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An Undergraduate Internship/Project on E-commerce Project

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An Undergraduate Internship/Project on E-commerce Project

By

Rafsan Raiyan

Student ID: **1930100**

Summer, 2023

Supervisor:

MD. Tarek Habib

Assistant professor

Department of Computer Science and Engineering

Independent University, Bangladesh

October 01, 2023

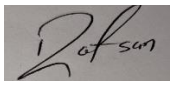
Dissertation submitted in partial fulfillment for the degree of
Bachelor of Science in Computer Science

Department of Computer Science and Engineering

Independent University, Bangladesh

Attestation

This is to certify that Rafsan Raiyan (ID- 1930100) completed and submitted the report titled "E-Commerce website named E-Lectronix" in partial fulfilment of the requirement for the degree of Computer Science and Engineering from Independent University, Bangladesh (IUB). Md. Tarek Habib of IUB served as the internal supervisor, and Rakib Ibna Hamid Hossain of 'Appnap Technologies Limited' served as the external supervisor. I can verify that all the work shown in this report is 100% original and was obtained during my internship. E-Commerce website has been completed by me solely. I did front-end work using HTML/CSS/JS and for back-end work using Laravel framework and for database connection I'm using MySQL.
I used some templates from the bootstrap documentation directly from their website, and I followed online tutorials for better customization and guidance.



Signature

1-10-2023
Date

Rafsan Raiyan

Name

Acknowledgement

I want to start by expressing my gratitude to the Almighty Allah for this chance.
I would like to thank Mohammad Nurul Amin, Managing Director/CEO, of Appnap Technologies Limited for giving me this opportunity to do an internship with the organization.
I would like to thank Rakib Ibna Hamid for giving me the constant assistance and advice as my external supervisor.
I'd like to express my gratitude to MD. Tarek Habib, Internal Supervisor, Assistant professor, Department of Computer Science and Engineering, Independent University Bangladesh (IUB), for his constant assistance and advice.
I am incredibly appreciative of the department employees and friends who assisted me in finishing this internship.

Letter of Transmittal

October 01, 2023

Subject: Submission of Final Internship Report on E-Commerce Project in Compliance with Graduation Requirements.

Dear Sir,
With all due respect, I am submitting this document as part of the requirements for my computer science and engineering bachelor's degree. It is a great honor to have had the chance to work under your outstanding direction. This report was developed as a result of my three-month internship at Appnap Technologies Limited and the project I worked on during that time. This report was created to fulfill the undergraduate requirements in Computer Science and Engineering. My stay with the firm has provided me with a better understanding of corporate life as well as collaboration. I will be glad if the report I created achieves its goal. This report, in my opinion, will help my internship program achieve its purpose.

I would be extremely grateful if you could evaluate the report and provide your priceless input. If you thought the report was helpful and gave you a better understanding of my internship experience, it would be a wonderful honor.

Yours sincerely,
Rafsan Raiyan
ID: 1930100

Evaluation Committee

Supervision Panel

Academic Supervisor Dr. Md. Tanek Habib	Industry Supervisor

Panel Members

Panel Member 1 Md. Fahad Monir	Panel Member 2 Mr. Sajed Imtenanul

Office Use

11-10-23 Program Coordinator Subrata kumar Dey	11/10/23 Head of the Department Mahady Hasan

Abstract

Appnap Technologies Limited, better known as Appnap, is a software company based on Dhaka, Bangladesh. Appnap provides a wide range of professional services to both local and international market including website building, video streaming platform, mobile application, web application, e-commerce websites and apps, user experience and user interface design, business research. During my internship, I played a key role in building an e-commerce website, an essential service in Appnap's offerings. This hands-on experience helped me turn classroom learning into practical skills and collaborate closely with experienced experts to grasp the ins and outs of effective online shopping platforms.

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4 Six Element Analysis
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Chapter 1

Introduction

1.1 Overview/Background of the Work

A website has become increasingly essential for any company in this era of digitalization and automation. The project to which my supervisor, Rakib Ibna Hamid at Appnap, has assigned me is the create an E-Commerce shop website. I will be working independently to develop this project. The website will offer a wide range of products for users to browse and purchase. It will feature various categories and products, and users will get the option to add items to the cart and complete the purchase through a cash-on-delivery system. Additionally, an admin control system will be implemented, enabling the admin to add, display, and update both products and categories.

1.2 Objectives

The goal of the project is to create a professional and industry-based E-Commerce website with the objective of ensuring a smooth and user-friendly purchasing experience for customers through a user-friendly and responsive design with login and multiple times register option.

1.3 Scopes

Some of the features that will be made available to users during this project's development are listed below:

- Homepage
- Login Page
- Register Page
- Show Products Pages
- Add to Carts
- Payment option

Chapter 2

Literature Review

2.1 Relationship with Undergraduate Studies

As an aspiring computer Scientist, being a developer is one of my aspirations. All the courses I have completed have helped immensely in understanding the technicalities. In addition, knowledge gained from courses like software engineering, database management, and System Analysis and Design has been helpful.

2.2 Related works

1. While conducting system analysis and design, I created a project that assisted me in designing and implementing solutions in my fieldwork. I developed an E-commerce project.

2. During my Object-Oriented Programming (OOP) course, I did a course project named Post-Office.

3. In the Web Application course, I made websites for weather forecasting and registration system.

4. In Database Management, I developed a project involving the creation of a database management system for storing and displaying students' data.

Chapter 3

Project Management & Financing

3.1 Work Breakdown Structure

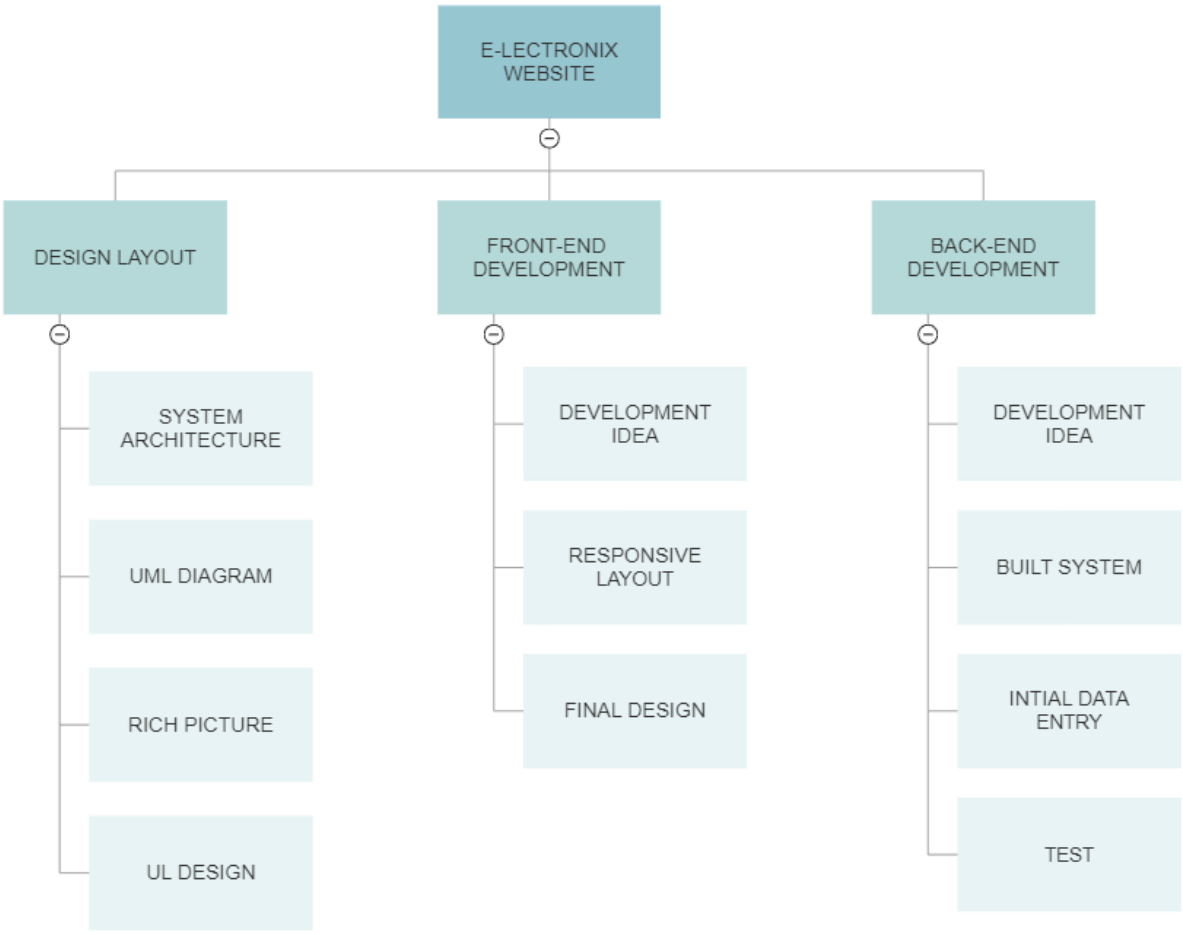


Figure 2 Work Breakdown Structure

3.2 Process/Activity wise Time Distribution

ACTIVITY	DAYS	PERCENTAGE
DESIGN	10	10%
PROJECT BREAKDOWN	5	10%
FRONT-END	15	30%
BACK-END	20	30%
TESTING	5	10%
BUG FIXING	5	10%
TOTAL	60	100%

