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An Undergraduate Internship/Project on ACI Foods E-commerce Website

By

Nabila Islam

Student ID: **1721662**

Autumn, 2022

Supervisor:

Ms Sabrina Alam

Faculty

Department of Computer Science & Engineering

Independent University, Bangladesh

January 28, 2023

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

Department of Computer Science & Engineering

Independent University, Bangladesh

Attestation

Attestation

I attest that the project ACI Foods E-commerce Website that I worked on with the senior developer of ACI Limited. during my internship is included in this report. It was finished under the direction of my supervisor, Ms. Sabrina Alam. I also confirm that my work is based on what I have really learnt and put into practice during my internship, as well as the specifications set out by my organization. I additionally admit that no part of this project or any component of it has been submitted to any other organization for consideration.

Nabila Islam — 23.01.2023

Signature — Date

Nabila Islam

Name

Acknowledgement

I thank Allah, the Almighty first and above all else for giving me this chance and giving me the ability to finish my internship report on time. Additionally, I would like to thank my supervisor, Ms. Sabrina Alam, of the Department of Computer Science and Engineering at Independent University, Bangladesh (IUB), for her invaluable advice, compassion, time, and thoughtful comments on various aspects of my internship and the writing of this report. I've selected this time to express my gratitude for her assistance. Moreover, I would like to thank Mr. Rifat Ahmed, my company supervisor at ACI Limited, for giving me the chance to begin my career as a software engineer by providing me with the opportunity to complete an internship on a project that met industry standards. I want to thank my family lastly, but this is still very significant. They have provided constant, unwavering support. Even on the toughest days, I was motivated to persevere by their trust in me.

Letter of Transmittal

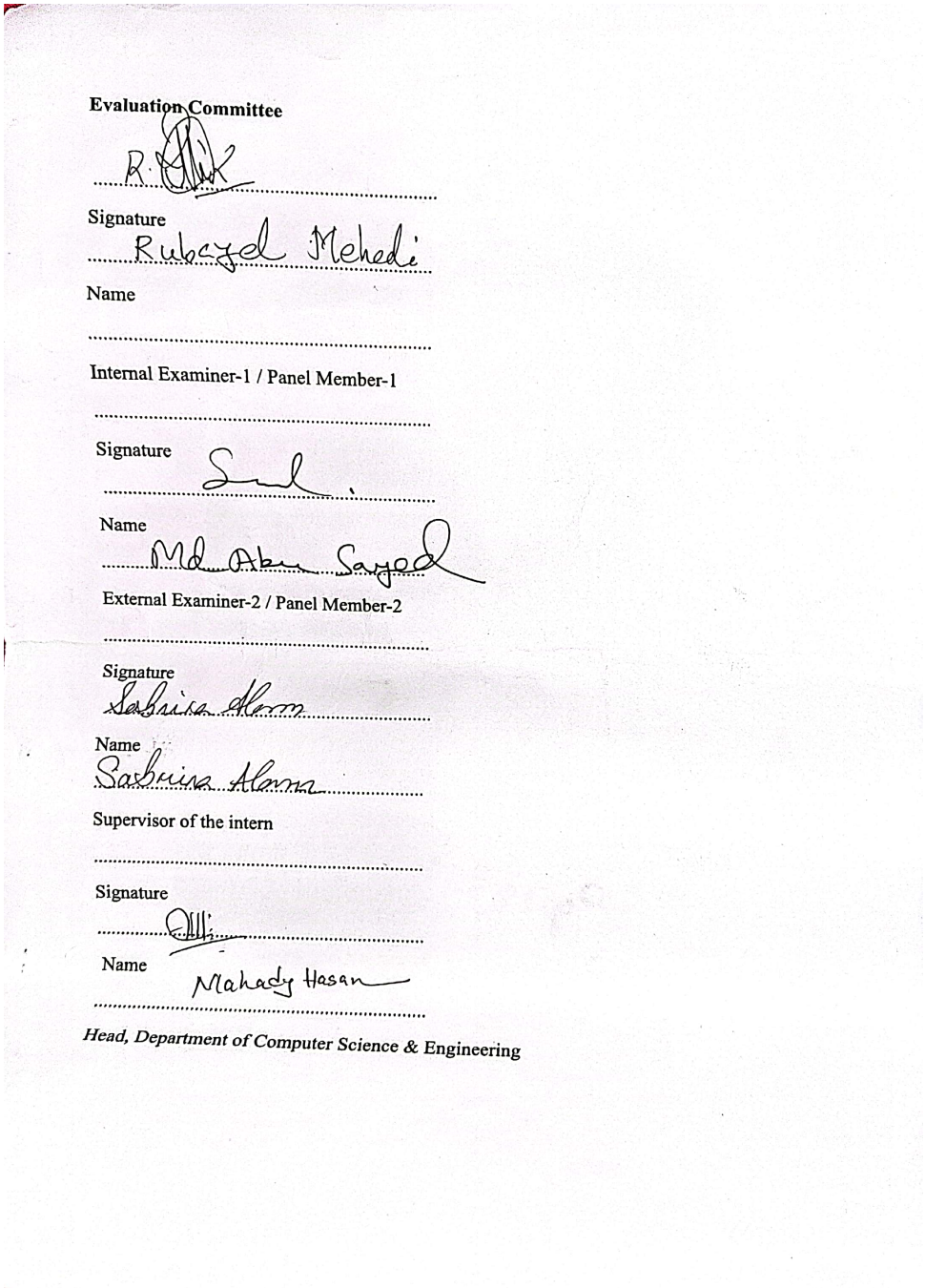
January 25, 2023
Ms. Sabrina Alam
Lecturer
Department of Computer Science and Engineering
Independent University, Bangladesh.

Subject: Submission of Internship Report Spring.

