INTERNSHIP REPORT

Internship of Web Development at CODEXCUBE.COM

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APPROVAL

This Internship project titled on "**ZiscoERP**", submitted by **Mizanur Rahman (ID: 181-35- 2482)** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

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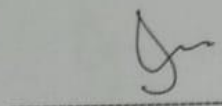

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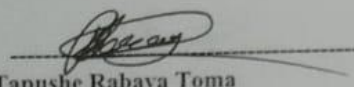

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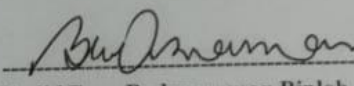

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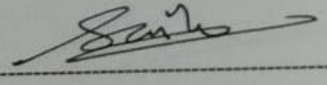

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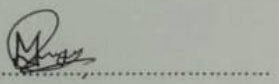
DECLARATION

I hereby state that **Khalid Been Md. Badruzzaman Biplob, Senior Lecturer** in the Department of Software Engineering at Daffodil International University was the one who oversaw the completion of this project. I further declare that this project is my original creation for the B.Sc. in Software Engineering degree and that neither the entire project nor any of its components have ever been submitted for another degree at this university or any other.



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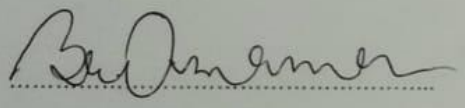

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Chapter 1: Introduction

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Introduction

I completed an internship with CODEXCUBE.COM, a full-service software company, as part of the BSc in Software Engineering undergraduate program at Daffodil International University. Internships are frequently directly tied to a student's academic and professional aspirations, which aids with my knowledge acquisition of the industry. My internship in software development gave me the wonderful opportunity to work on CODEXCUBE.COM, which is the basis for this report. I have always been interested in software development.

Rational

My internship has helped me learn about other businesses, develop professional confidence, etiquette, and habits, all of which have unquestionably motivated me to succeed. Gaining experience through an internship has several benefits and can be done for undergraduate applied/technical elective credit (s). Internships allow students to deepen their learning and gain the skills they need to deal with difficulties in the real world. Starting this report makes me nervous since I need to explain how my practical experience and academic knowledge are related. This caused me to think differently and provided me a more in-depth understanding of the principles I had acquired in my theory session.

Background

Students at Daffodil International University have the unique chance to complete an internship as part of their bachelor's degree program. Being able to study at Daffodil International University and participate in an internship makes me one of the lucky ones. I've worked extensively in the web development field over the past two years as a student in the software engineering department. Working on the back end of a program is the

practice of web development. The phrase is typically applied to people who work in web development. The programmers have expertise designing admin interfaces and user interfaces for back-ends, as well as solid knowledge of a programming language used for controlling the application's logic, hence back-end. Back-end components of website development, the back-end portion are what users cannot see, including the server, database, and logic of the application.

I've been given the fortunate opportunity to finish my internship at CODEXCUBE.COM. I was able to broaden my web development knowledge thanks to this internship. For me, the voyage was not an essay. I had to overcome several obstacles and deal with new technologies, but I also realized I had untapped potential.

Motivation

The major goal of my internship was to deepen and broaden my knowledge as it was developing. because it is unlikely that everything can be covered within the parameters of the academic program. Since accepting the position of web developer, I've had to deal with a lot of things that I found challenging. Developing skills for dealing with challenges in real life is another incentive to choose an internship. In the course of this internship, I am incredibly grateful to my supervisor for putting me to work in the real world.

Objectives

The major goals of this report are to finish the BSc program requirements and to provide the knowledge and information that was acquired throughout the organization's internship period.

The following are the other crucial goals:

- Helping the development manager with all coding-related tasks.

- Participating in meetings for business development and adding to them.
- Acquiring new coding abilities and learning the codebase.
- Creating and updating code.
- Making little bug fixes.
- Attending to the development team's requests.

Scope of the study

This report is based on the software development process used by CODEXCUBE.COM. The report will also briefly outline the entire CODEXCUBE.COM Software Development process in addition to this. This study is crucial for understanding the software development process, which covers requirement collection and analysis, design, development, testing, implementation, maintenance development tools, and other activities. I have gained understanding of those Software Development techniques from my internship experience, and this journey has allowed me to increase my knowledge base. I have the opportunity to solve problems in the workplace. That will help me land my next job. Here, I've picked up cultural differences including how to uphold company rules and how my coworkers think. I also love software development, and this internship gave me the chance to pursue that desire.

Chapter 2: Organization Overview

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About

The main goal of CODEXCUBE.COM is to fundamentally improve an organization's ability to construct intricate commercial frameworks. Systems architects, developers, and operations teams use the software they create, market, and maintain on a global scale. In 2015, CODEXCUBE.COM was established. The business has grown quickly and strategically in terms of both revenue and workforce. They currently employ over 35 people. Their comprehensive distribution, similar to our software, is one of their unique selling points. They provide services to customers both domestically and abroad. They work when it is most convenient for them because they are dispersed over six different nations and several different time zones. More than 80 projects have been completed successfully by CODEXCUBE.COM during the past 6 years. 2018 saw CODEXCUBE.COM one of the best service providers in the industry. They never divert their attention from the creation of high-value software and the delivery of services.

Company Profile

Many young, talented, and energetic software developers and security specialists who have already proven their prowess in this sector contribute to the improvement of CODEXCUBE.COM. They also have a large network of people with various skill sets who might help to guarantee a perfect solution for their esteemed clientele. This is a platform of gathered transmittable information that makes greater expertise in this area of security as well as an open stage for the experts and clients. The further offers two different services. Development and security services are examples of services. Web application development, cloud computing, JavaScript development, mobile app development, and digital marketing are among the development services.Web application testing, network security, database security, source code review, email security, and many more are examples of security services.

CODEXCUBE.COM Dept. Hierarchy

The assignment specifies a number of departments at CODEXCUBE.COM. The divisions are

I. **Service & Customer Department:** A customer service professional communicates with customers of a business to answer their questions about goods and services. Additionally, they address and assist in resolving any client complaints. Client service representatives typically gather this data over the phone.

II. **Accounts Department:** An accounting department provides financial support and accounting services to the organization to which it belongs. The department maintains records of fixed assets, stock, finance, accounts payable and receivable, and all other financial elements. To determine the company's financial status and any adjustments needed to run the organization cost-effectively, the department's accountants audit the records of each department.

III. **Management Department:** Everything is under the management department's jurisdiction. This management office is responsible for all departments. This office manages a variety of operations.

IV. **Marketing Department:** CODEXCUBE.COM is advertising itself through the marketing department. The customers are also given post-purchase support by this division.

V. **The Development Department:** The department that produced CODEXCUBE.COM's client software is known as the software development department. This department oversees all developers.

VI. **Human Resources Department:** We offer services to all of our employees and offer all forms of letters, including appointment letters. All of the employees' needs are met, and their salaries are increased and rewards are given. This division distributes job announcements, evaluates resumes, and issues appointment letters to candidates.

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Services of CODEXCUBE.COM

CODEXCUBE.COM guarantees that they are strongly committed to giving customers the best service available in the nation. The sixth year of CODEXCUBE.COM's journey is currently underway. Web application development, cloud computing, mobile app development, and cyber security are a few examples of value-added services.

Web application development: All kinds of web-based applications are created, maintained, and improved via web development services. With six years of experience in web development, CODEXCUBE.COM creates user-friendly, quick websites, web portals, and other online solutions that accelerate company workflows and enable digital transformation.

Mobile app development: is a service that CODEXCUBE.COM offers to its customers for Android, iOS, and Windows Mobile. These user-friendly, high-performing mobile applications. The knowledge they offer helps their clients' businesses develop in a cutthroat environment.

Service for Cloud Computing: CODEXCUBE.COM Services for cloud computing are provided over the internet or a dedicated network. The service is provided as needed, and clients are charged in accordance with their consumption. Virtual desktops, servers, storage, and full application and development platforms are all included in the scope of cloud computing.

Security online: CODEXCUBE.COM As a professional team handles their company's security issue, the customer of a cyber security service can continue to concentrate on growing their business. Any causation in their client's system will be continuously monitored, and they will instantly notify the client. Additionally, they make sure that all crucial customer data and information is properly backed up. Our cyber security solution is always prepared to give clients peace of mind by preventing them from worrying about any security breach, regardless of whether they host information in private or public clouds, hybrid systems, or traditional on-premises systems.

The Vision

A full-service software provider, CODEXCUBE.COM offers consulting services and the deployment of best-in-class business solutions to prestigious local and worldwide clients. Our company's vision is to deliver high-quality goods and services at competitive prices in order to achieve 100% customer satisfaction. We also work to establish ourselves as a leading provider of technology-based business solutions that can elicit an almost limitless response from the niche we are targeting. We also provide specialist goods, IT services, and custom end-to-end solutions to our enterprise clients, as well as a special skill in developing custom software.