Table 5 Activity wise time distribution

3.3 Gantt Chart

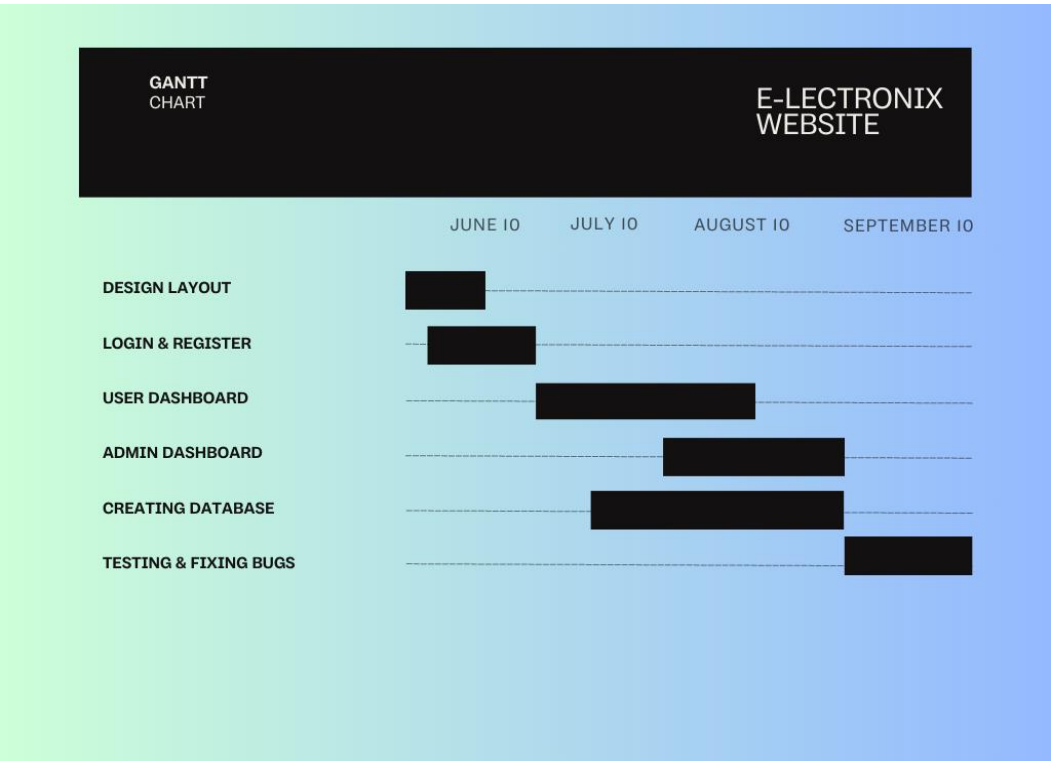


Figure 2 Gantt Chart

3.4 Process/Activity wise Resource Allocation

TEAM MEMBER	PAX	APPROX. SALARY
SENIOR FULL STACK DEVELOPER	01	80000
UI/UX DESIGNER	01	40000
SYSTEM ANALYST	01	30000
BUSINESS ANALYST	01	30000
MARKETING TEAM	01	40000
TRAINEE FULL STACK DEVELOPER	10	7000

Table 6 Activity wise Resource Allocation

3.5 Estimated Costing

SERIAL NO.	DISTRIBUTION	COSTING
01	DEVELOPMENT TEAM	150,000
02	UI/UX DESIGNER	40000
03	SYSTEM ANALYST	30000
04	BUSINESS ANALYST	30000
05	MARKETING TEAM	40000
	TOTAL	290,000

Table 7 Estimated Costing

Chapter 4

Methodology

A simple and effective strategy for incorporating a business demand into software solutions is the agile software development methodology. Agile software development techniques emphasis early delivery, team participation, evolutionary development, and continual planning and improvement. It encourages a capacity for change and adaptability. The fundamental tenets of the Agile methodology are:

Please the customer by providing useful software Recognize and embrace change, especially if it comes at a late stage in the development process. Continue to produce usable software in regular, small-steps-based releases. Encourage regular collaboration between customers and analysts. Adopt agility while closely monitoring mindful growth.



Fig. Agile Model

Chapter 5

Body of the Project

5.1 Work Description

At Appnap Technologies Limited, I am currently working on an e-commerce project. My goal is to provide a seamless platform for customers to explore and purchase a wide range of products through web and mobile applications. As an intern, I focus on building a full-stack web development project. For the front-end, our aim is to create a seamless platform for customers to explore and purchase products through web and mobile applications. I have also incorporated modern web technologies like jQuery to enhance the user experience and Bootstrap for efficient and consistent styling across the platform. On the backend, I use the Laravel framework, which is a popular PHP framework. Laravel enables us to efficiently handle user authentication, product management, order processing, and more, ensuring the smooth operation of our e-commerce platform.

5.2 Requirement Analysis

Rich Picture

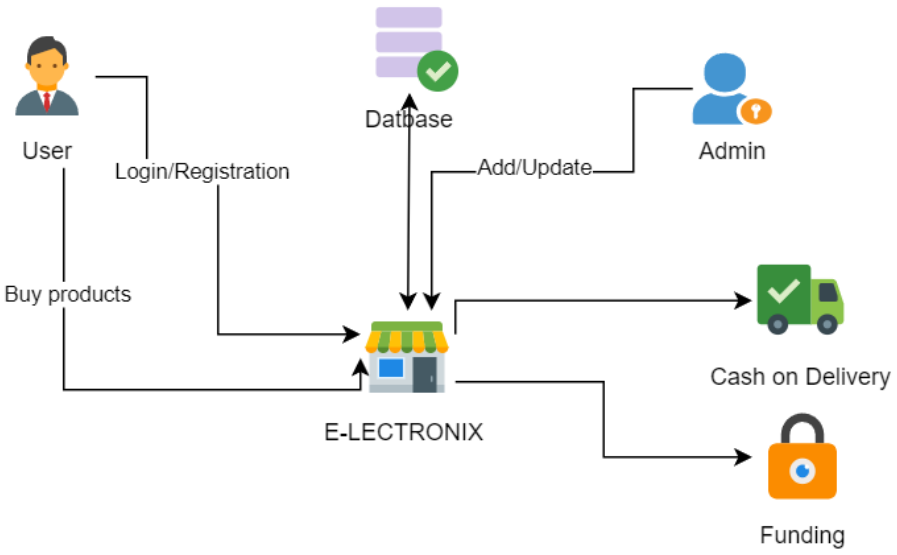


Figure 3 Rich Picture

Functional and Non-Functional Requirements

Functional Requirements

- The user may log in and open multiple accounts.
- User can show and buy products from different categories.
- Contact form
- Admin can add/edit/update products and categories.
- Admin can show orders and update delivery status

Non-Functional Requirements

- Responsiveness
- User Friendly Interface
- Lightweight website making
- Achieving customer satisfaction to give quality service
- Maintaining the website continuously
- Readable code writing that can be understanding by any developer

5.3 System Analysis

5.3.1 Six Element Analysis

	SYSTEM ROLE					
PROCESS	HUMAN	NON-COMPUTING & HARDWARE	COMPUTING & HARDWARE	SOFTWARE	DATABASE	NETWORK & COMMUNICATION
USER REGISTRATION	USER	N/A	COMPUTING DEVICE CONNECTED WITH INTERNET	WEB BROWSER	MYSQL	RELIABLE INTERNET
USER BUY PRODUCTS	USER	N/A	COMPUTING DEVICE CONNECTED WITH INTERNET	WEB BROWSER	MYSQL	RELIABLE INTERNET
ADMIN ADD/UPDATE PRODUCTS	ADMIN	N/A	COMPUTING DEVICE CONNECTED WITH INTERNET	WEB BROWSER	MYSQL	RELIABLE INTERNET
ADMIN MONITOR USER'S DATA	ADMIN	N/A	COMPUTING DEVICE CONNECTED WITH INTERNET	WEB BROWSER	MYSQL	RELIABLE INTERNET
SUBMIT FORMS	USER	N/A	COMPUTING DEVICE CONNECTED WITH INTERNET	WEB BROWSER	MYSQL	RELIABLE INTERNET

Table 8 Six Element Analysis

5.3.2 Feasibility Analysis

Because it demonstrates a group's desire to "get it right" before devoting resources, time, or money, a feasibility study is significant. A viability study might uncover novel concepts that completely alter the project's scope. Prior planning is preferable to starting the project and discovering it won't work. A feasibility study is always beneficial for the project because it aids in understanding for both you and other stakeholders. We conducted a feasibility study for our project to make sure it would be successful in the marketplace. What we did was as follows:

Technically possible This evaluation is mostly about the technical resources of the company. It helped us figure out if we had enough resources and if the technical team could turn ideas into systems that work.