Dear Madam,
This is to inform you with due honor and respect that I am Nabila Islam from the Internship Course of Autumn 2022, I would like to submit my internship report on the ACI Foods E-commerce Website. I would like to thank you for helping me out and guiding me through every stage of my internship assignment. I want to convey my appreciation to you. The internship project would not have been accomplished without your cooperation and support. Through my internship, I gained new knowledge and developed a different perspective on the corporate environment.
I hope this report satisfies all the criteria and standards and meets your expectations. If I made any mistakes in this report, I would want to take this opportunity to apologize and ask for your forgiveness.

Sincerely,
Nabila Islam
ID: 1721662
Department of Computer Science & Engineering
Independent University, Bangladesh

Evaluation Committee



Evaluation Committee

Signature

Rubayed Mehedi

Name

Internal Examiner-1 / Panel Member-1

Signature

Md Abu Sayed

Name

External Examiner-2 / Panel Member-2

Signature

Sabrina Alam

Name

Supervisor of the intern

Signature

Mahady Hasan

Name

Head, Department of Computer Science & Engineering

Abstract

Working as a Web Developer Intern in the MIS department at ACI Limited was where I worked. My assignment to create an "ACI Foods E-commerce Website" for the Web was given to me during my internship. With the use of this system, customers may purchase food online. Access, item viewing, cart insertion, and check-out order list are all possible via the admin panel. I went into great detail in my report on the objectives of the project, its scope, and the specifics of the project management plan. In addition, the report includes sections on project management, finance, methodology, results, and analyses, as well as future work.

Keywords— Web Development, Internship, E-commerce

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Chapter 1

Introduction

1.1 Overview/Background of the Work

One of the biggest conglomerates in Bangladesh, Advanced Chemical Industries (ACI) Limited operates all throughout the nation through its four strategically diversified business groups. Consumers' demands for pure food, particularly in the commodity food industry, have compelled ACI to produce food items to meet customer demand. Under the PURE and FUN brand names, ACI Foods Limited manufactures, markets, and distributes culinary items and condiments. Practically all product categories in ACI Foods range are covered, including cereals, edible oil, snacks, and confections. This company is thinking of creating a website where people can buy foods and grocery items from home. ACI will need to provide a system to manage orders, deliveries, and payments via a web application for purchasing.

I was assigned to this task for the company. My aspects and responsibilities as an intern web developer with a background in computer science are to create a web application for ACI Foods.

To assist us in constructing the ideal web application possible, I will use Laravel application development services. It is easier to use Laravel, a basic PHP framework for web applications, to construct web applications since it gives a systematic and effective strategy that conforms to the MVC architecture. The Blade templating engine has adjustable tags and methods that provide a better division of the application code from the logic and viewing of the display.

1.2 Objectives

The project's primary goal is to manage the information of the food item, category, customer, order, and confirmed order, a food ordering system is used online. It oversees the management of all Food Item, Payment, Confirm Order, and Food Item information.

- There will be both Customer and Admin Panel.
- Users may search specific product details and search for various types of food that are available.

- Users have the option to both add and remove products from their shopping carts.
- This is also capable of keeping record of invoice details and transactions.
- The admin panel's capability to control category items, including editing, adding, and updating records, has enhanced, which produces efficient resource management of product data.

1.3 Scopes

A project's scope must be defined in order for it to be completed. Since there is no system like this one, this is the project's suggestion. After this web's development, the following features will be offered to users:

- Products are shown and categorized on a user's homepage after logging in.
- Products will be seen in detail, including sizes and colors, in a detailed and organized way.
- Users must log in to get authenticated if they are not already.
- The admin can register and log in as a registered administrator via the admin panel.
- Products can be added to and removed from shopping carts.
- The customer's order information and delivery schedule are present as a receipt.

Chapter 2

Literature Review

2.1 Relationship with Undergraduate Studies

I learned a lot of concepts about programming and developing an application from scratch throughout my undergraduate education. The majority of the courses include lab and theoretical study. In lab sessions, I learnt how to work in a group, which will help me in real-world situations where I must work with my teammates to finish and execute a project. It's quite similar to group project work in lab class and group project work with coworkers in the business. The following are a few academic courses that helped my work experience:
CSE 203 Data Structure and CSE 211 Algorithms: Since they are interconnected and one depends on the other, I wish to keep these courses together. I acquired the fundamentals of arrays, linked lists, pointers, stacks, queues, BST, and Graph theory via these lectures. The user will have a wonderful experience thanks to programs that run more quickly and smoothly thanks to the understanding of time and space complexity. My understanding of data structures and algorithms was put to use throughout these classes as I started to answer some competitive programming challenges from practice problems and other websites. This knowledge is now substantially assisting me in solving logical and functional difficulties in the corporate sector.
CSE 213 Object-Oriented Programming: I've learnt how to organize my code using classes and objects owing to this course. All of my work involves classes, objects, and functions in practical applications. I wouldn't be able to grasp how my code is operating and it would be hard to address errors if I didn't understand the foundational ideas of object-oriented programming.
CSE303 Database Management: I learned project planning and design techniques in this training. The System Development Life Cycle, Rich Pictures, Requirement Analysis, Entity Relationship Diagram, Business Process Model and Notation Diagram, and many more well-known planning and strategy techniques were discussed.
CSE 309 Web Applications and Internet: This course offers a comprehensive understanding of web applications and how they are used. The OSI and TCP/IP architecture, Internet routing, IP addressing, and the Domain Name System were all discussed as important subjects. My effort was aided by discussions on common browsers, HTML and Cascading Style Sheets, HTTP, HTTPS, FTP, Client and Server-side scripting, Scripting (JavaScript, AJAX, XML)

using jQuery libraries, and Web Servers (IIS, Apache). I get knowledge about creating dynamic websites using Django and MySQL and SQL server.

System Analysis and Design CSE307: This course has taught me planning, analysis, design, deployment, and maintenance are just a few of the processes that make up the systematic process of developing a system. We'll concentrate mostly on System Analysis and System Design in this session. The methods and tools employed in the design and analysis of information systems are covered in this course. Issues are discussed, including as Project management, data flow diagrams, decision tables, and decision trees are tools for identifying system requirements. Systems analysis uses models of the systems development life cycle. Unified Modeling Language, use-case modeling, and object-oriented analysis. System prototype, feasibility analysis, structured analysis, application architecture, and user interface design and implementation design. Database design, software management, front-end and back-end design, as well as hardware selection. study of information systems case cases.

