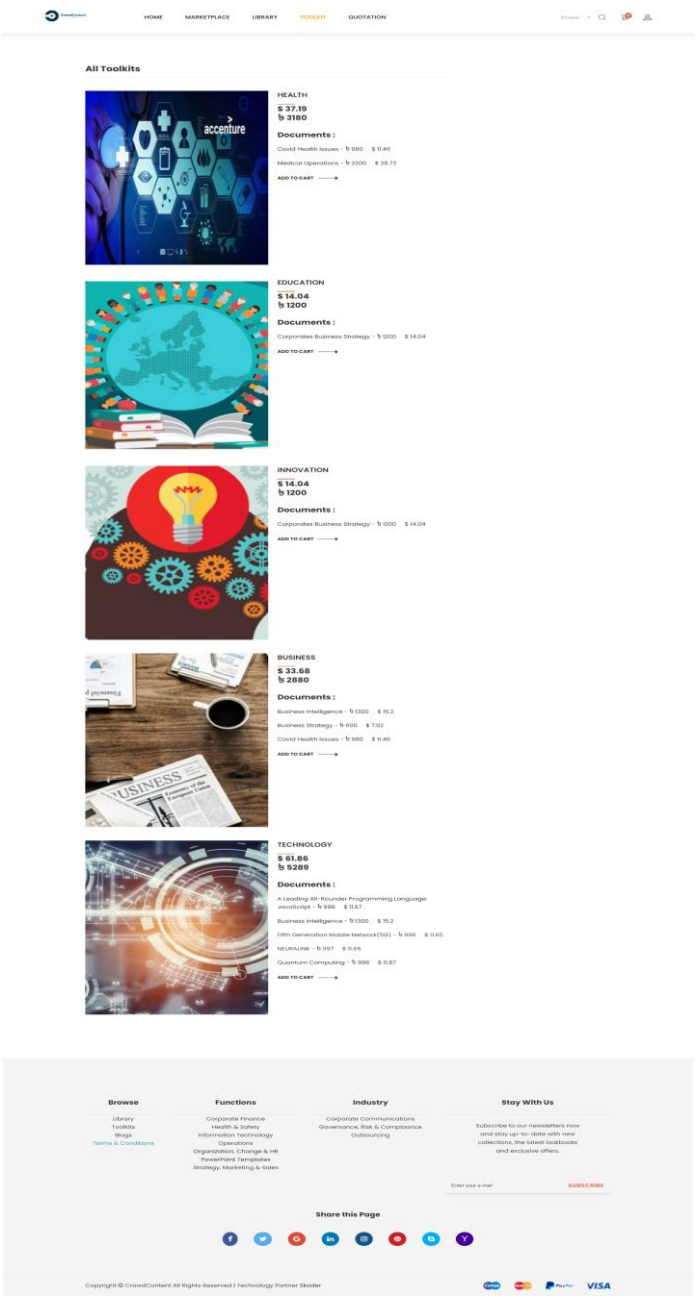

Figure 9: crowd content toolkit

6.3.5 CART PAGE

User can see the selected documents in cart page. By using referral code (provided by crowdcontent for special members) user will get discounted price