The ability to make money Most of the time, this assessment includes a cost/benefits analysis of the project. This helps our company figure out if the project is viable and what its benefits are.

Legally possible This evaluation checks to see if any part of the planned project goes against the law, such as zoning laws, data protection acts, or social media laws.

The ability to do something as part of this assessment, we will do a study to figure out if and how well the project will meet the needs of our company.

Planning if it's possible This evaluation is the most important for making sure the job goes well. In scheduling feasibility, our group calculated how long it will take to finish our project.

5.3.3 Problem Solution Analysis

Requirements are constantly converting is certainly one of the largest troubles a web developer must cope with all through the web development technique. To analyze a problem, it's miles necessary to first pick out the principal trouble and then determine its assets and results. During this challenge, we have faced some issues which can be stated beneath:

• The fact that the requirements are always changing is one of the most challenging problems during the web development process, a web developer must deal with various issues. The solution was calling a group meeting for confirmation prior to development.

• During this project, git integration caused some unexpected issues with branch maintenance, etc.

• As technology advances, being in today’s world where everyone is attached to their smartphones. Keeping up with market trends is the solution here.

5.3.4 Effect and Constraints Analysis

During any website development there are a handful of constraints that need to bekept in mind. For example, budget, deadline, unique design and features, etc. In this project, it was budget and design. When developing a website, considering the end-userin mind is the most important task. Each client is unique in their own way. Before webegin designing, we must do research and have a knowledge of our target audience. Ittakes almost 10 to 15 working days to finalize a design. The final design and the first mockup for this project looked like two different websites.

5.4 System Design

A technique used by businesses to create and maintain the infrastructure that supports their core operations. By using computer-based solutions for critical business tasks, the main objective is to raise employee productivity. A planned strategy must be applied in order to ensure success.