2.2 Related works

There are several e-commerce websites in Bangladesh. It includes Daraz.com. One of the most well-known in the industry, DARAZ.COM is nowadays one of the most renowned and important online shopping destinations in Bangladesh and other countries. Their website clearly signifies as it really is.

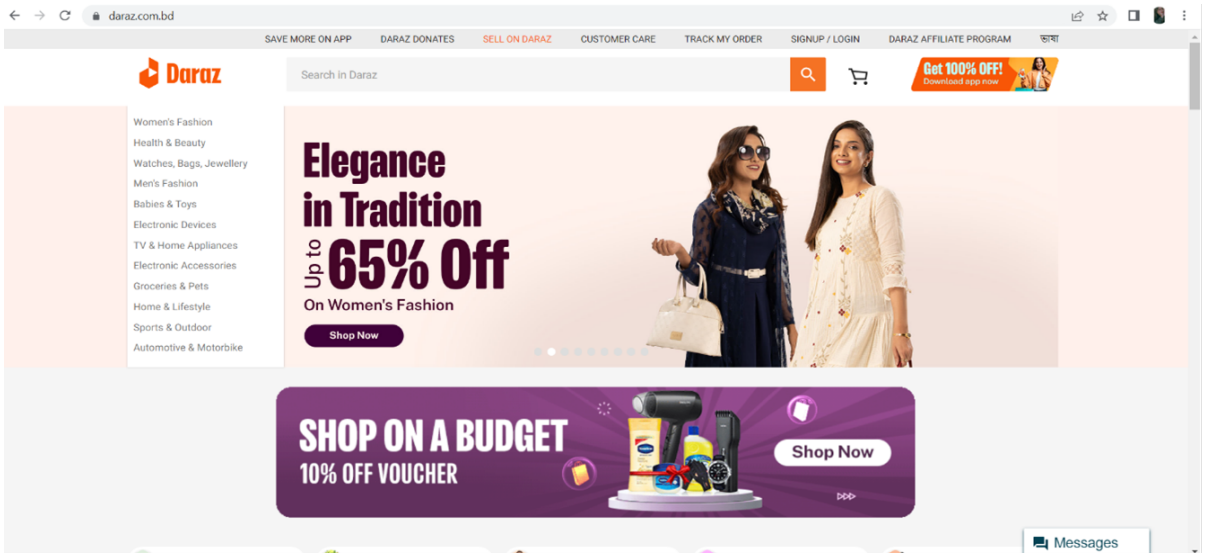


Figure 2.1: Daraz.com

Chapter 3

Project Management & Financing

3.1 Work Breakdown Structure

WBS is a hierarchical structure that represents the division of a project into smaller components [1]. WBS provides a visual representation of all scopes, risks, points of connection, obligations, budgets, and assures that critical deliverables are not overlooked. It is an excellent tool for team brainstorming and cooperation. We employed a top-down strategy in our work breakdown structure (WBS) in Fig. 3.1.

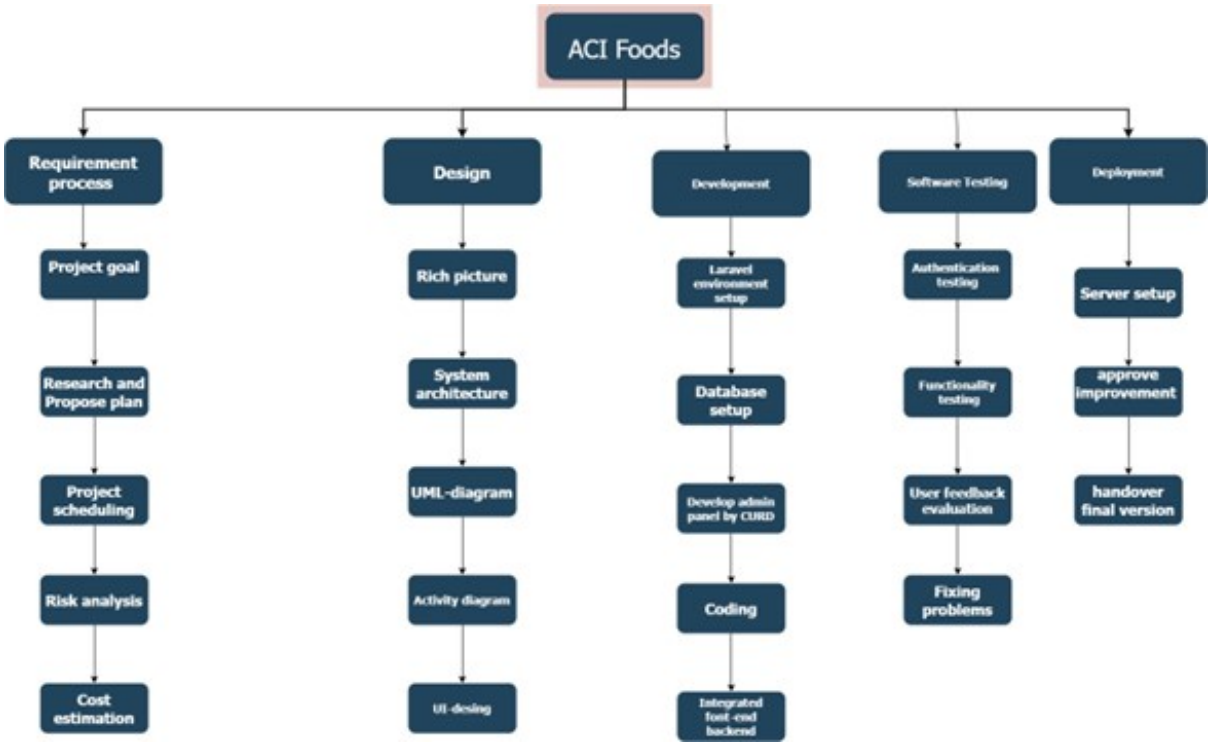


Figure 3.1: Work Breakdown Structure

3.2 Process/Activity wise Time Distribution

Table 3.1: Process/Activity wise Time Distribution

Task	Days	Work Percentage
Requirement Analysis	6	7
Design Layout	9	18
Development	31	50
Software Testing	6	11
Deployment	8	14
Total	60	100