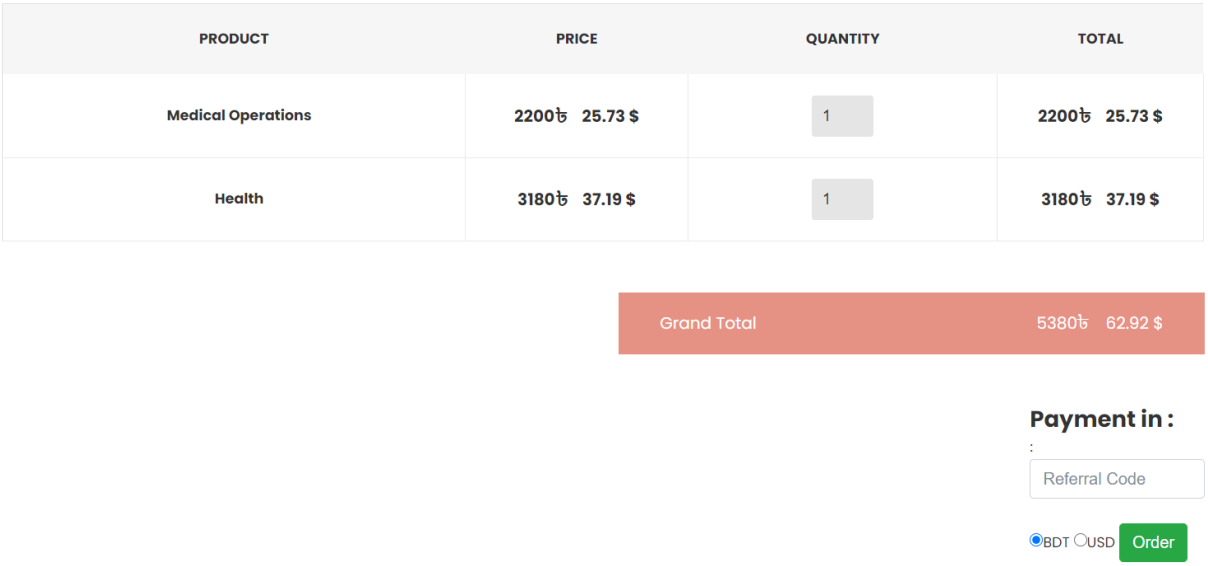

Figure 10: crowd content cart page

6.3.6 SSLCOMERZE TO SUCURE PAYMENT

SSLCOMERZE is a secure transaction method. After buying the documents user will pay the amount through debit/credit cards (visa, mastarcard) or mobile banking system (bkash, rocket, m-cash, nagad etc.) or internet banking systems.

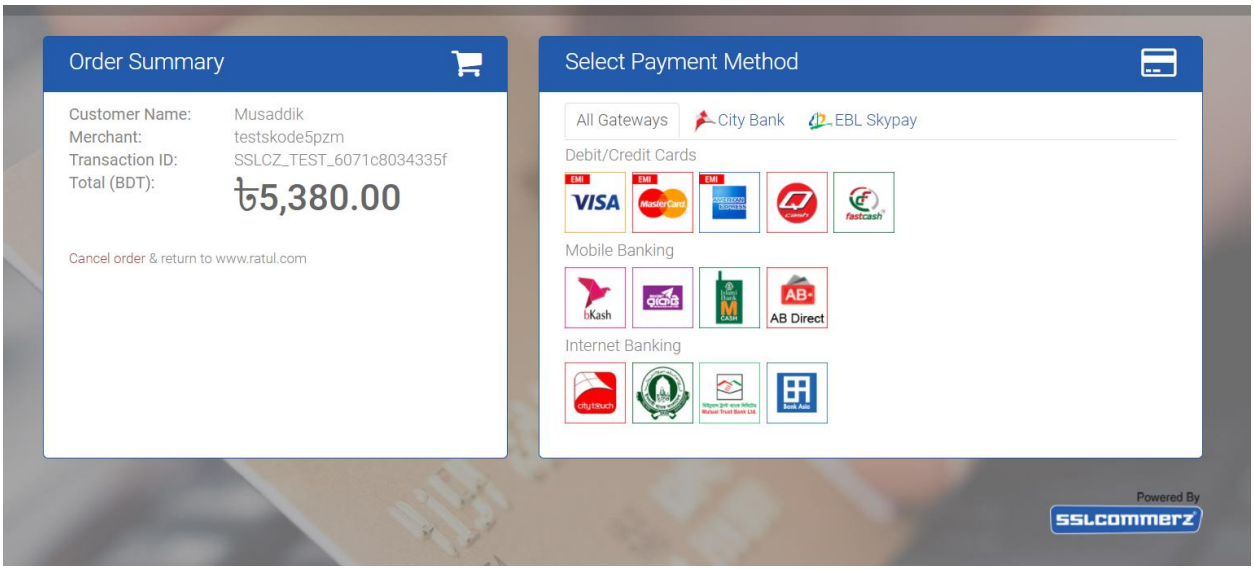

Figure 11: SSLCOMERZE

6.3.7 QUOTATION PAGE

In this page the logged in user can propose business methods. He/she can criticize current methods and can propose his way method or thinking which can be applied. Then the request will send to admin panel. Admins or moderators will take decision about it.