5.4.1 UML Diagrams

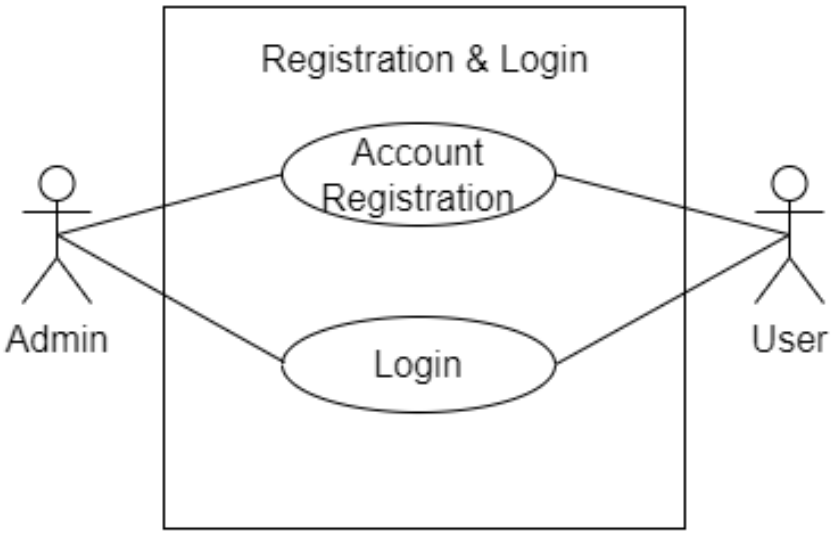


Figure 4 Use Case

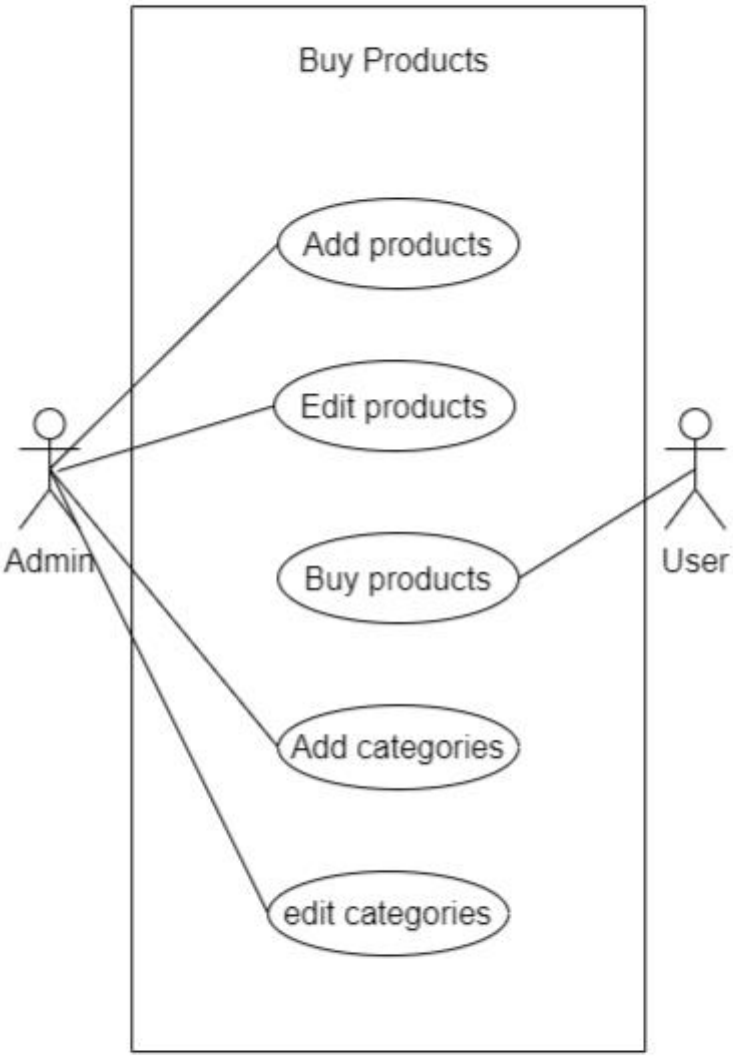


Figure 5 Use case

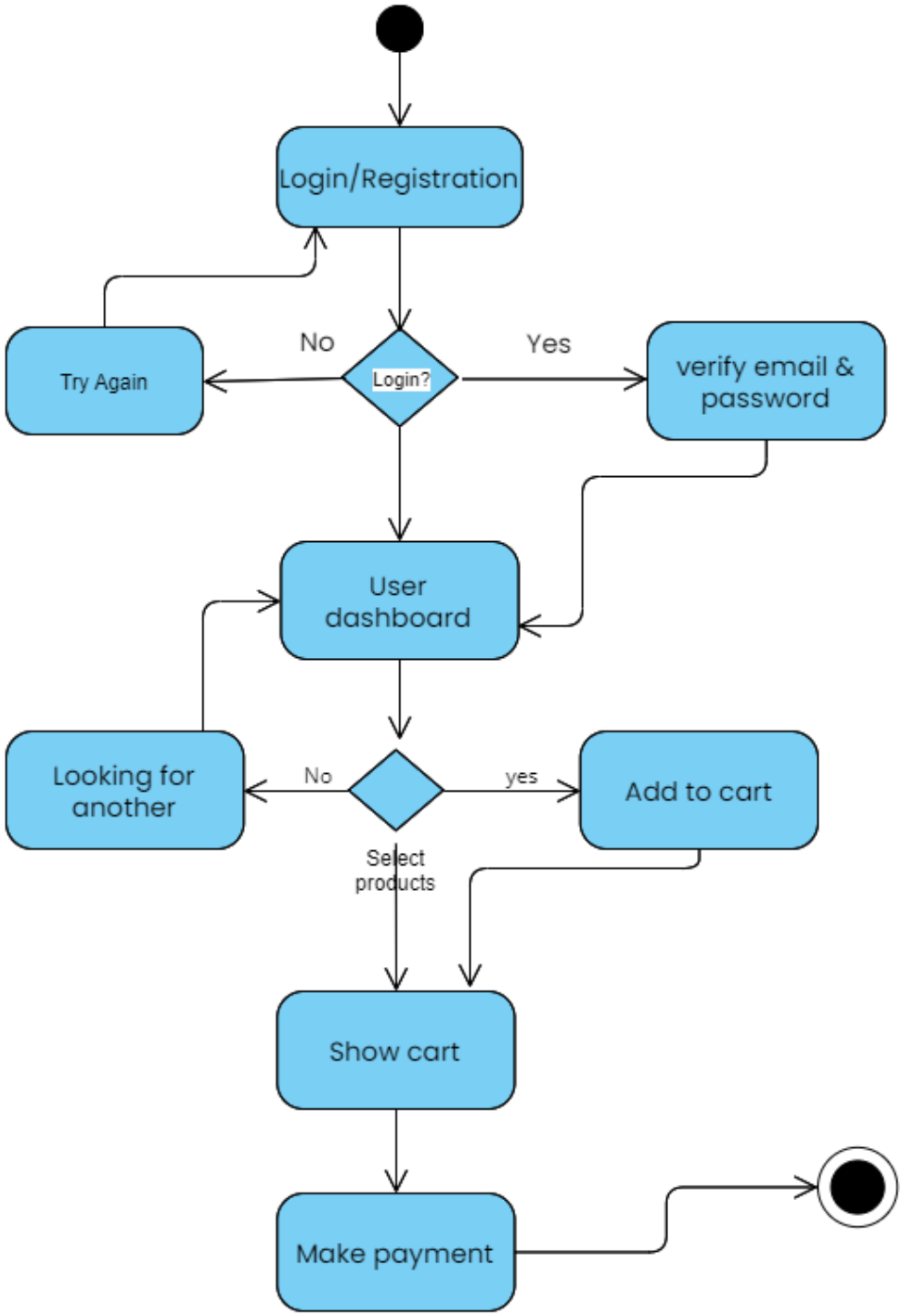


Figure 6 User Activity diagram

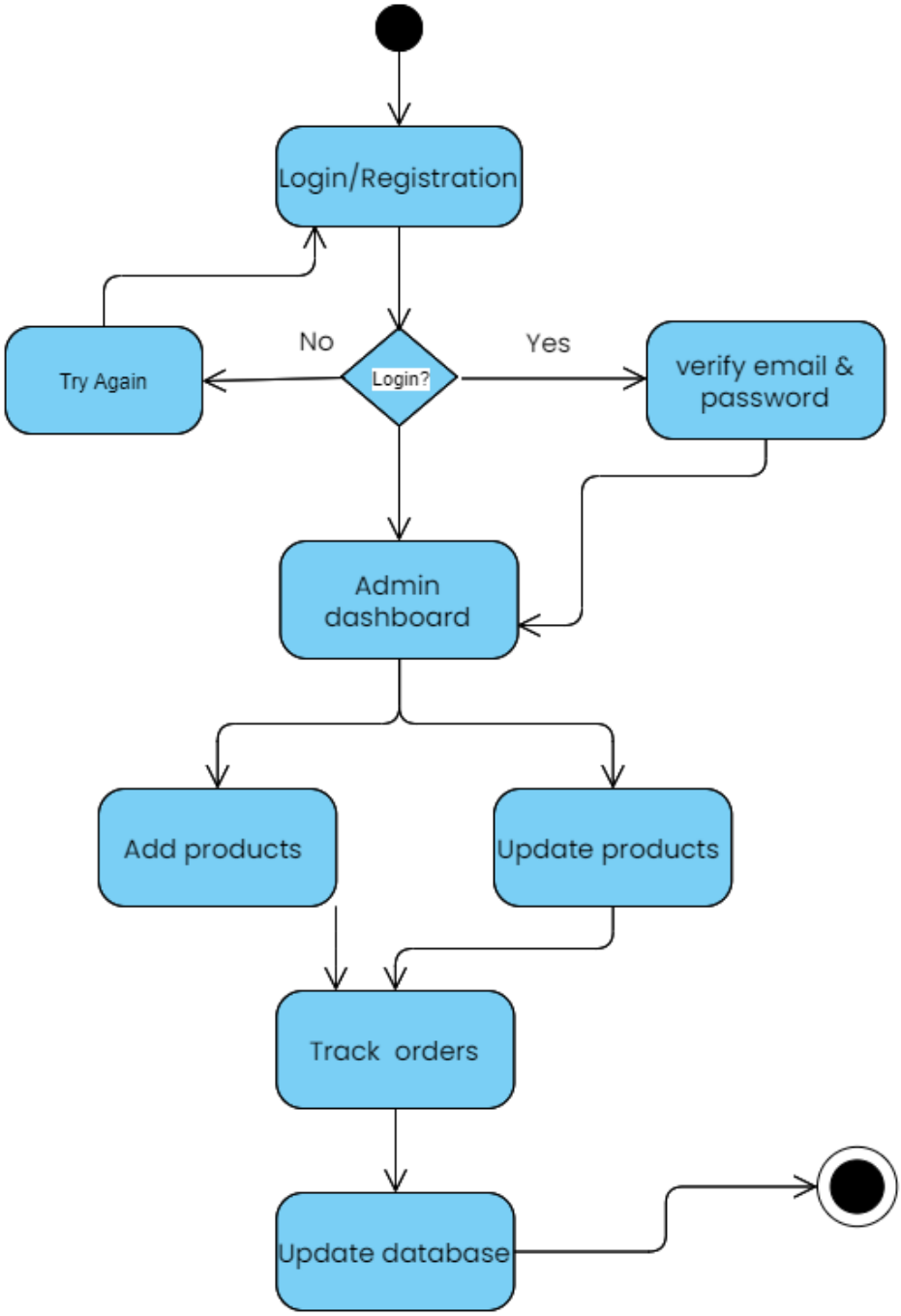
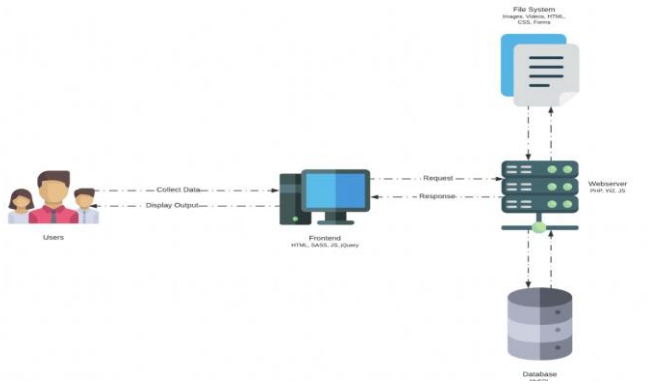


Figure 7 Admin Activity Diagram

5.4.2 Architecture



5.5 Implementation

5.6 Testing

The following functionalities are connected with database and have been tested for this particular website:

- Login
- Registration
- Add Products
- Add Categories
- Add to Carts
- Confirm Order

5.6.1 Input

The data input types for the e-commerce webapp are shown in the following table:

Process	Field Type
Registration	name- string email- string phone- integer address- string password- string
Login	email- string password- string
Add Products	code- string name- string price- integer discount price -integer
Add Categories	code- string category name- string
Add to Carts	name- string product title- string quantity- integer price – integer user id - string
Confirm Order	name- string product id - integer delivery status - string payment status - string