Depending on the tasks to be actually achieved, it is crucial to precisely estimate the total time needed to finish the project. To finish a project successfully, it's also critical to establish priorities and goals. Because it requires the longest time to finish, the development phase is by far the most crucial. We complete the tasks in the frame that are listed, so if one task is delayed, the rest will be as well. It is crucial to do work on time due to of this statistic. Six working days are needed for requirement analysis, nine days are needed for design layout, thirty-one for development, six days for Testing and rest of them for deployment.

3.3 Gantt Chart

A Gantt chart, which is typically used in project management [2], represents one of the most common and practical methods of visualizing activities or occurrences in relation to time. The activities are listed on the left side of the chart, and a time scale is provided at the top. Each action is represented by a bar, the length and location of which reflect the start, duration, and finish dates of the activity. A Gantt chart lets us see the timeline of a project and provides a clearer view of what's going on. A Gantt chart based on the project tasks and their time distribution is shown below.

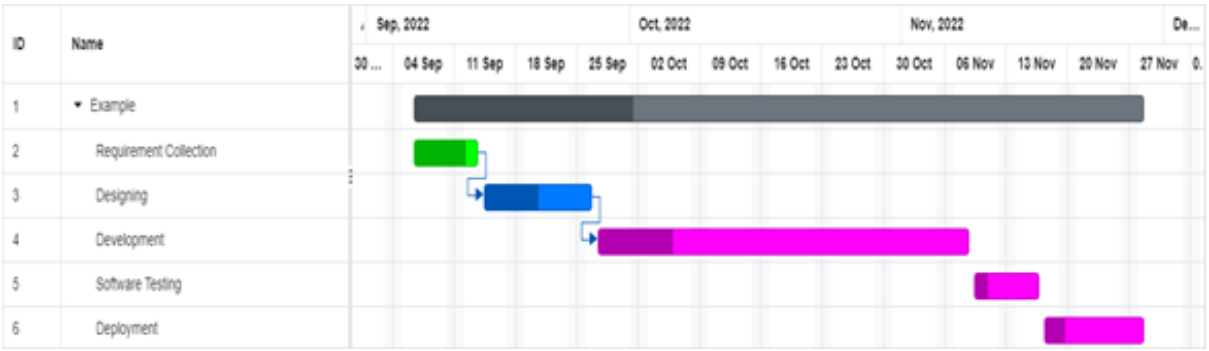


Figure 3.2: Gantt Chart

3.4 Process/Activity wise Resource Allocation

Resource allocation refers to the practice of assigning and arranging available resources in the most efficient and effective way feasible. Projects will always need resources, which might be sparse at times. As a result, the project manager is in charge of the right scheduling and distribution of these resources throughout the project timeline. As a result, resource allocation is concerned with project management and resource delegation in order to guarantee that the project operates as smoothly and efficiently as feasible. The table below displays how resources are distributed:

Table 3.2: Process/Activity wise Resource Allocation

Task	Resource Allocation
Requirement Collection	15%
Designing	15%
Development	35%
Software Testing	20%
Deployment	15%
Total	100%

3.5 Estimated Costing

One of the most essential aspects of project planning and management is cost assessment. It is determined by the quantity of resources, budget, and time necessary for the project's scope. My company has decided to predict this amount of cost. The estimated costing table is shown below:

Table 3.3: Estimated Cost

Work Distribution	Costing
Design	55,000
Programming	1,25,000
Integration	40,000
Domain and Hosting (Annual)	50,000
Total	2,70,000

Chapter 4

Methodology

A methodology is a set of methods, practices, processes, techniques, procedures, and standards for addressing problems. They are clearly laid out procedures that outline what should be done next, why each step in the software development process is significant, and how to accomplish a project stage.

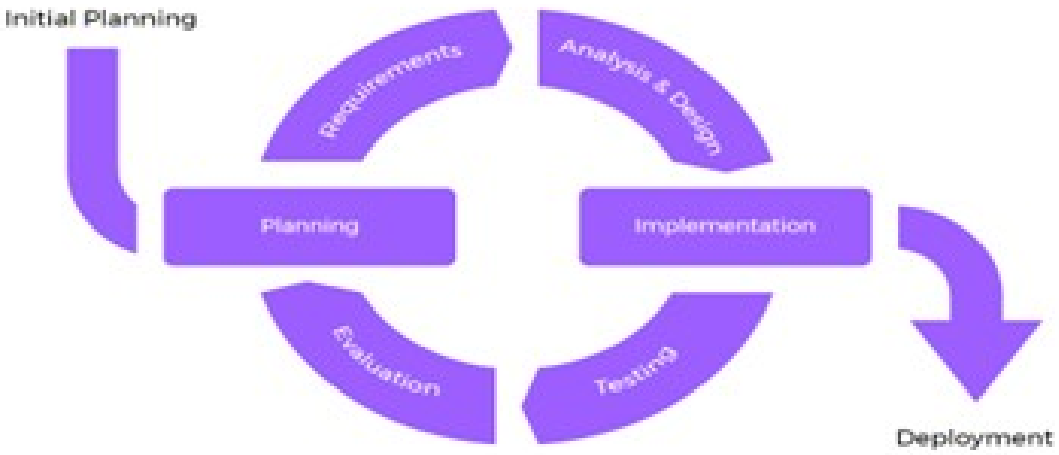


Figure 4.1: Iterative & Incremental Development

After a consultation, my project supervisor and the developers of ACI Limited decided to follow the incremental and iterative development process. Combining incremental development with iterative design is known as iterative and incremental development [3]. The software development process is divided into manageable, little pieces called increments by the incremental technique. Iterative software development is the practice of continuing software development processes in phases known as iterations. Each increment builds on the preceding version, al-

lowing for steady development. A new version of the software is produced after each iteration until the ideal outcome is achieved. Planning is the first step in the iterative and incremental development of software, which continues through cycles that involve iterative feature additions and incremental user feedback. At the conclusion of each cycle, the product is prepared for deployment.