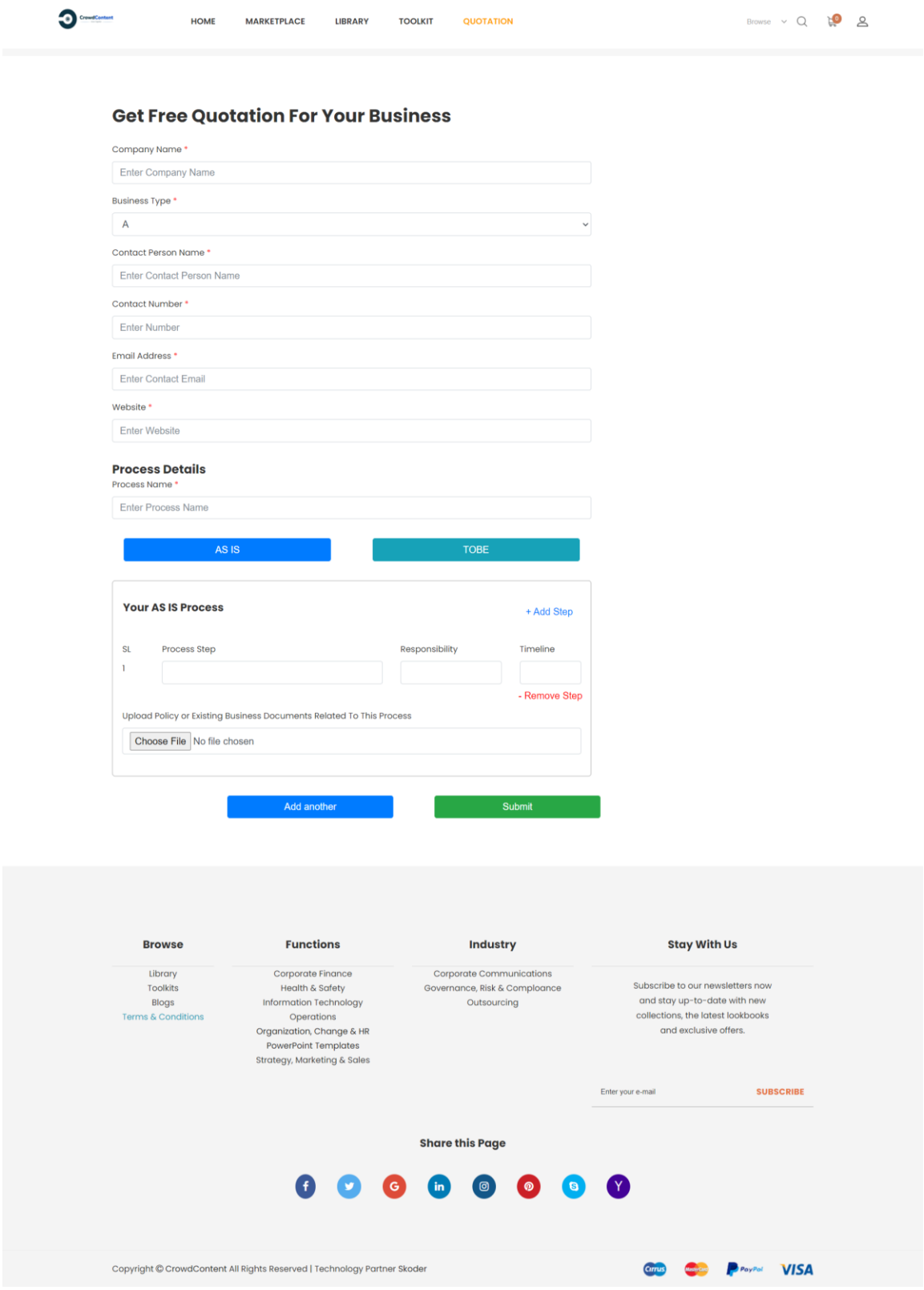

Figure 12: QUOTATION PAGE

6.4 Observation:

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After running and testing the whole system it is clear that the system is running smoothly and it is responsive in mobile, tablet, desktop view. The data set is clearly visible and correct in every page. Login and authentication is detecting and preventing from unauthorized login. Transaction reports are generating as the user is purchasing documents. Laravel packages are working perfectly. There are no major bugs in UI. The whole Laravel code is neat and clean. Application programming interface (API) is receiving data and sending to another page as expected.