Table 9 Input

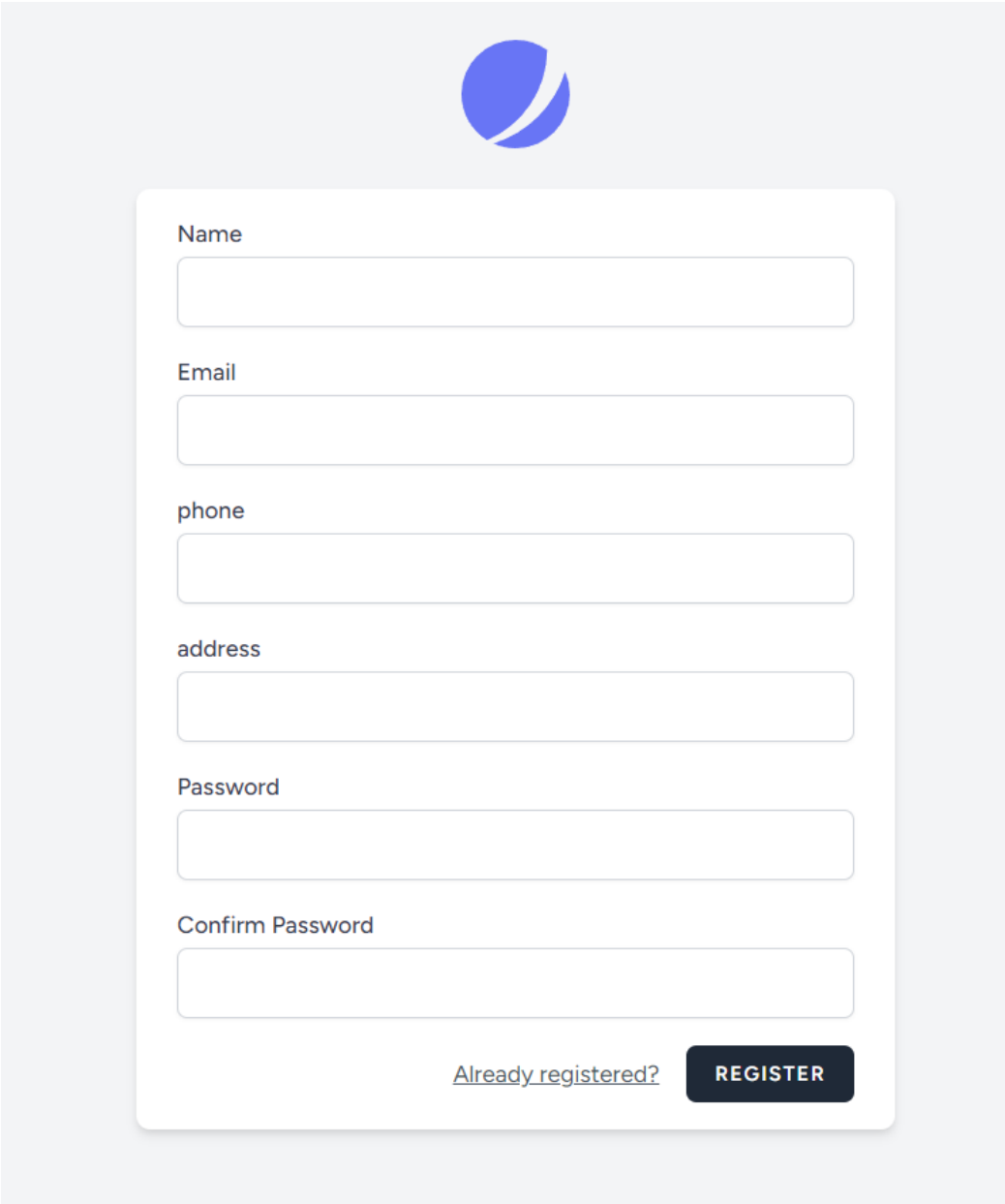


Figure 8 User Registration

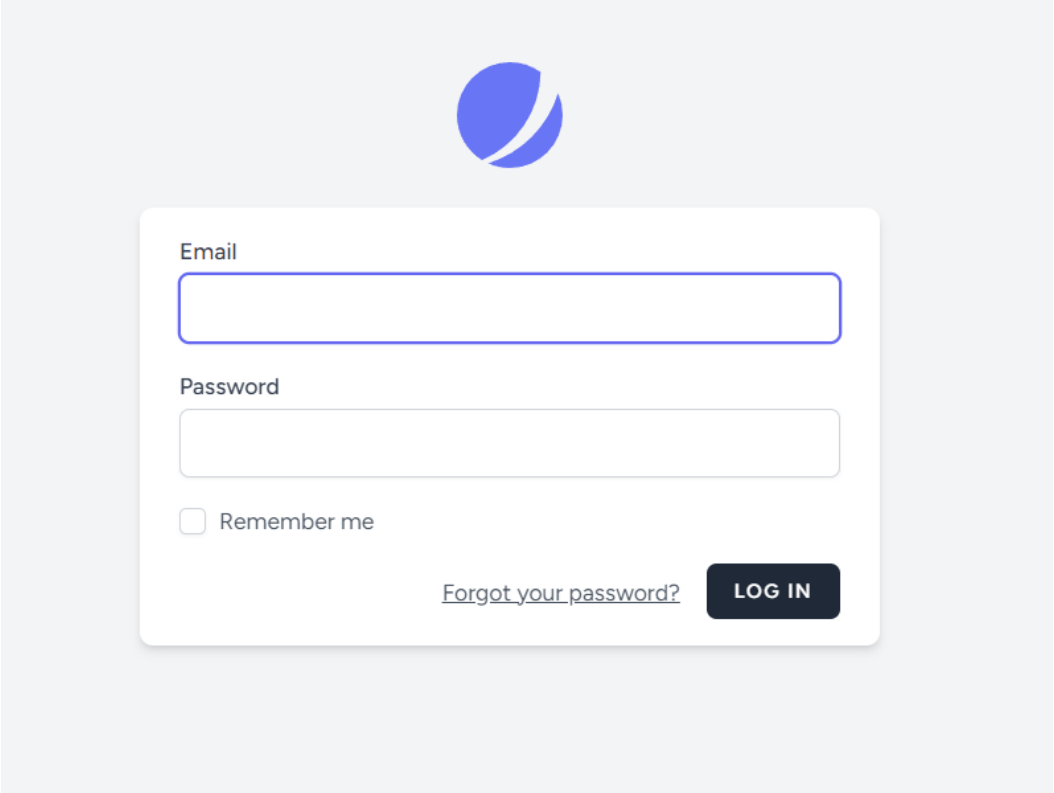


Figure 9 User Login

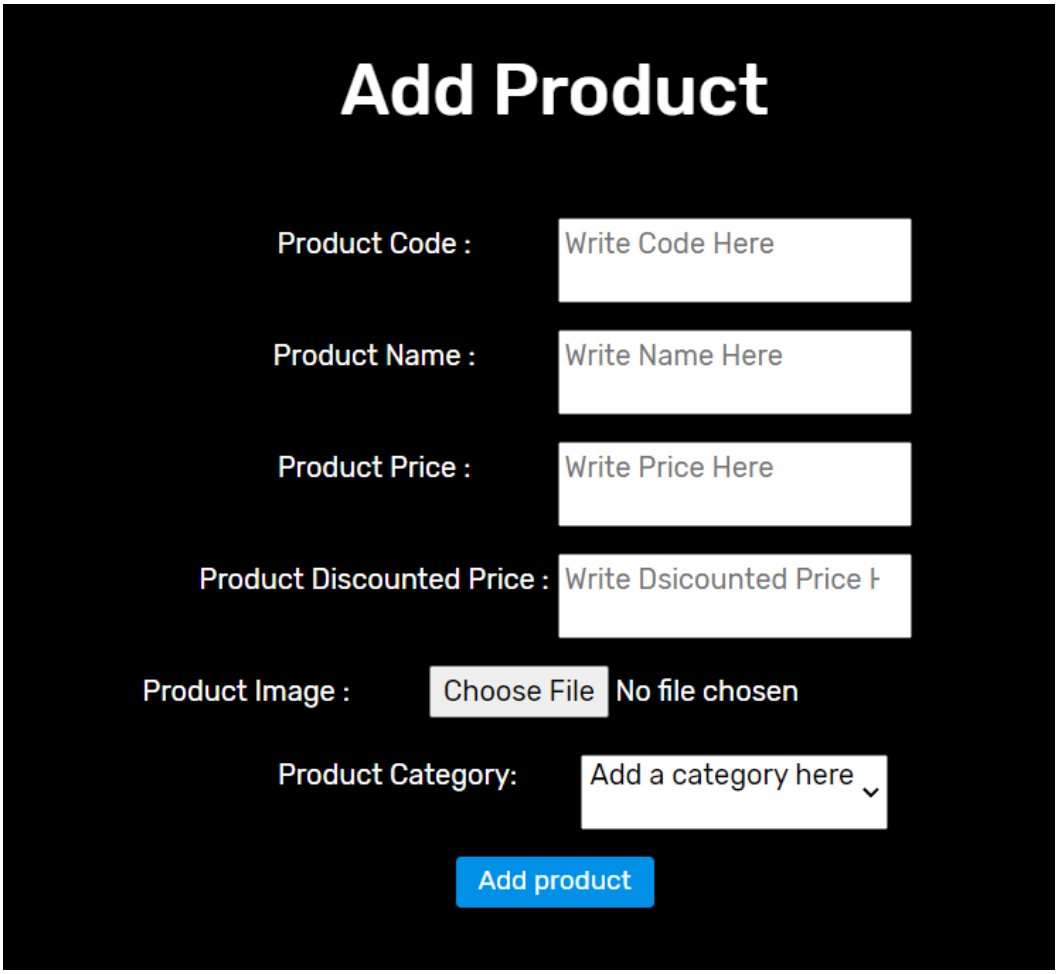


Figure 10 Add Products

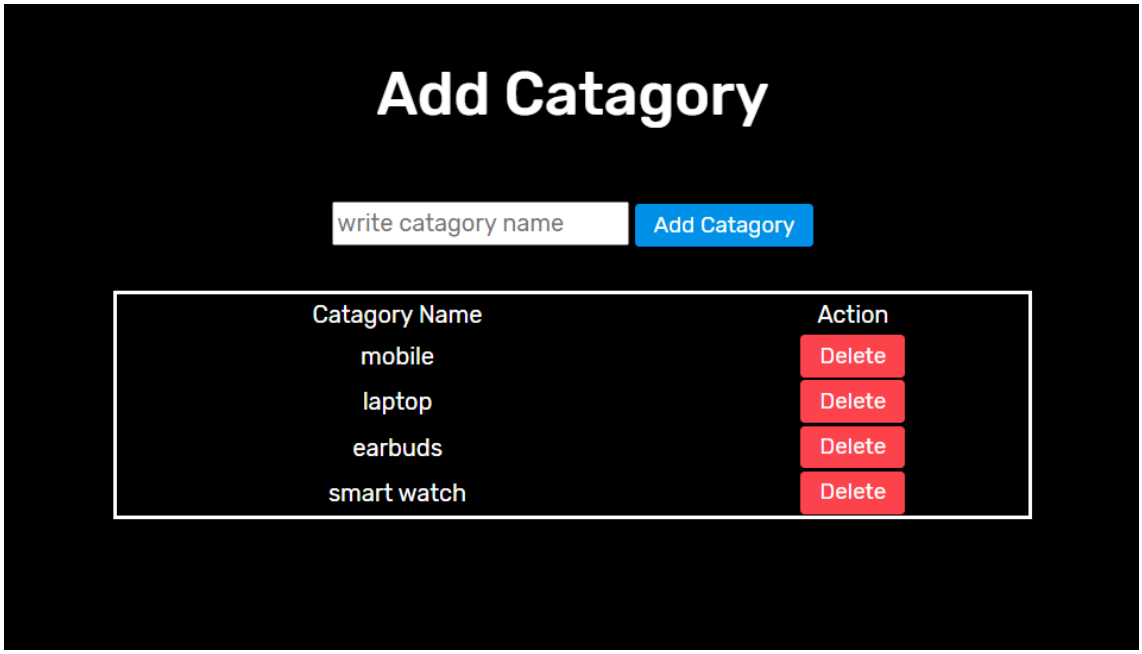


Figure 11 Add Category

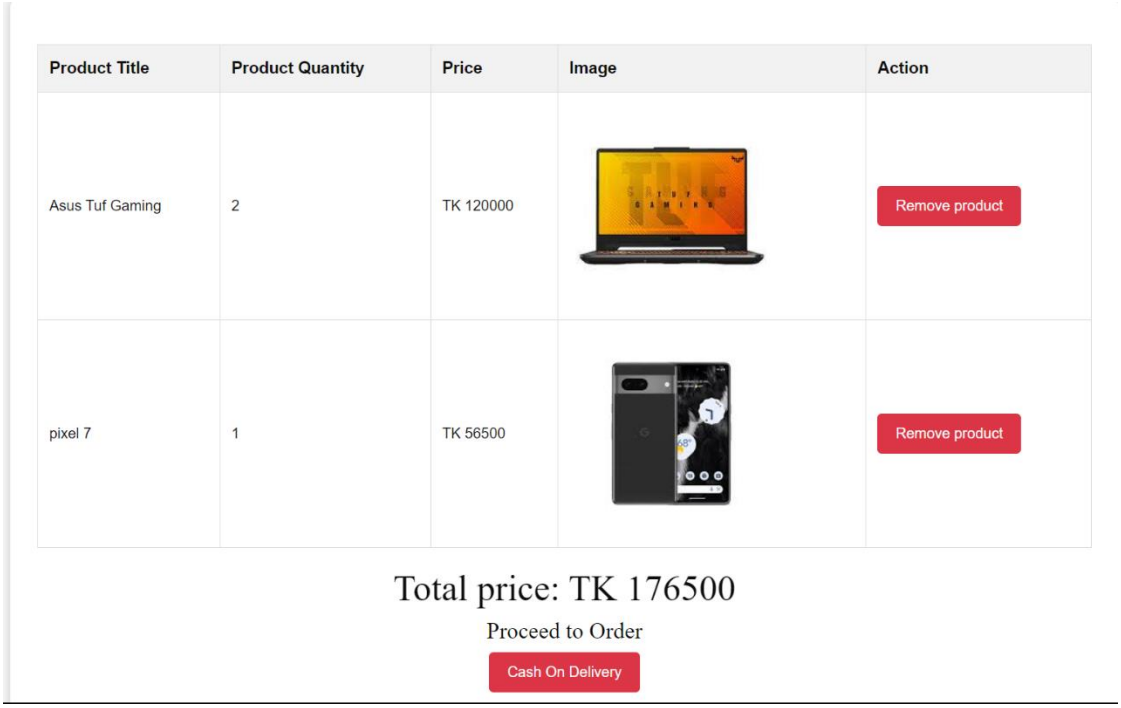


Figure 12 Add to Cart

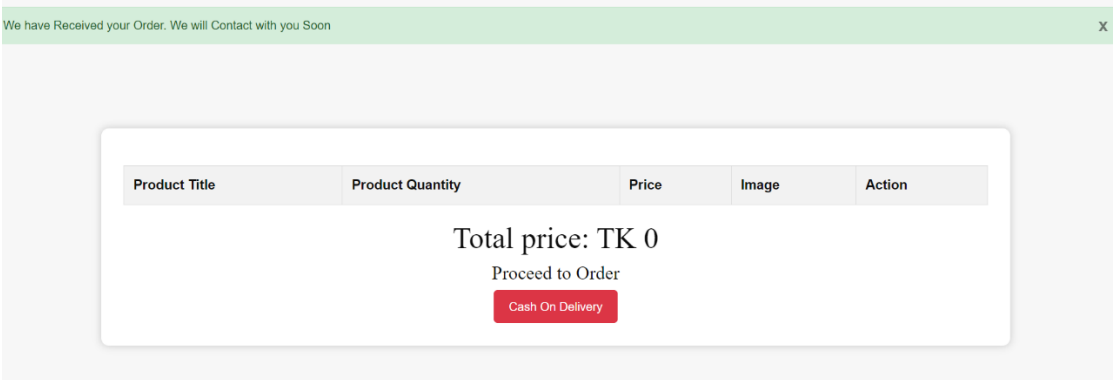


Figure 13 Confirm Order

5.6.2 Output

	id	name	email	usertype	phone	address	email_verified_at	password	two_fa
Edit Copy Delete	1	Rafsan Raiyan	rafsanraiyan00@gmail.com	0	01625840993	bashundhara R/A House 17/k road 9 block G	NULL	$2y$10$5bolpwsyA13EL.2wLQrrUO8uruDEb1yd9NC5Xr46zvo...	NULL
Edit Copy Delete	2	Rafsan Raiyan	admin@gmail.com	1	01625840993	bashundhara R/A House 17/k road 9 block G	NULL	$2y$10$OWRaVfydHFho7ZIKOoambeCs2CeOhJ1W7cBlzVjxt9Z...	NULL
Edit Copy Delete	3	Tanvir	tanvirratul777@gmail.com	0	01704595286	bashundhara R/A House 17/k road 9 block G	NULL	$2y$10$kxlM/vhH0JenwKGN82JBEuPm3aMnug8mOkZ8.mjzekz...	NULL

Figure 14 User Registration & Login

+ Options

	id	code	name	image	catagory_nam
Edit Copy Delete	1	mob01	samsung s23	1693327059.jpg	mobile
Edit Copy Delete	2	lap01	Asus Tuf Gaming	1693327161.jpg	laptop
Edit Copy Delete	4	mob02	pixel 7	1693327274.jpg	mobile
Edit Copy Delete	5	mob03	Iphone 14	1693327376.jpg	mobile
Edit Copy Delete	6	lap03	Macbook pro m1	1693327465.jpg	laptop
Edit Copy Delete	7	mob04	iphone 13 pro	1693503875.jpg	mobile

Figure 15 Product details