From the above discussion of how to use each step of the methodology, we can see that these approaches help the project respond quickly to changes, can quickly and easily adapt to any given change, can achieve transparency and total alignment in the development and testing phases, delivers overall higher quality products, and creates customer satisfaction.

Chapter 5

Body of the Project

5.1 Work Description

ACI Foods is an online food ordering system and e-commerce web application. I was required to develop from scratch a website for ACI to manage online food orders. The admin will use this system to manage food orders and other management tasks, while authorized customer users will utilize this system to place food orders and make payments. A custom admin panel made using Laravel and a MySQL database will be able to dynamically browse and manage all products offered by "ACI Foods." A private URL will route the user to the admin home page from the login page for administrators. After successfully logging in as the admin, the admins may add various items and make important changes like updating, deleting, activating, or inactivating any products through their particular home page. The customer users' home page will display any modifications made by the admin. The system will be operated using Laravel as the backend and frontend by blade.php extension.

5.2 Requirement Analysis

Rich Picture

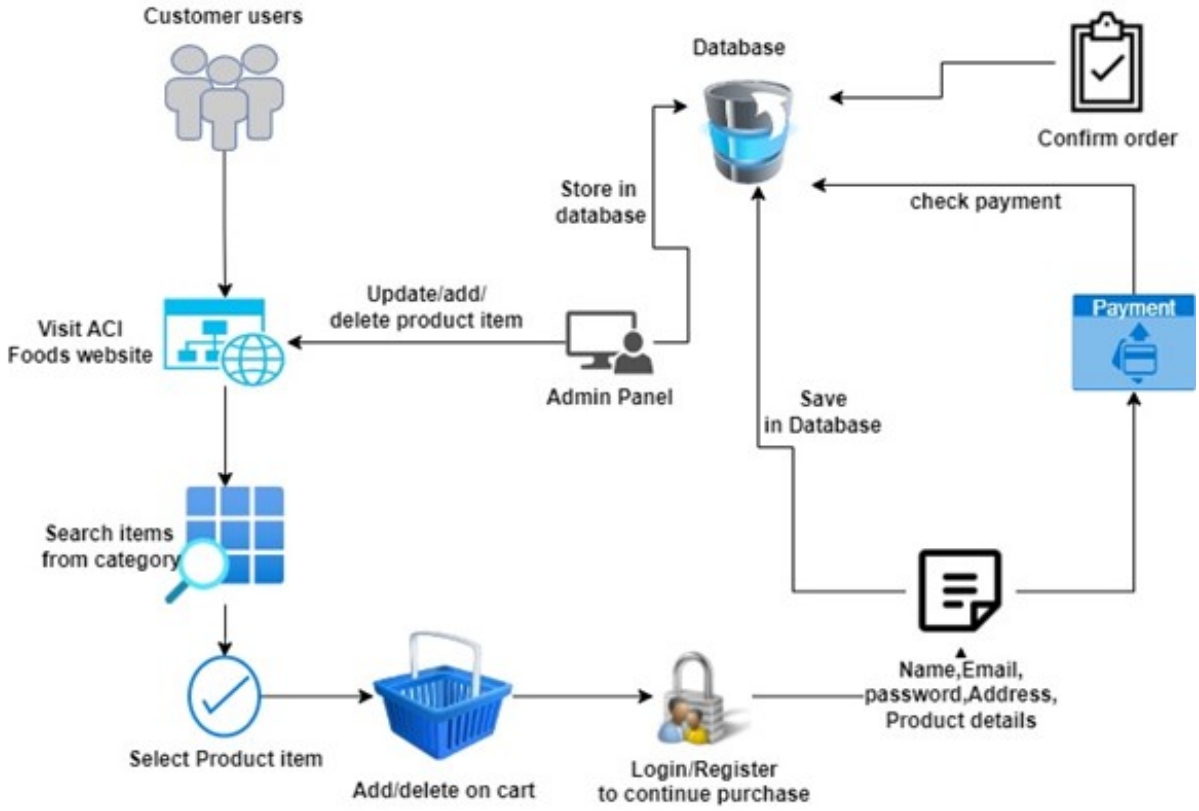


Figure 5.1: Rich Picture

Functional and Non-Functional Requirements

To assist users to complete their responsibilities, functional requirements are product features that developers must implement. A non-functional requirement is one that describes criteria rather than particular behaviors that may be used to evaluate how a system performs. Functional requirements, which specify particular behavior or functions, are contrasted with them. Below are listed the system's functional and non-functional requirements.
Functional Requirement:

- The system will check to see if the user's email address and password are accurate when they attempt to log in.
- The database will save the information after a user registers.
- From the item table, users may search for the item they want.
- Users may add the items they want to their shopping cart.
- A cart item's amount can be changed by the user.

- A cart item may be removed by the user.
- User may choose payment method.
- User can view payment receipt.
- On the homepage, products should be placed according to categories.
- If users are not logged in, they must do so before placing an order.
- The admin user can update, modify, add, remove, and confirm orders.

Non-functional Requirement:

- Usability: The application shall be simple to use and intuitive to allow users to access it quickly.
- Reliability: When a system is dependable, it is most desirable; availability of the system is crucial. As a result, the application will be developed with maximum dependability in mind.
- Scalability: A web application for desktops that has a similar visual style to the system's mobile access points will be created.
- Security: The system will be safe, and user data such phone numbers and email addresses will be protected.
- Maintainability: Regular maintenance will be performed on the program to prevent slow-downs and to address any bugs.