The Mission

Our company's mission is to establish a solid reputation as a provider of high-quality, reliable solutions and services in the ICT sector. By developing and/or implementing high-end IT products and services, our challenge is to enhance the business operations of its clients. The business development of our clients' companies has to be expanded. We are here to fulfill your needs and establish an enduring, mutually beneficial relationship with you.

Company Product

Our business offers a few things.

ERP :

We use an ERP system. Data analysis, automation, and extensive infrastructure integration are all possible with ERP. Integration, automation, data analysis, reporting, customer relationship management, accounting, tracking, and visibility are all important ERP features.

Ecommerce:

E-commerce system is available. E-commerce is the practice of making purchases online and completing transactions by sending money and data. A simple checkout process, tools for promotions and discount codes, and a variety of payment alternatives are among the most crucial elements (credit card, stripe etc.)

Clients:

Clients are constantly the main components of running a software business. As a software business, we work with both domestic and foreign clients. Our business works to increase the number of customers.

Figure: 1.1 Clients Logo

Company Location:

CODEXCUBE.COM is located House: 10 Block KA, PC Culture Housing Society, Rizia Villa, Ring Road Shyamoli, Dhaka-1207, Bangladesh

Phone: +880 1723611125, +8801723686826

Email: info@codexcube.com

References: http://codexcube.com/

Chapter 3: Company Culture and Carrying Out

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Working Environments and Protocols:

The working environment is crucial for developing a successful career. The working environment in this office is excellent. My coworkers are all cordial. Every everyone has their own place. Our business also offers necessities.

Working Team:

Working groups are established inside each department to complete projects. because no work can be completed by a single person. A worker who formerly worked for a department gets appointed to that department. Our entire workforce is collaborating as a unit.

Rules & Regulations:

Office Time:

The business hours are from 10 am to 6 pm. where we have a lunch and snack break. It must be mandatory for workers to leave on time.

Responsibilities:

Everyone is given their own tasks to complete, thus each person is accountable for his or her own work. There are a few other duties, such as:

- Using tools and equipment carelessly could result in damage to office property.
- Any serious loss or damage to business property must be reported as soon as feasible.
- Other private items may only be touched with his consent.
- I don't have to leave without my group leader's OK.
- The CEO must notify employees who need to take leave in an emergency.

Meeting:

Everyone must arrive at the meeting promptly. In that meeting, company plans are discussed.

Handling Clients:

Customers are an organization's primary resource. Each company has a unique approach to dealing with clients. Operations for handling clients differ from those in the organization. Each business handles its clientele using unique tactics. CODEXCUBE.COM is client-focused. where a non-technical person can comfortably and easily complete their work This business gathers prerequisites from customers and is designed in a method that makes it simple for someone to work more quickly. If the client needs to update the dynamic product after deployment, the business takes care of it quickly. This helps the business increase customer satisfaction.

Comparative Analysis of Office Culture:

The employer offers the intern chances. In contrast to other countries, ours has a pretty excellent culture. They hire individuals who fit this culture. Decision makers provide ideas that can come from anyplace. Understanding that I am still a part of the organization.

Intern Life Cycle:

The life cycle of an intern depending on a few factors. There was a life cycle for internees.

Figure: 1.2 Internee Life Cycle

Recruiting Policies:

Every organization uses the same recruiting strategies. CODEXCUBE.COM employs unique methods. My phone call for the interview followed the online application. For various positions, they hire different people. They gave me an internship, and if I succeed, they might let me stay on with their company.

Getting Started:

Beginning on July 6, 2022, I began working as an intern at CODEXCUBE.COM. I've gained a lot of development skills and exposure to a new environment over the past few months, both of which have been very helpful as I start my career in the IT industry. I also gain expertise about client sites. I learned what I needed to do from this intern. I'm really grateful that I was given the chance to do that internship.

Chapter 4: Technology Employing

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Fundamental Technology:

I've discussed the fundamental technologies I used throughout my internship in this chapter.

- **Project Management Tool:** CODEXCUBE (CRM)
- **Version Control Tool :** Github & Git
- **Localhost web Server :** Xampp 7.4.2
- **Editor :** Visual Studio Code
- **Front End Technology :** HTML5, CSS3, Bootstrap v5.0.0 , JavaScript ES6
- **Backend Language :** PHP 7.4
- **Database :** MySQL
- **Framework :** Codeigniter 3

Supportive Technologies:

We have employed a few auxiliary technologies. The business uses an agile software development life cycle (SDLC) along with user experience and design. Skype for efficient code collaboration and sharing. Google Docs are also used by the business for reporting.

Logistic Support:

The implementation of logistical assistance is a crucial step in the development of software. The majority of the logistic assistance is composed of skills like programming, system analysis, model design, prototype creation, etc. While implementing the software, we are passing through each of their stages. When we start a new project, our requirement gathering team initially meets with the clients to gather the requirements. Then we create a design and present it to the clients. If anything needed to change, we made the necessary adjustments to the requirement. The project was then developed with the client's perspective. And our own workforce completes every task.

Chapter 5: Rules & Responsibility

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Training Knowledge Sharing:

Each aspect of a new project is described by the project manager after it is launched. It is made apparent how to start, what to do, and what is needed to concentrate on that project. We receive a briefing from the project manager each day before we start working. When I am allocated to a project, this is so accommodating for me.

Project (E-commerce):

My whole education and knowledge-sharing focused on the e-commerce project. We are currently creating an e-commerce system. Some of the elements described above are present in this project.

Project Plot:

E-commerce system is the topic of the project. Here, customers can search for products, sort them by price and newness, view product details, add them to shopping carts or wish lists, save them for letters, apply coupons, pay with cash on delivery or the Stripe payment gateway, access their customer dashboards to view order details and cancel orders, and leave product reviews. Our development team is currently working on this e-commerce system.

Assigned Responsibility:

My obligations in this e-commerce project include

- Pricing and newness grading of products.
- Add items to your shopping basket or wish list.
- The item was saved for later.
- Set and use the promo code.
- Make a purchase using the Stripe payment gateway and cash on delivery.
- Cancelling an order.
- Review the product.

Project Goal:

The web-based application is where this project's key objectives lie. The majority of people rely on the internet now, however there aren't many e-commerce businesses with dependable product quality and easy online shopping. Therefore, we believe that many individuals will find this "E-commerce" initiative handy when making purchases.

System Analysis and Design:

Functional Requirements:

FR-01	**Product Sorting**
Description	Customers can sort products in this online store by product newness and price (low to high, high to low).
Stakeholders	Customer

FR-02	**Add Product To Cart**
Description	Customers can add items to their shopping carts.
Stakeholders	Customer

FR-03	**Add Product To Cart**
Description	Customers can save products under the "Product saved for later" options if they want to purchase them later.
Stakeholders	Customer

FR-04	**Set & apply Coupon Code**
Description	Administrators can create promo codes, which customers can use to purchase products.
Stakeholders	Customer

FR-05	**Checkout**
Description	After adding a product to their cart, customers can check out and provide their shipping information. The customer has the option of paying with cash or a credit card (Stripe payment gateway).
Stakeholders	Customer

FR-06	Order And Cancellation
Description	Customers may cancel product orders after making a purchase..
Stakeholders	Customer

FR-07	Set & apply Coupon Code
Description	Customers who have purchased this product have the option of reviewing and rating it.
Stakeholders	Customer

Use Case Diagram For Customer:

Figure: 1.3 Use Case Designs for Customer

Use Case Diagram for Admin:

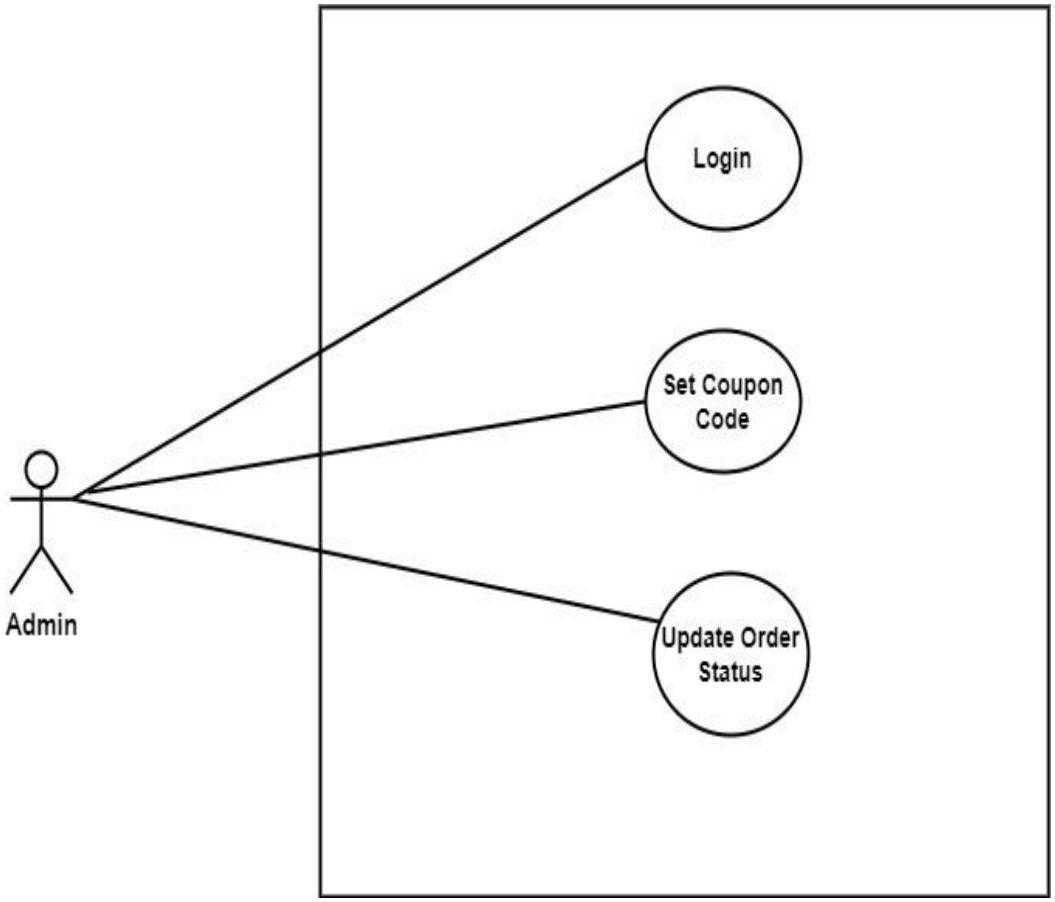

Figure: 1.4 Use Case Designs for Admin

Use Case Description Table:

Use Case Title	**Registration**
Use Case Id	UC – 01.0
Precondition	The user chooses and completes the registration form.
Actors	Customer
Success End Condition	User Successfully Register
Failure End Condition	Show the "" register error message.
Trigger	user home page display
Description	The user can register for the system once all required fields have been completed.

Use Case Title	**Login**
Use Case Id	UC – 02.0
Precondition	1. User Must be registered 2. The user chooses the login form and completes it.
Actors	Customer & Admin
Success End Condition	User Successfully Register
Failure End Condition	Show the "" register error message.
Trigger	Display the admin dashboard and the user home page.
Description	After logging in, both the user and the administrator can access the homepage and admin dashboard, respectively.

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Use Case Title	**Add To Cart**
Use Case Id	UC – 03.0
Precondition	The add to cart option is chosen by the user.
Actors	Customer
Success End Condition	Product succesfully added to basket.
Failure End Condition	The product cannot be successfully added to the cart.
Trigger	Message of success display.
Description	The user can checkout after adding products to their cart.

Use Case Title	**Set Coupon Code**
Use Case Id	UC – 04.0
Precondition	1. Admin Need To Login 2. Admin select the add coupon option
Actors	Admin
Success End Condition	Coupon add successfully
Failure End Condition	Coupon cannot be successfully added.
Trigger	Message of success display.
Description	Admin Added Multiple coupon

Use Case Title	**Checkout**
Use Case Id	UC – 05.0
Precondition	1. User Need To Login 2. User Add Product To Cart
Actors	User
Success End Condition	Product Order add successfully
Failure End Condition	Product Order cannot be successfully.
Trigger	Message of success display.
Description	For customers to check out, they must first register or log in,

	provide their billing information, and click the button labeled "Place Order Now." This will display an order confirmation message.

Use Case Title	**Order Cancelation**
Use Case Id	UC – 06.0
Precondition	1. User Need To Login 2. Customer Order Product 3. The user selects the choices for order cancellation.
Actors	Customer And Admin
Success End Condition	Order cancel successfully
Failure End Condition	Order cancel cannot be successfully.
Trigger	Message of success display.
Description	After placing a purchase, customers can cancel that order.

Use Case Title	**Update Order Status**
Use Case Id	UC – 07.0
Precondition	1. Admin Need To Login 2. Admin select order update option
Actors	Admin
Success End Condition	Order update status successfully
Failure End Condition	Order update status cannot be successfully.
Trigger	Message of success display.
Description	After a customer orders a product, the administrator can update the order status to "ordered," "delivered," or "canceled."

Use Case Title	**Product Review**
Use Case Id	UC – 08.0
Precondition	1. Customer Need To Login 2. Customer Order Product 3. Customer Select the review option
Actors	Customer
Success End Condition	Product review successfully
Failure End Condition	Product review cannot be successfully.
Trigger	Message of success display.
Description	Customer reviews and ratings are submitted after the order product has been "delivered" to the customer.

Activity diagram for add product to cart:

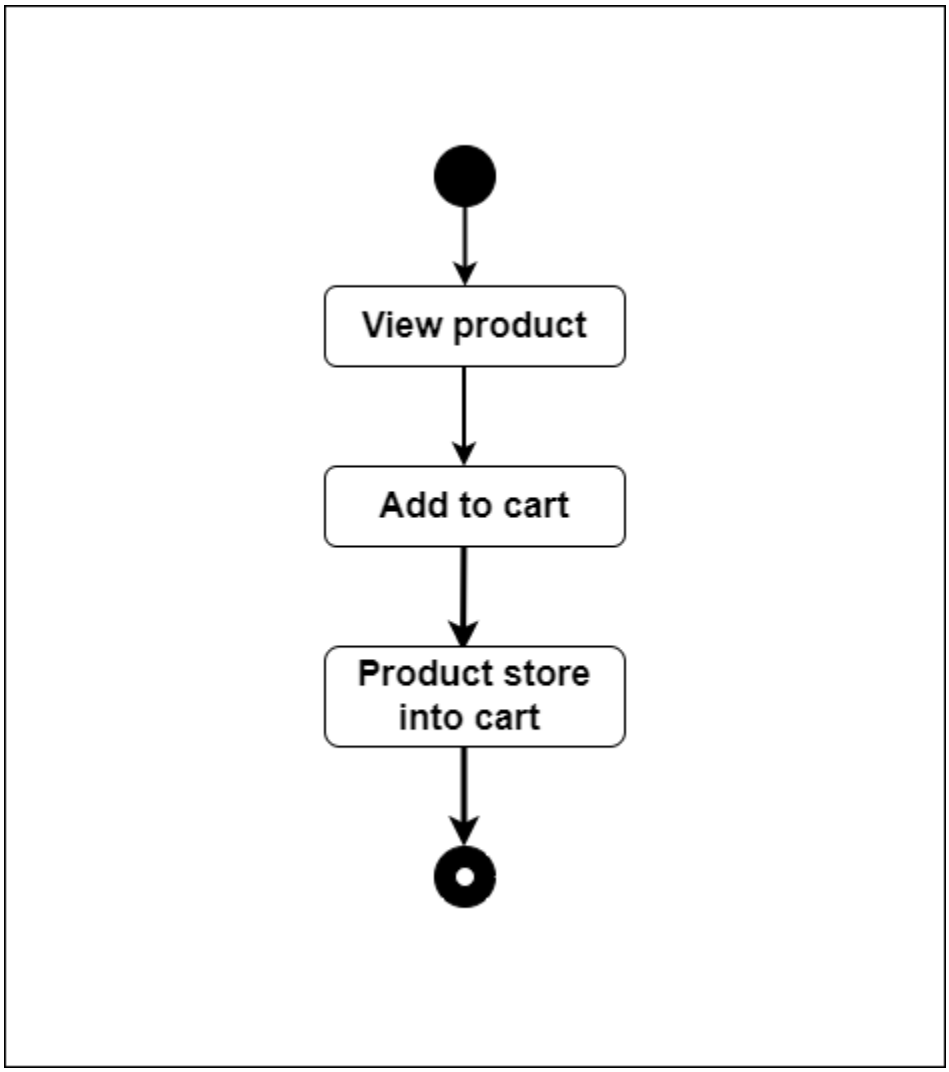

Figure: 1.5 Activity diagram for add product to cart

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Activity diagram for add coupon code:

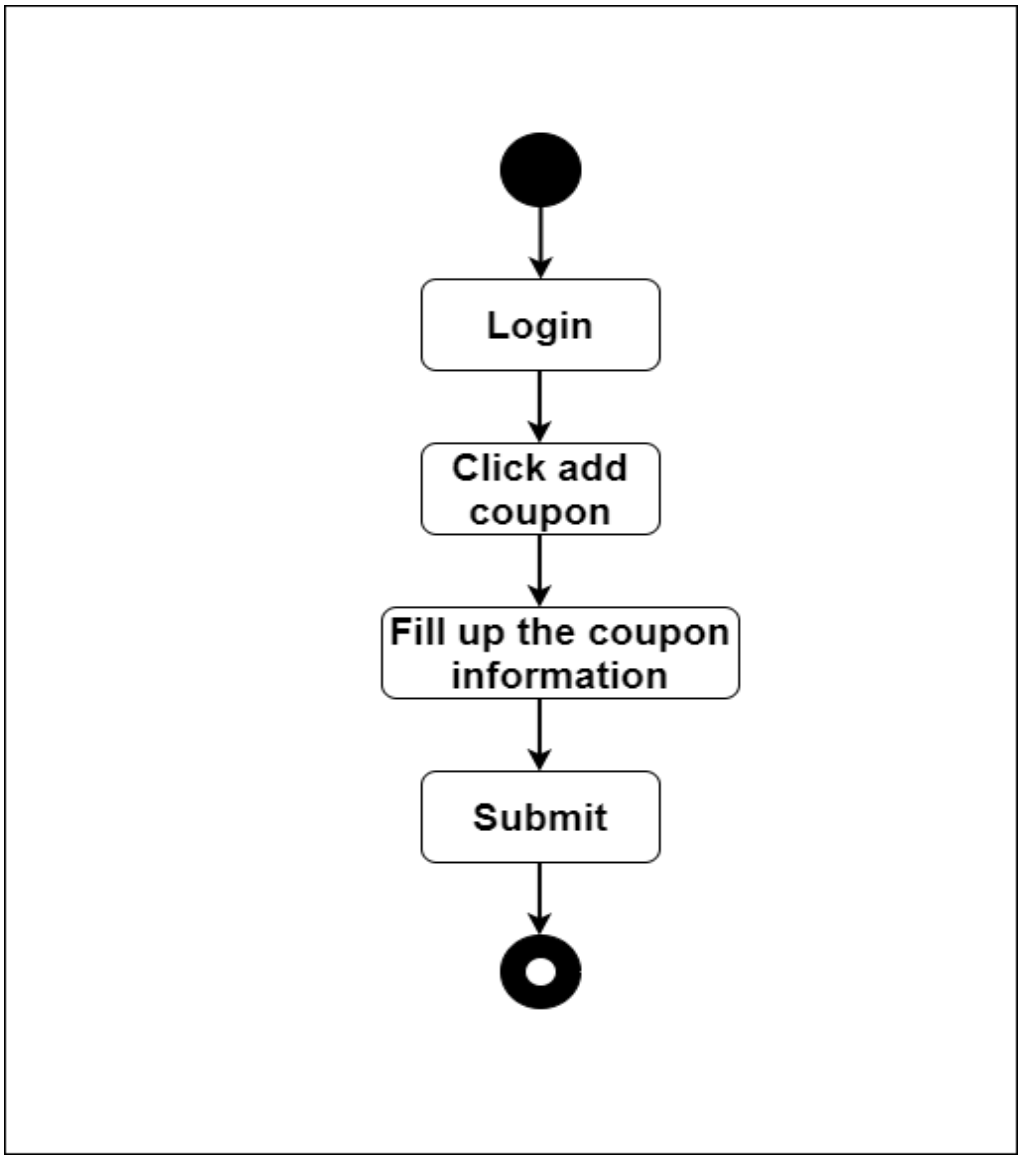

Figure: 1.6 Activity diagram for add coupon code

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Activity Diagram for Checkout:

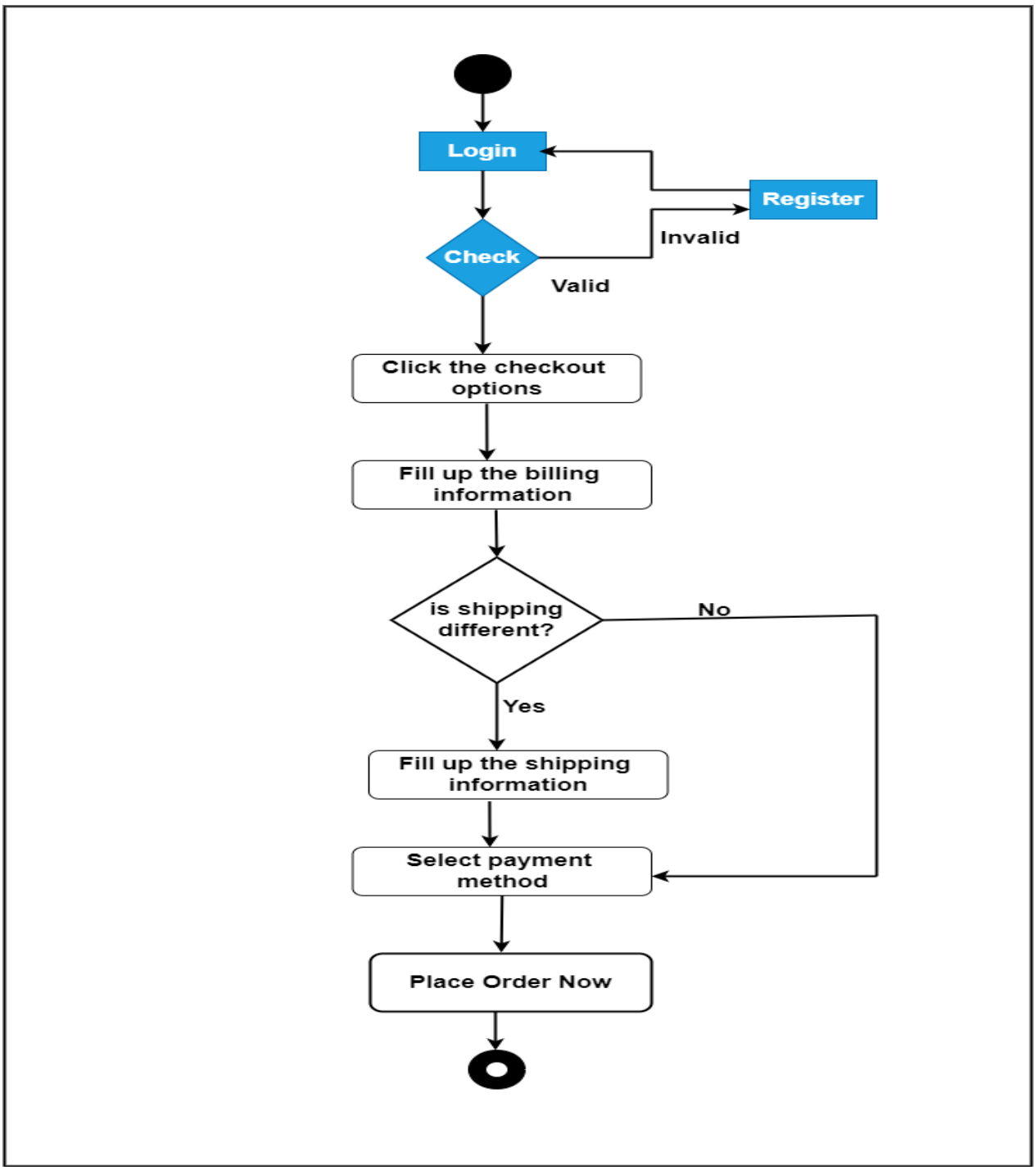

Figure: 1.6 Activity diagram for checkout

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Sequence Diagram for user Login :