+ Options

	id	catagory_name	created_at	updated_at
Edit Copy Delete	1	mobile	2023-08-27 19:26:08	2023-08-27 19:26:08
Edit Copy Delete	2	laptop	2023-08-27 19:44:32	2023-08-27 19:44:32
Edit Copy Delete	3	earbuds	2023-09-09 16:18:49	2023-09-09 16:18:49
Edit Copy Delete	4	smart watch	2023-09-09 16:25:17	2023-09-09 16:25:17

Figure 16 Category Details

Options

	id	name	email	phone	address	user_id	product_title	quantity	price	image	product_id	payment_status	deliver
Edit Copy Delete	10	Rafsan Raiyan	rafsanraiyan00@gmail.com	01625840993	bashundhara R/A House 17/k road 9 block G	1	zenbook	3	20000	1693326832.jpg	3	paid	delivere
Edit Copy Delete	11	Rafsan Raiyan	rafsanraiyan00@gmail.com	01625840993	bashundhara R/A House 17/k road 9 block G	1	mob02	3	58000	1693327274.jpg	4	paid	delivere
Edit Copy Delete	12	Rafsan Raiyan	rafsanraiyan00@gmail.com	01625840993	bashundhara R/A House 17/k road 9 block G	1	lap02	2	15000	1693326832.jpg	3	paid	delivere
Edit Copy Delete	13	Rafsan Raiyan	rafsanraiyan00@gmail.com	01625840993	bashundhara R/A House 17/k road 9 block G	1	lap02	2	30000	1693326832.jpg	3	Cash on delivery	process
Edit Copy Delete	14	Rafsan Raiyan	rafsanraiyan00@gmail.com	01625840993	bashundhara R/A House 17/k road 9 block G	1	mob01	2	200000	1693327059.jpg	1	Cash on delivery	process
Edit Copy Delete	15	Rafsan Raiyan	rafsanraiyan00@gmail.com	01625840993	bashundhara R/A House 17/k road 9 block G	1	Asus Tuf Gaming	1	60000	1693327161.jpg	2	Cash on delivery	process