5.3 System Analysis

5.3.1 Six Element Analysis

Table 5.1: Six Element

Process	Human (Role)	Non-Computing Hardware	Software	Hardware	Database	Connectivity
Choose Product	Select product from Website	None	ACI	PC or any smart device	MySQL	Internet
Upload Product	Admin upload new Product	None	ACI	PC or any smart device	MySQL	Internet
Review Product	Customer Review the product	None	ACI	PC or any smart device	MySQL	Internet
Deliver Product	Delivery man picks the product	None	ACI	PC or any smart device	MySQL	Internet

5.3.2 Feasibility Analysis

A feasibility analysis [4] evaluates a project's possibilities of success; potential investors and lenders place a high value on the study's credibility and perceived neutrality. It establishes the project's viability from a moral, philosophical, and economical standpoint as well as if it is desirable to invest in. Three feasibility studies are being taken into consideration for this project.

- Operational Feasibility: Going out for anything these days presents a significant risk due to the present state of the economy. Visitors and potential customers may now easily find all the information they need to make an informed purchase with the aid of our website. The product details also satisfy every requirement of the consumer.
- Economic Feasibility: This has an evaluation of the benefits and costs of the website. Users of the website won't encounter any unexpected costs. They want to generate money when a consumer browses the website and decides to buy something.
- Technical Feasibility: This relates to the technological resources available inside our company. It assists in determining whether there are adequate technical resources and whether technical professionals are capable of transforming concepts into workable solutions for the website. The technical feasibility of the proposed system's hardware, software, and other requirements is also assessed.

5.3.3 Problem Solution Analysis

A significant number of problems occurred while finishing the projects, and they were addressed appropriately. Some of the concerns were as follows:

- The use of bcrypt hash password solves the problem of hashing passwords in the database. This was something I needed to learn for the first time.
- When uploading images in bulk to feeds, I discovered that the image of one image appears for another, and many more. We had to upload each photo individually. So, after carefully reviewing all product photos and URLs for errors, the problem was resolved.
- It was a significant effort to make the website responsive to all devices. Bootstrap5 and custom CSS were used to overcome this problem.

5.3.4 Effect and Constraints Analysis

For both the customer and the organization, this project's online ordering system significantly improves the ordering procedure. The system provides a user-friendly, dynamic menu that includes all of the options that are currently available. When placing an order, the customer may select one or more goods, which will be added to the Shopping cart. Before completing their purchase, customers may check all of their order details in the shopping cart. Customer receives information on the order confirmation at the completion. The database stores the order once it is placed, allowing for almost real-time retrieval. This enables admin and managers to immediately evaluate orders as they arrive in and handle every order effectively and efficiently with the least amount of complexity and interruption.