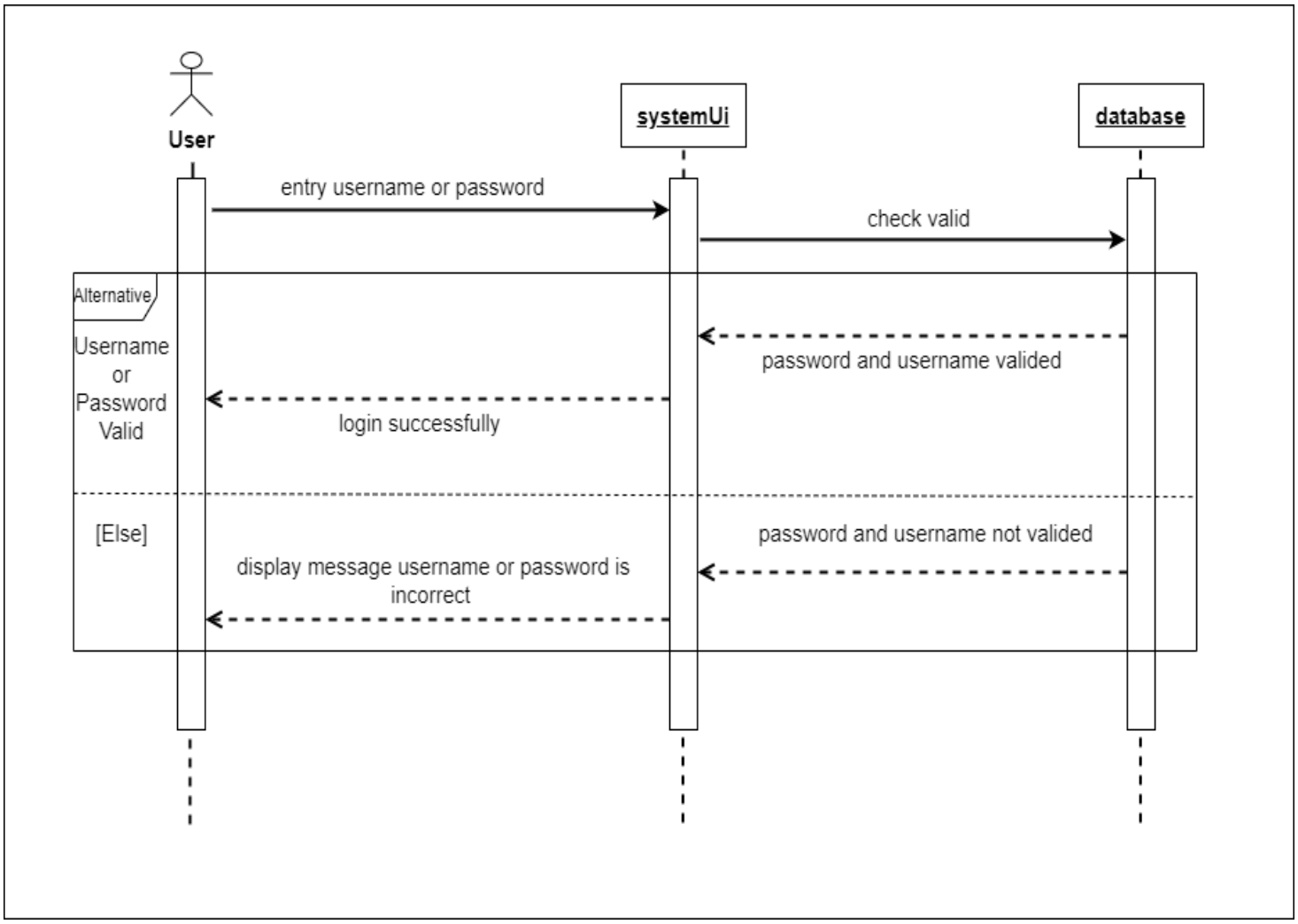

Figure: 1.7 Sequence Diagram For User Login

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Sequence Diagram For Customer Checkout :

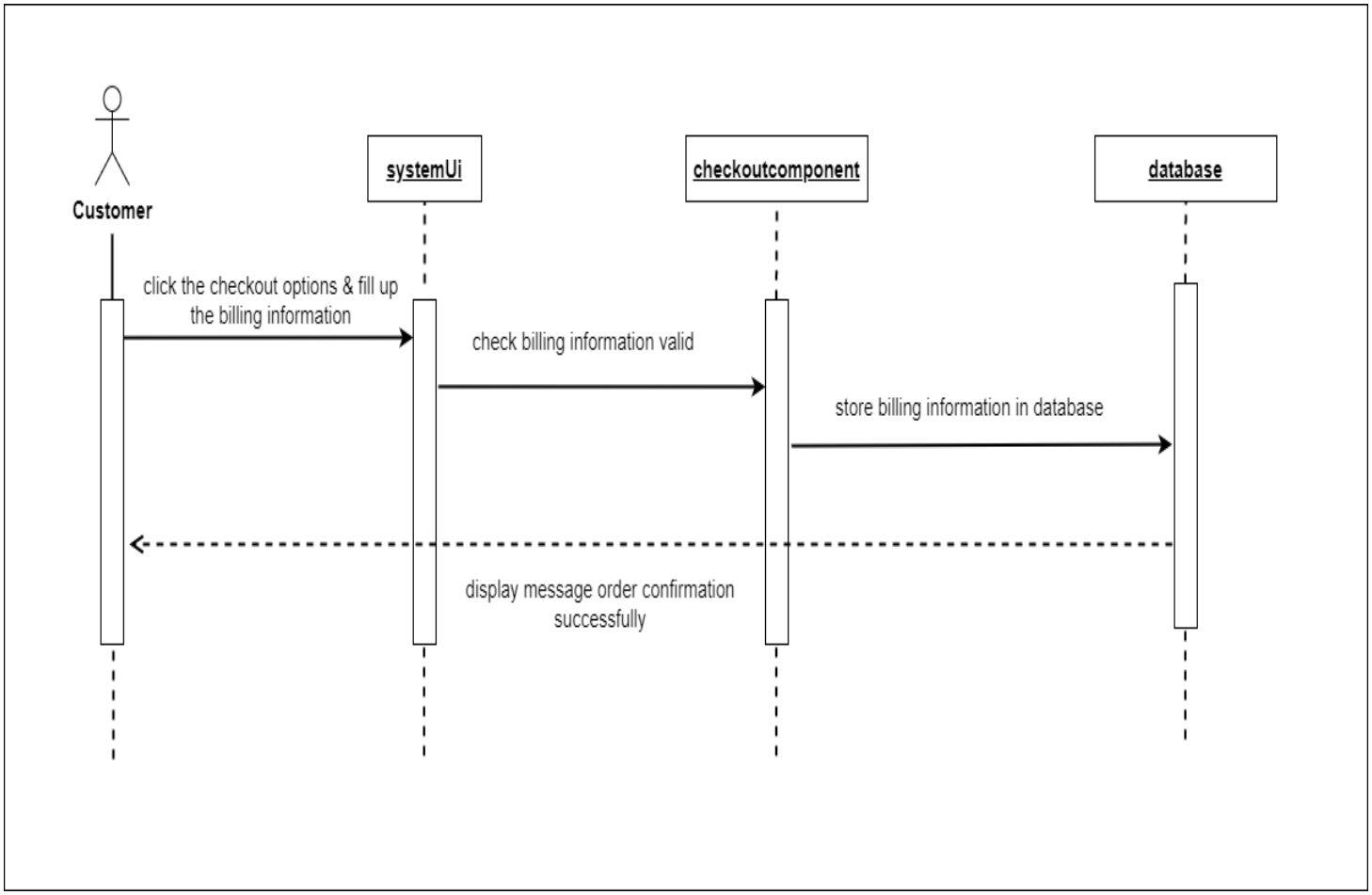

Figure: 1.8 Sequence Diagram For Customer Checkout

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Class Diagram :

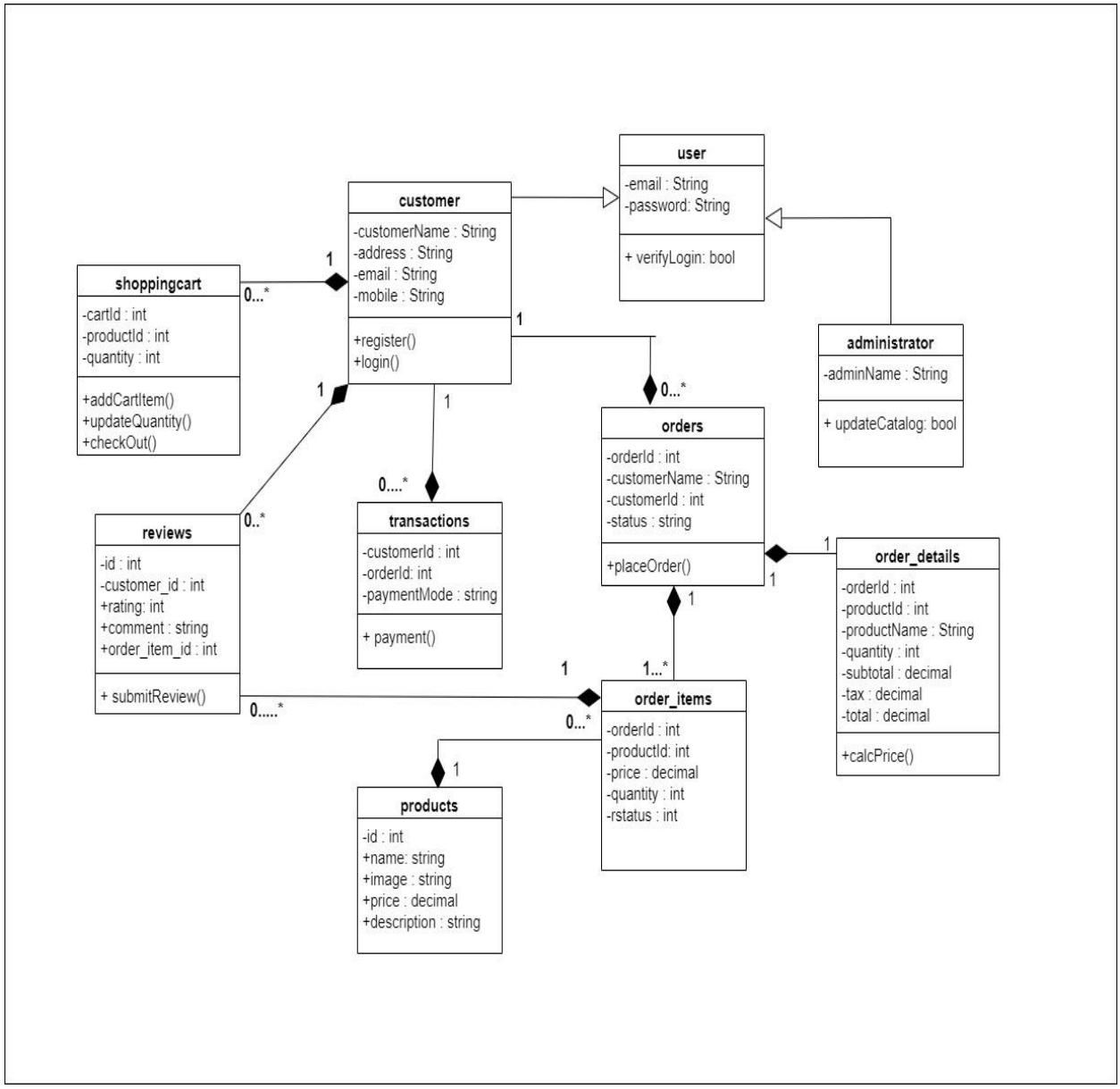

Figure: 1.9 Class Diagram

Database Design :