Console

Figure 17 Order Details

5.6.3 Designing Test Cases

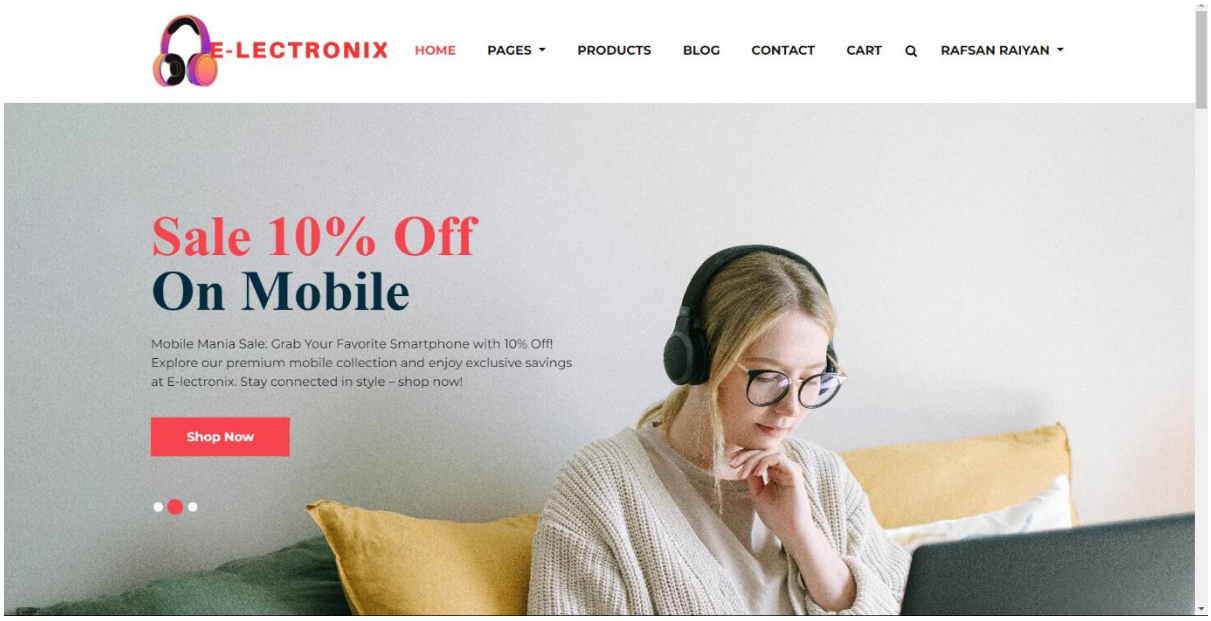
5.6.4 Test Results

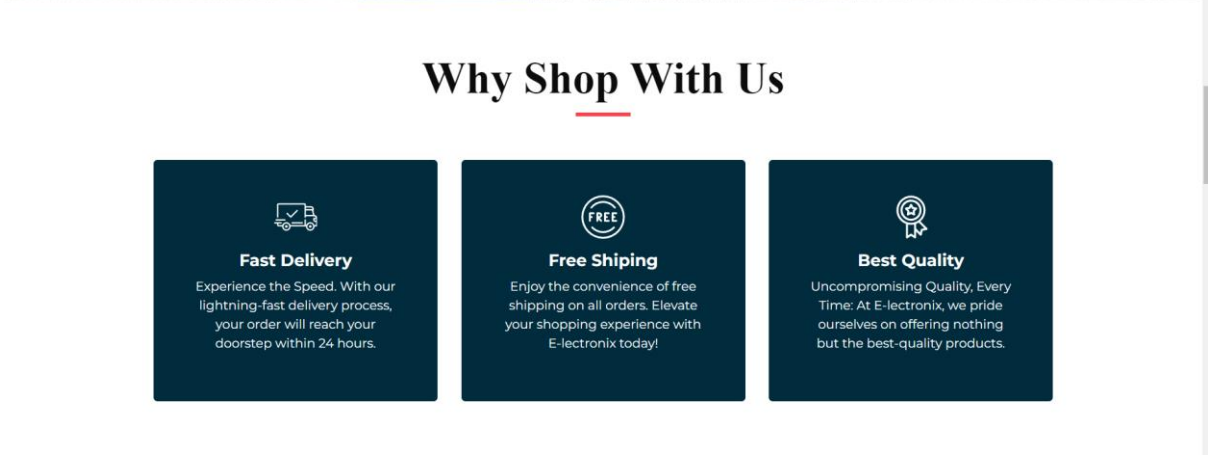
All the features mentioned in functional requirement is working perfectly

Chapter 6

Results & Analysis

Analyses are still being conducted. But now that it has been thoroughly tested using only the bare minimum requirements, it is fully operational. However, real-time user testing is still being created. The executed test cases were recorded, various non-functional requirement-related issues were also discovered and reported.





Our products



samsung s23 Discount price TK100000 ~~Price TK108000~~



Asus Tuf Gaming Discount price TK60000 ~~Price TK65000~~

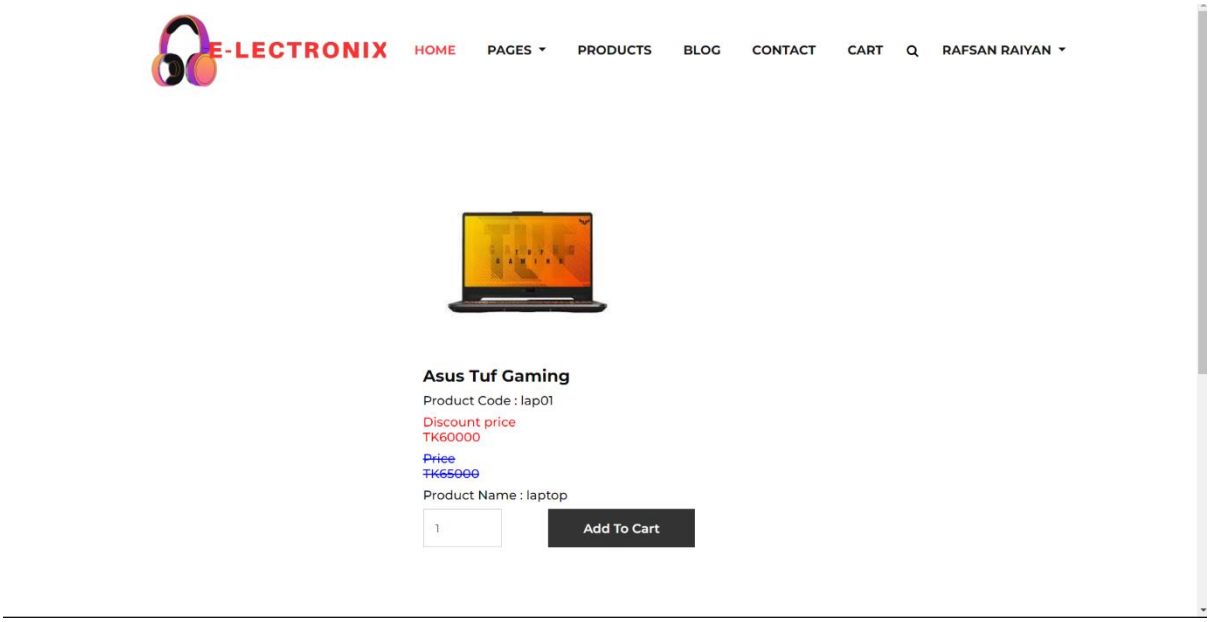


pixel 7 Discount price TK56500 ~~Price TK58000~~







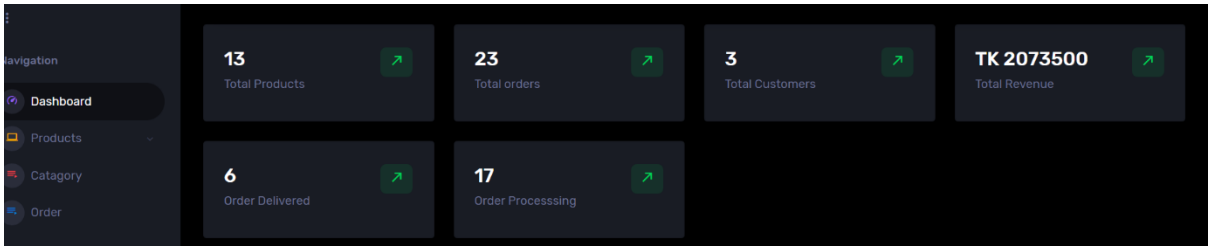


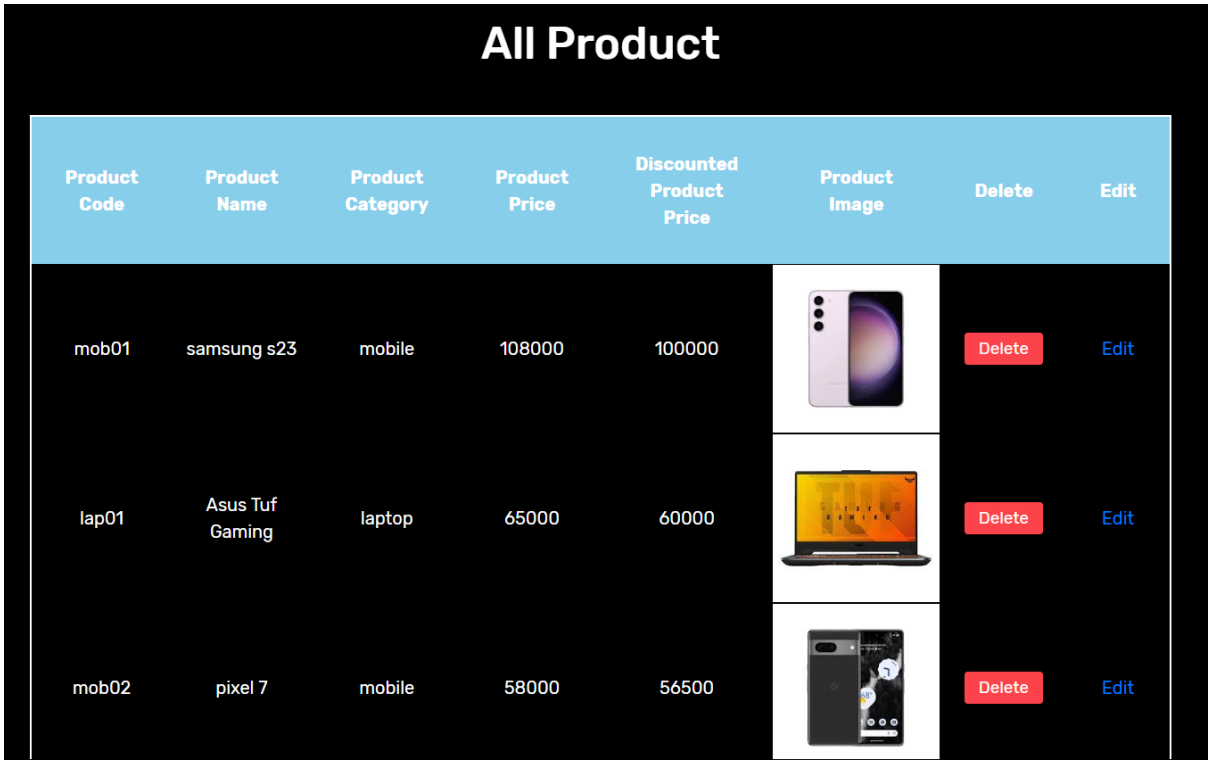
Product Title	Product Quantity	Price	Image	Action
Asus Tuf Gaming	1	TK 60000		Remove product
pixel 7	1	TK 56500		Remove product