5.4 System Design

UML Diagrams

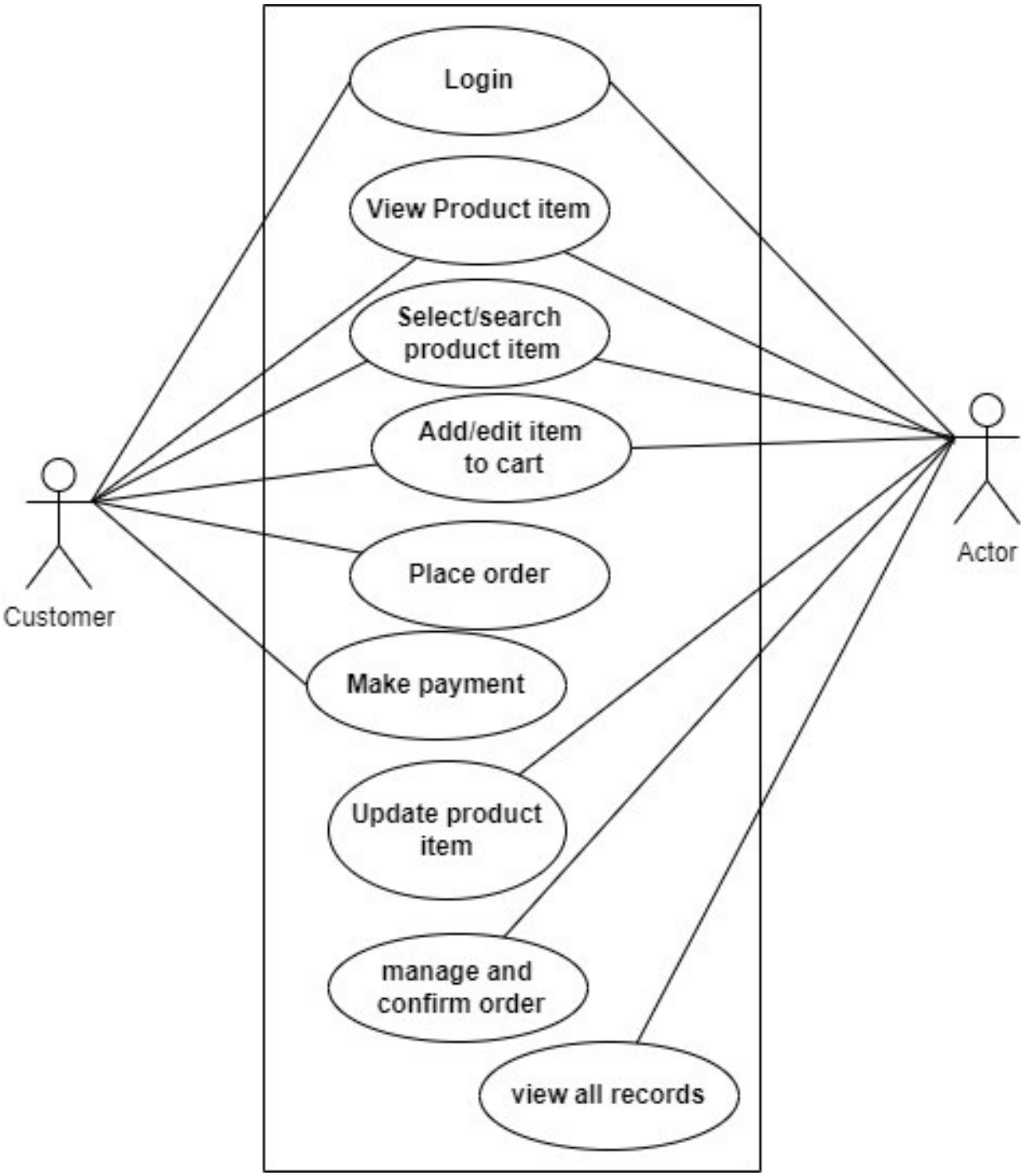


Figure 5.2: Use Case

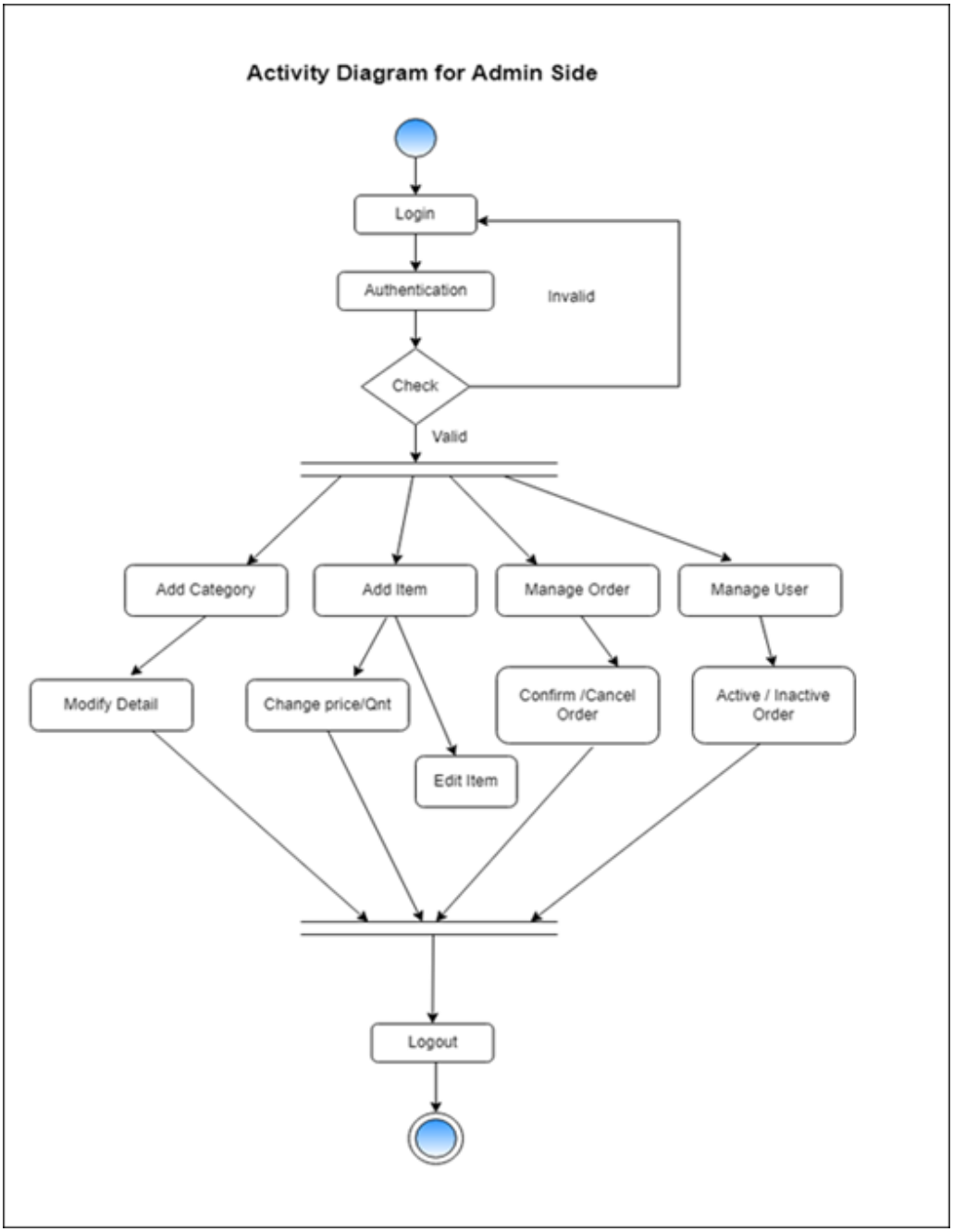


Figure 5.3: Activity Diagram for Admin

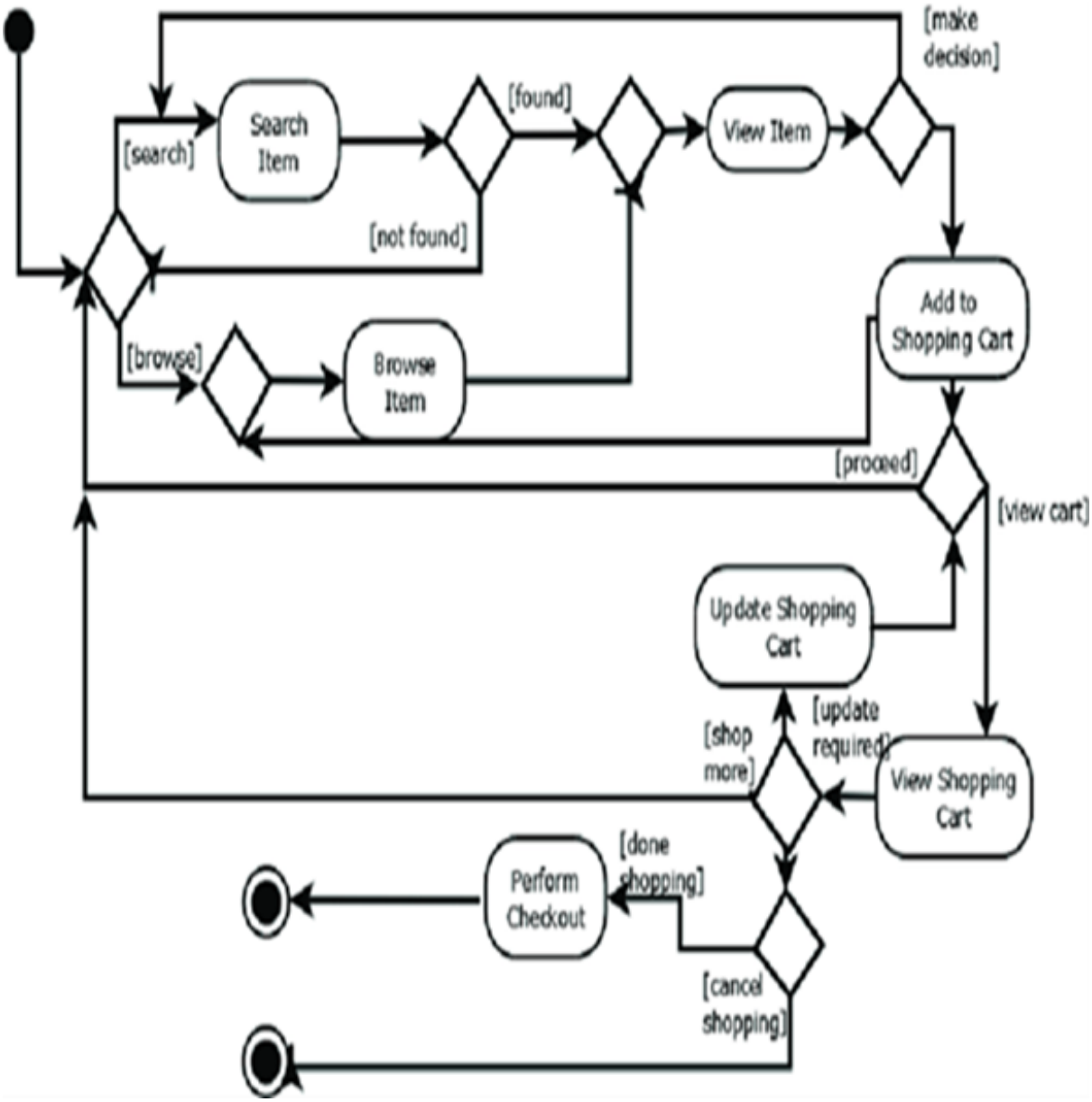