UI maybe a little bit complex for new users. Users may not find their documents as primary data shortages. Prices may vary from regular document price table. Minor bugs may find by users as the device variations.

After 5 weeks of internship the author has gained deep knowledge in Laravel and API implantations. New features have been learnt before implementing and fundamental knowledge of old features is increased and increased. Practical knowledge in IT company is gained. Besides networking with various people established. Achievement from this industrial attachment has gained satisfactory mark from the author.

Website link: https://crowdcontent.co/

6.5 Challenges encountered:

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Industrial attachment program introduces us with the real corporate life. Definitely this life is challenging and difficult for many of us. As a result, I also faced some difficulties and challenges. Firstly, the meetings were hold on online platform. Which is surely not similarly in face to face meeting. As a junior developer I faced many problems in coding part. I had to solve those problem through online which creates understanding gaps.

SECTION 8: CONCLUSIONS AND IMPROVEMENTS FOR THE FUTURE

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8.1 CONCLUSIONS

This internship program made familiar with ICT area in corporate framework in Bangladesh. Author is clearer about his goal of life and field of interest and got fundamental business-related insight and building solid resume for splendid profession. Problem solving strategies are very important to solve any problem in a constrained time. Weekly progress can help to achieve that goal. Since some information was considered to be classified for security purposes, there were some limitations on revealing it. As a result, those topics are not including them in this article. Some information is obtained from secondary sources was not organized consistently. Web server programming is necessary to solve this real-life problem. Laravel, JavaScript, HTML, CSS, JSON, PHP are some required skills before starting this project. Database design and use-case scheme helps to get a clear view for any software and web applications. As the technology is upgrading every day, new features and versions are publishing frequently. To make the site up to date and ensure security, there is no alternative way of learning continuously.

There are many problems and the need to make the best decisions in a short period of time in today's world, with so much scattered information. Client input requirements vary, and it's often difficult for a consulting firm to provide expert solutions across a broad variety of parameters. To solve this issue, crowd content is a solution. Crowd content ensures files/documents' quality. The file will be checked before uploading to the site. Crowd content supplies necessary documents in a short time to a vast customer. It is a reliable platform for best practices. Modern problems require modern solutions. Crowd content is such a web application which ensures quality and reliability by using the latest web framework and tools.

8.2 FUTURE IMPROVEMENTS PLAN

The crowdcontent platform is a web-based ecommerce site. Multiple users' enrollment is quite normal for an ecommerce site. So, it is clear to estimate the network traffic.in future the system will be more robust and to compete with competing models, the app must have special and innovative functionality. As artificial intelligence and machine learning are the leading technologies, we can use it to make the site more user friendly and easy. The site contains resourceful & costly documents. To ensure data protection blockchain methodology can be used to make the transactions more secure and authentic.

The use of a mobile app to communicate with an online platform is becoming increasingly simple and convenient. For a wide range of users, an app for iOS and Android platforms is needed. The app is more feature-rich than the website. It gains access to the native API and caches data locally to save bandwidth and provide offline access.

References

[1] docs, M. w. (n.d.). *What is JavaScript?* Retrieved from MDN web docs: https://developer.mozilla.org/en-US/docs/Learn/JavaScript/First_steps/What_is_JavaScript#a_high-level_definition

[2] Laravel. (n.d.). *Meet Laravel*. Retrieved from Laravel: https://laravel.com/docs/8.x

[3] Naeem, T. (n.d.). *All You Need to Know About Database Design*. Retrieved from astera: https://www.astera.com/type/blog/all-you-need-to-know-about-database-design/

[4] tutorialspoint. (n.d.). *Laravel - Overview*. Retrieved from tutorialspoint: https://www.tutorialspoint.com/laravel/laravel_overview.htm

[5] Wikipedia. (n.d.). *CSS*. Retrieved from Wikipedia: https://en.wikipedia.org/wiki/CSS

[6] Wikipedia. (n.d.). *HTML*. Retrieved from Wikipedia: https://en.wikipedia.org/wiki/HTML