Total price: TK 116500

Proceed to Order

Cash On Delivery





All Orders

Name	Email	Address	Phone	Product Title	Quantity	Price	Payment Status	Delivery Status	Image	Delivered
Rafsan Raiyan	rafsanraiyan00@gmail.com	bashundhara R/A House 17/k road 9 block G	01625840993	zenbook	3	20000	paid	delivered		Delivered
Rafsan Raiyan	rafsanraiyan00@gmail.com	bashundhara R/A House 17/k road 9 block G	01625840993	mob02	3	58000	paid	delivered		Delivered
Rafsan Raiyan	rafsanraiyan00@gmail.com	bashundhara R/A House 17/k road 9 block G	01625840993	lap02	2	15000	paid	delivered		Delivered
Rafsan Raiyan	rafsanraiyan00@gmail.com	bashundhara R/A House 17/k road 9 block G	01625840993	lap02	2	30000	Cash on delivery	processing		Delivered
Rafsan Raiyan	rafsanraiyan00@gmail.com	bashundhara R/A House 17/k	01625840993	mob01	2	200000	Cash on delivery	processing		Delivered

Chapter 7

Project as Engineering Problem Analysis

7.1 Sustainability of the Project/Work

The ability of a software system to continue serving users' needs over time is referred to as sustainability in software engineering. Users can continue to gain from a software project that is sustainable over time without the need for frequent updates or extensive maintenance. The long- term viability of a software engineering project depends on a number of variables, including:

• Code quality: The project's long-term viability may be improved by the ease with which high-quality code can be updated and expanded.

• Test coverage: It is possible to increase the sustainability of the program by ensuring that it is dependable, and functions as intended with sufficient test coverage.

• Documentation: A project's sustainability may be increased by thorough documentation, which makes it easier to maintain and comprehend.

• Collaboration: The project's sustainability may be increased through collaboration between the project team and stakeholders in ensuring that the project is in line with the needs of its users.

• Continuous integration and delivery: The project's sustainability can be increased by utilizing continuous integration and delivery procedures to make sure that it is updated and improved on a regular basis.

Software engineers can make sure that their tasks are long-lasting and able to satisfy the expectations of their consumers by way of specializing in these components.

7.2 Social and Environmental Effects and Analysis

Social Impacts:

Convenience for Everyday Shoppers: Our e-commerce platform makes it a breeze for regular folks to shop for their daily needs right from their cozy homes, sparing them the hassle of venturing outside.

Empowering Online Sellers: Our platform empowers online sellers, enabling them to connect with a broader audience and manage their businesses more confidently, knowing they have a reliable platform to rely on.

Streamlined Experiences: Customers and business partners alike enjoy simplified and efficient processes, allowing them to lead more balanced, less hectic lives.

Environmental Impacts:

Less Foot Traffic: By offering a platform for online shopping and services, we're reducing the need for people to make frequent trips outside to shop, which in turn, contributes to a reduction in carbon emissions and keeps our neighborhoods quieter.

No More Paper Waste: Our paperless approach eliminates the need for physical receipts and documents, making our operations more eco friendly and reducing paper waste.

Eco-Friendly Shopping: Shifting towards online shopping means fewer cars on the road, which translates to lower carbon emissions. This eco-conscious approach is kinder to our environment.

7.3 Addressing Ethics and Ethical Issues

Because of how far our society and our environments have progressed technologically, every type of online or software development must adhere to some fundamental ethical rules and norms. Online, sensitive information is transmitted so quickly through a variety of sources and channels. Data must not be compromised because of this.

On the website, there is no preference or discrimination on the basis of race, sexual orientation, gender, religious beliefs, body color, language, politics, nationality, property, birth, or any other status. Only necessary user data is gathered by the website, such as a user's name, email address, and phone number. The server and database in the backend are only accessible to the developer.

Chapter 8

Lesson Learned

8.1 Problems Faced During this Period

Lack of experience: Insufficient experience I had limited software engineering experience as an intern, so it was difficult for me to fully understand the ideas and tools required to set up an e-commerce webapp.

Communication barriers: It was difficult for me to communicate my thought process while also understanding that of the more experienced software developers with whom I was working.

Time management: It was difficult for me to efficiently manage my time when I had multiple tasks to complete and a short deadline. To fulfill my responsibilities, I had to develop the ability to effectively prioritize my tasks and manage my time.

8.2 Solution of those Problems

Asking for help and raising questions: To make up for my lack of knowledge or experience, I seek the help of more seasoned colleagues and ask questions when I was unclear about something. This improved my understanding of the concepts and technologies involved in a project as well as my ability to execute jobs more effectively.

Communicate clearly and asking for help: I was proactive in seeking help as required and communicated properly to break down barriers to communication with experienced colleagues. To do this, I had to be able to articulate my justifications, respond to questions with clarity, and exhibit an openness to criticism and direction.

Time management: To address time management issues, I gave my tasks a higher priority, used my time wisely, and maintained organization to solve my time management problems. I applied tools and strategies like creating a list of my jobs' subtasks and scheduling my tasks with a timestamp.

Chapter 9

Future Work & Conclusion

9.1 Future Works

we are constantly updating and adding functionality as needed. The user will find it easier to operate the system and to receive service.
We will go over a few of the platform's potential future developments and improvements in the sections that follow:

• **Improved personalization:** Based on user data and interests, the e-commerce platform might be improved to offer more individualized product recommendations and suggestions.

• **Improved customer service:** To deliver a more individualized and effective level of customer care, the platform might be improved with capabilities like live chat assistance or video consulting.

• **Integration with social media:** Users might share their travels and recommendations with others by integrating the app with social media sites.
• **Enhancing security and privacy:** Any e-commerce platform must address security and privacy issues, and there may be ways to enhance platform security or introduce new privacy controls.

• **Integrating with other systems:** To improve efficiency and simplify commercial operations, the e-commerce platform can be integrated with other structures, such as inventory control or accounting software.

• **Expanding internationally:** Adding support for more languages and currencies, for instance, might help the e-commerce platform increase its user base to a larger worldwide audience.

• **Improving the existing system:** By addressing issues, enhancing functionality, or adding new features that enhance the platform's usability, it may be possible to upgrade the current system.

9.2 Conclusion

This paper presents an analysis of the "E-Lectronix" project, encompassing the comprehensive set of project requirements and designs. The project was completed in around three months. The internship opportunity with Appnap Technologies Limited proved to be an exceptional experience. I have acquired the ability to effectively manage tasks under constrained timeframes and in high-stress situations. Conversely, the invaluable contributions of my superiors significantly facilitated the execution of my responsibilities through their provision of guidance and recommendations. The internship experience has provided me with the opportunity to gain a deeper understanding of the development environment and market dynamics. The utilization of Appnap has resulted in the enhancement of my teamwork potential, professional competencies, communication skills, and technical proficiency. Without a doubt, I am committed to acquiring knowledge and pursuing a professional path within this particular discipline. The duration of my involvement with the organization provided a valuable opportunity to acquire significant experiential knowledge. I would want to express my gratitude to those individuals who have contributed to enhancing my experience as an intern, fostering my self-assurance, and facilitating my transition into the realm of professional endeavors.

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An Undergraduate Internship/Project on

E-Commerce Website

By

Rafsan Raiyan

Student ID: **1930100**

Summer, 2023

Consent from Supervisor

The student modified the internship final report as per the recommendations made by his/her academic supervisor and/or panel members during and/or before final viva, and the department can use this version for archiving as well as the OBE course material for CSE499.

This internship report is checked with Turnitin and plagiarism checker, and the score is:

Turnitin Score (%): 12%

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