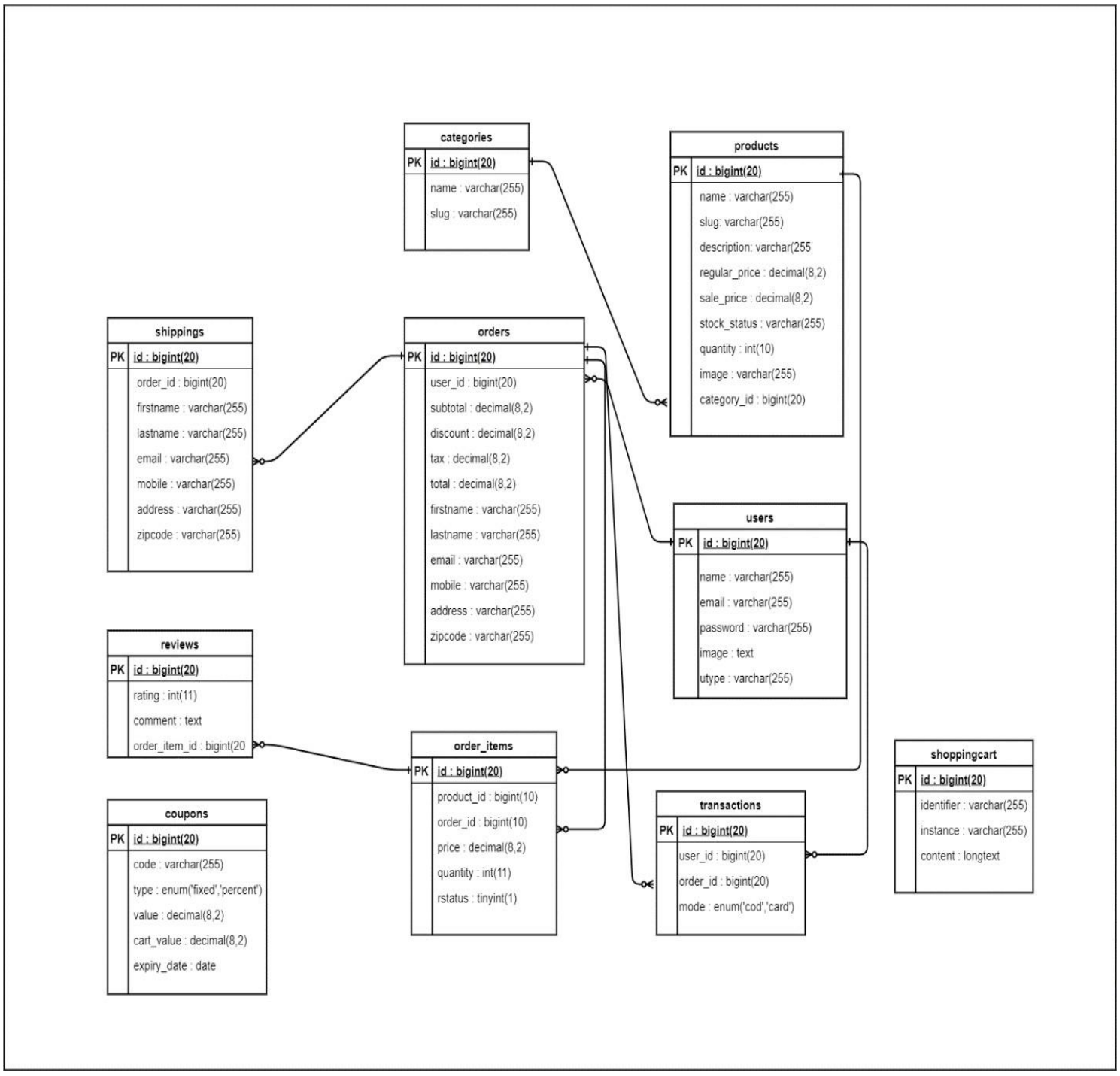

Figure: 1.10 Database Design

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Challenge:

Understanding the concept is my project's biggest issue. When I first started working on this project, I encountered some difficulties implementing the logic, but I was able to resolve them by speaking with our project manager.

Technique Finding:

While working on this project, I came across a few technical terms and several work styles. I picked up how to use the Codeigniter framework, numerous Codeigniter packages, and JavaScript from them. JavaScript and Codeigniter make it simple to develop software. Additionally, good SQL query writing and database normalization were learned.

User Manual:

Registration:

This is the page where customers register. Customers can register here.

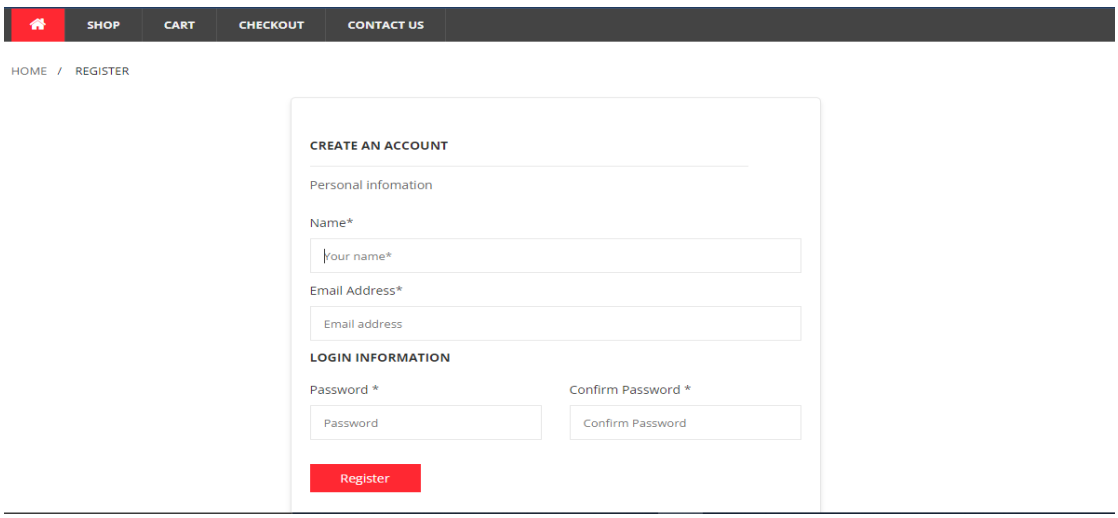

Figure: 1.11 Customer Registrations

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Login :

The customer login page is here. Customers can log in here.

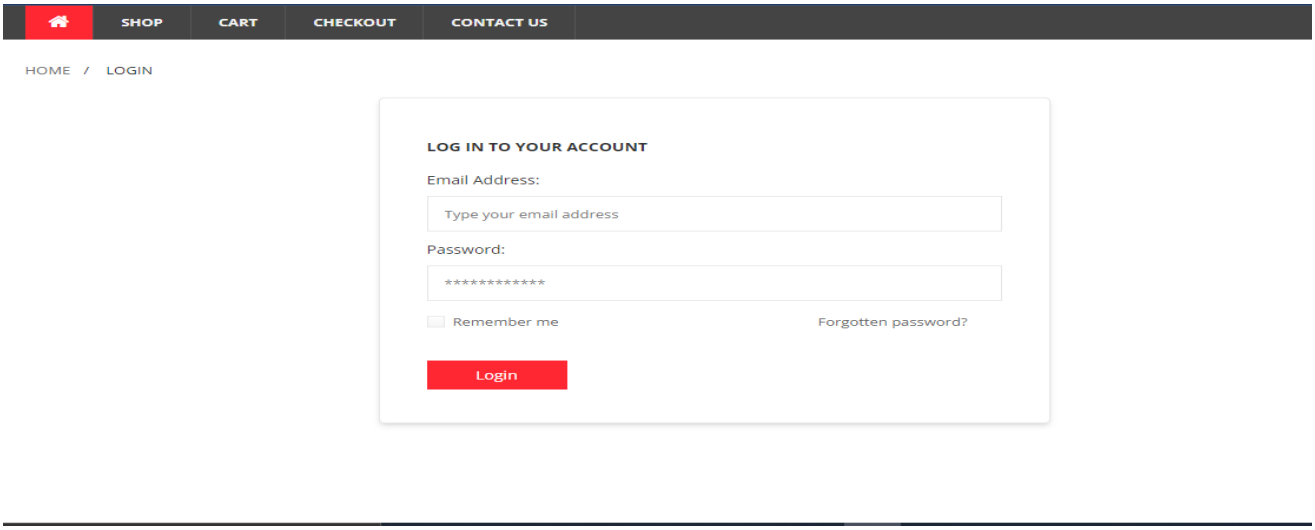

Figure: 1.12 Customer Login

Home Page :

Customer home page shown here.

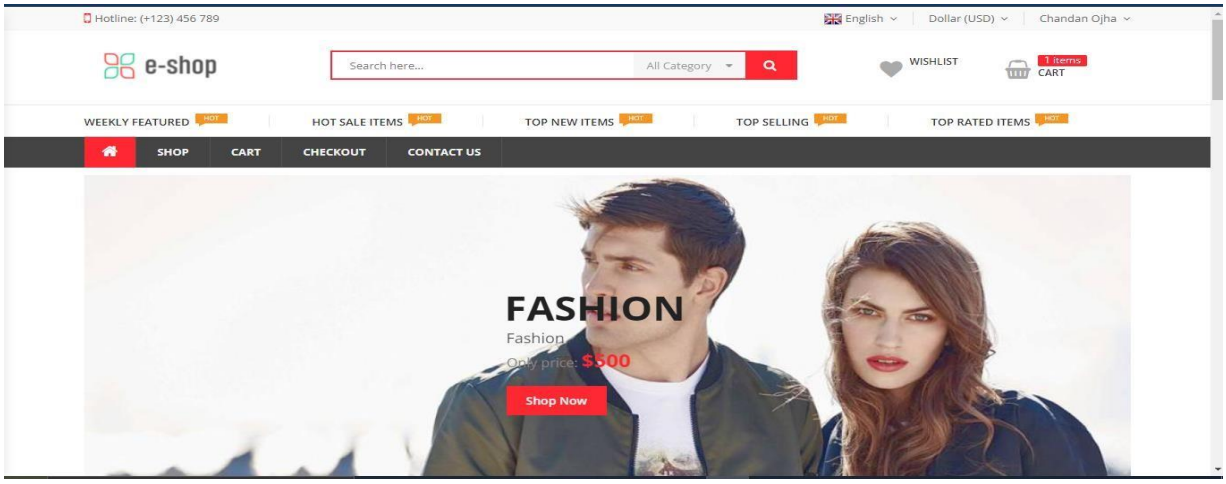

Figure: 1.12 Home Page

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This Is Shop Page :

This is the shop page. Customers can view and add products to their shopping carts on this page.

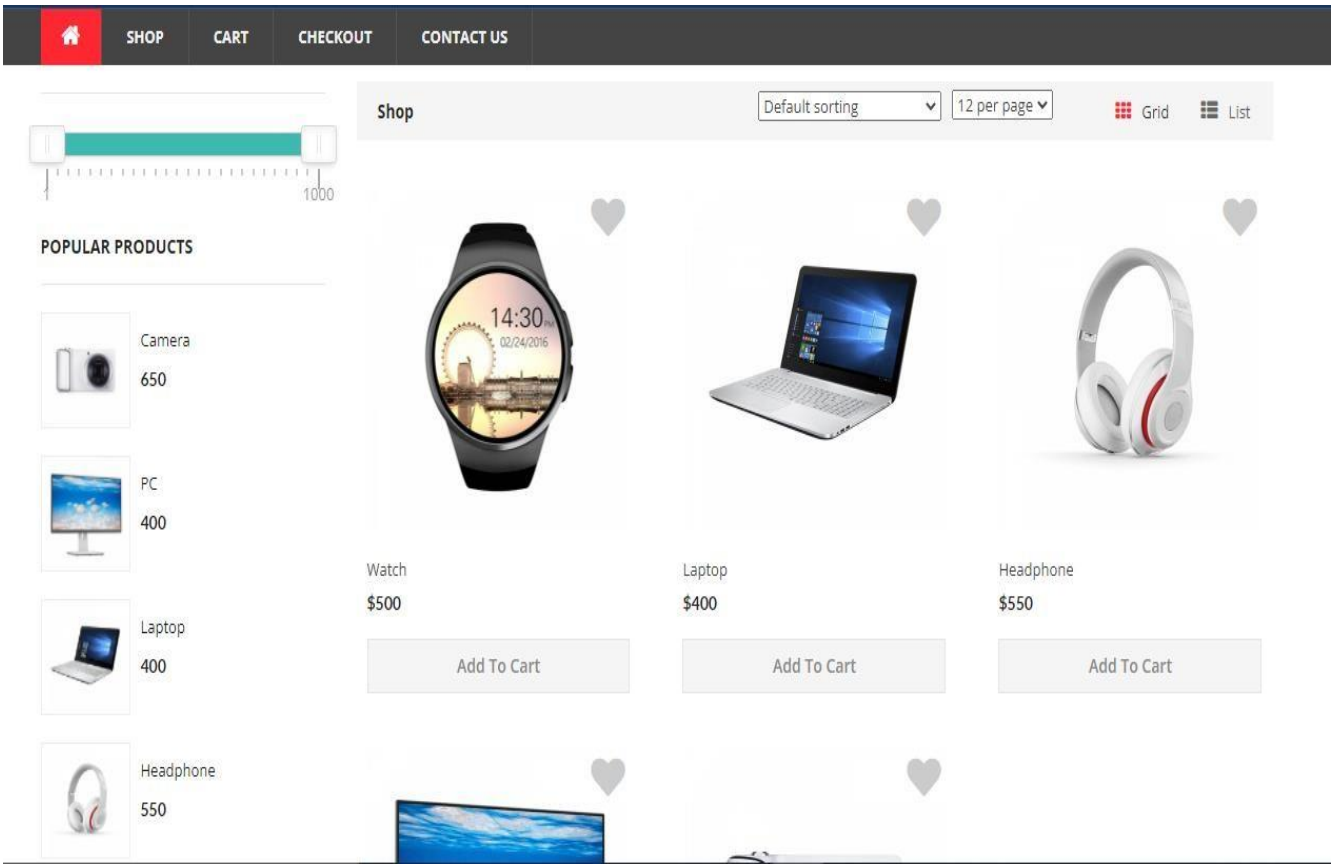

Figure: 1.13 Shop Page

This is Cart Page:

Customer can visit this cart page after adding a product to their cart.

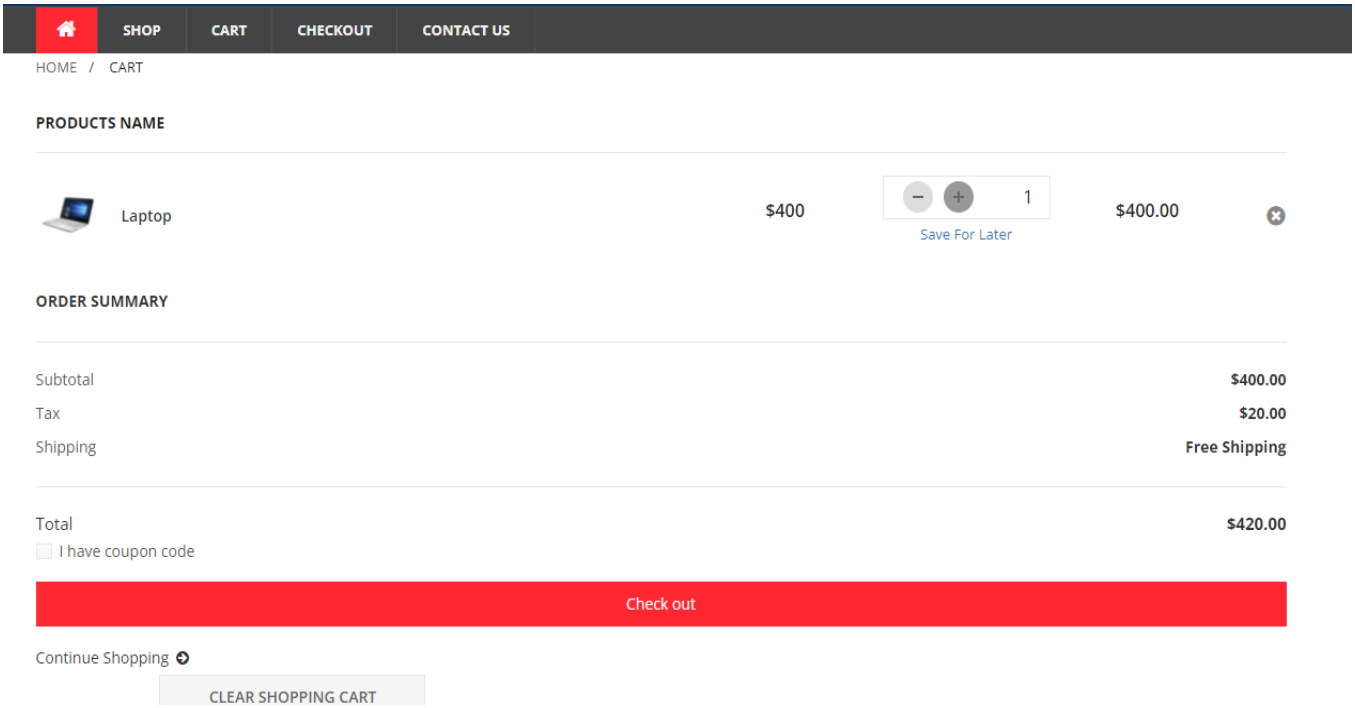

Figure: 1.14 Cart Page

Checkout Page:

The customer can enter her billing information on this page to complete the purchase.

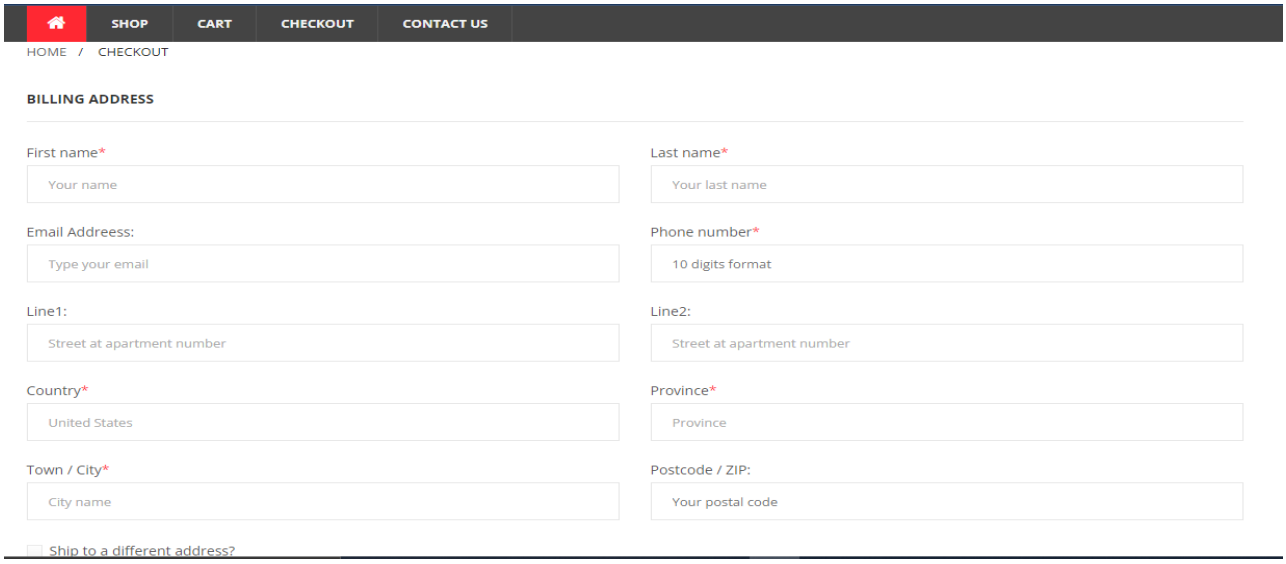

Figure: 1.15 Checkout Page

Payment Method:

Customers can choose a payment option here.

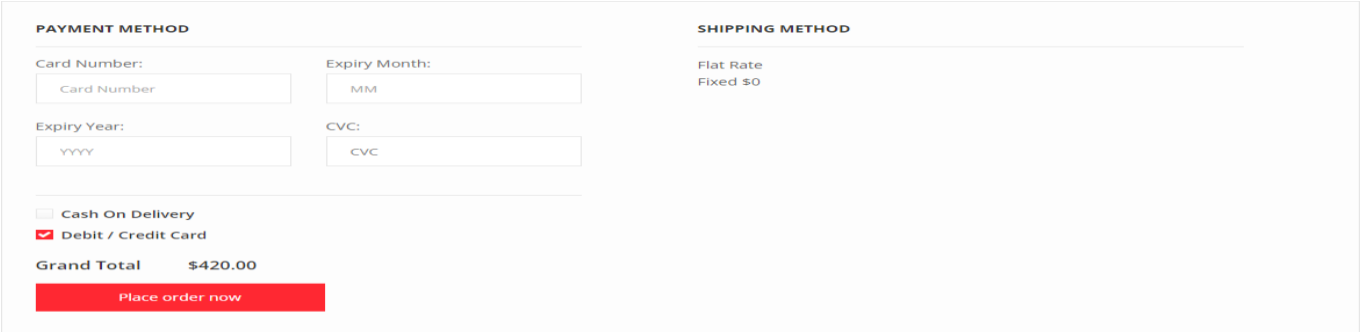

Figure: 1.16 Payment Method Page

Chapter 6: Experience and Achievements

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Overcome Problem and difficulties:

I had weaknesses in my expertise as a newbie before joining CODEXCUBE.COM. It takes some time for me to become qualified to work for an organization. My internship experience was quite difficult for me. I used to leave the office late. I make an effort to complete the tasks for each day. I sometimes have to work from home since I don't. But I succeeded. The Codeigniter framework first caused me problems because I was unfamiliar with it. Furthermore incapable of resolving the issue the first time. As was unsure of how to start working on it. The project manager then assisted me. Additionally, I looked up resources on Google. I have gained a lot of knowledge about working life, professional success, and interpersonal dynamics. There were some difficulties for me because I was just starting my professional career.

Ability to learn:

People can change to become immortal or standardized. In my instance, I also underwent a significant transformation. I have a remarkable capacity for learning, in one way or another. Computers forced me to learn about a few contemporary tools and technologies in a group setting, which was a really effective approach to learn about software development quickly.

Working Practice:

I have put several things to practice throughout my internship to improve my skills. I also gained improved expertise regarding customer service there. I now know how to provide customer service. Below are some of my work-related areas:

Web Development:

I have worked on web development since I first started working for this company. The software development life cycle is something I now know. I have studied the creation of high-quality software. I utilize the following technologies: SQL, HTML5, CSS5, JavaScript, & the Codeigniter framework.

Design Pattern:

In my project, I strive to use design patterns. It supports the continued maintenance of code reuse.

Technology Enhancement:

Although technology is improving daily, it is not very secure. The challenge I've encountered is figuring out how to offer security for real-world projects. The terms Codeigniter sanctuary, livewire, and voyager admin package are among the technical ones I learn.

Non-technology Growth:

Soft skills, often known as non-technical development, are what elevate technical approaches and skill.

- At the office, a strong work ethic.
- Positive Mentality.
- Effective Communication Skills
- Time-management skills
- Work as a team.

Achievement:

When a someone puts forth effort in their professional lives, the outcome must be discovered at a specific point in time after. I also accomplished my objective. When I first started working for this organization, I had a number of problems, like showing up at the office on time and finishing the allotted work quickly. When I get over all of that lack. While I was hired for that project, I too ran into technical issues when using things like Codeigniter, the admin package, MySQL store procedures, etc. Moving forward with these challenges required some time. Working in this industry has helped me obtain both technical and non-technical expertise. which will really help me to succeed later in my working life. Because of my internship, I have a better sense of time and am more productive when working on projects that have been given to me.

For my success, I'd want to thank my boss, my project manager at CODEXCUBE.COM, and my lecturers at Daffodil International University.

Chapter 7: Conclusions & Recommendations

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Summary:

One of the top companies offering software development services is CODEXCUBE.COM. By comprehending and meeting their needs, as well as cooperating with them to offer one-stop, quicker, more affordable, and scalable services, they make sure their clients are successful. With the CODEXCUBE.COM software development team, I have worked. Numerous research findings and analyses that could lead to future business growth were discussed in this article. I have gained practical knowledge of software development through this study. In addition to letting me know about the business culture, this report has given me a thorough understanding of how to advance in my future venture. As a closing point, I would remark that CODEXCUBE.COM's hiring procedure is also up to date and harmonious when compared to those of other businesses in the sector.

Finding & Contributions:

Before beginning this internship, I had taken numerous university classes that had taught me a lot of things that would be helpful in carrying out the duties of my internship with this company. Through this internship, I'm learning about the software development life cycle and getting the chance to apply what I've learned to a variety of projects and real-world issues.

I became accustomed to the technologies and the professional work culture thanks to this internship program. It has aided in the development of my analytical abilities, independent decision-making, and sound judgment. Business process assisted me in identifying and resolving various problems that would have been intractable during team talks and brainstorming sessions.

Recommendation for Future work:

For recent graduates, the job market is competitive, particularly in nations like Bangladesh. There are numerous students who graduate each year as a result. But the majority of them

were unable to land their ideal careers. One of the main causes of this problem is that they lack expertise dealing with a professional or business environment.

We can solve this problem and apply it to our working lives. This would be a fantastic internship option for recent graduates. As a newbie, I also have a number of disadvantages that may get me into a lot of problems if I didn't get the chance to finish the internship.

Reference

1. **Company website address: http://codexcube.com/**
2. https://github.com/Mizanur-Rahman07/grocery_website