Figure 5.4: Activity Diagram for Order

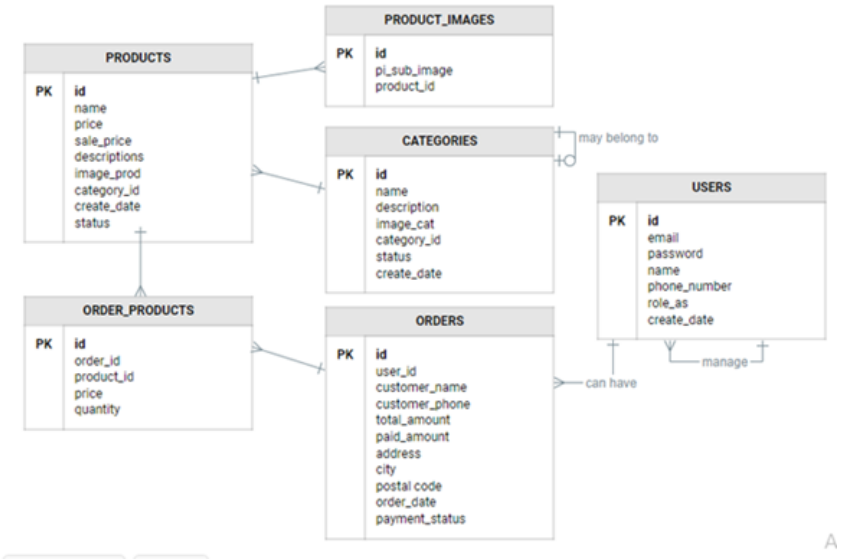


Figure 5.5: Entity Relation Diagram

Architecture

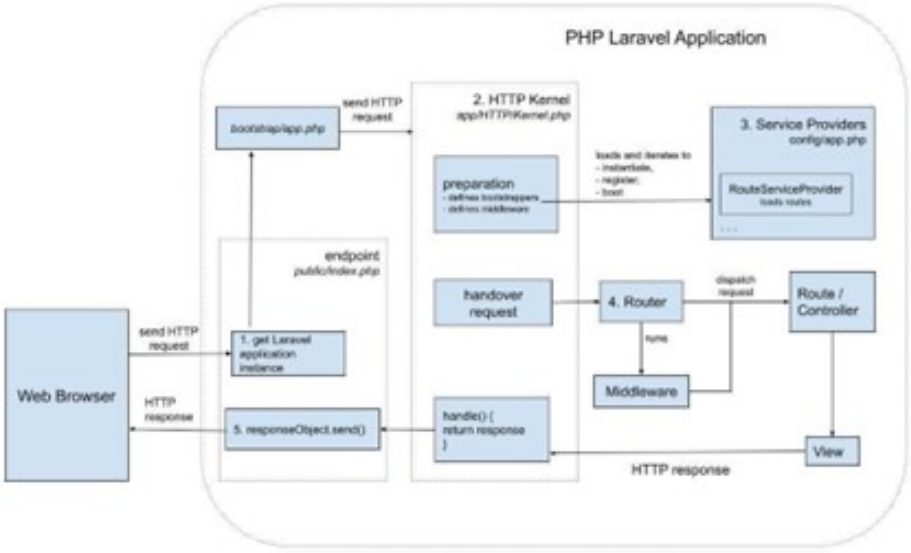


Figure 5.6: Architecture

5.5 Implementation

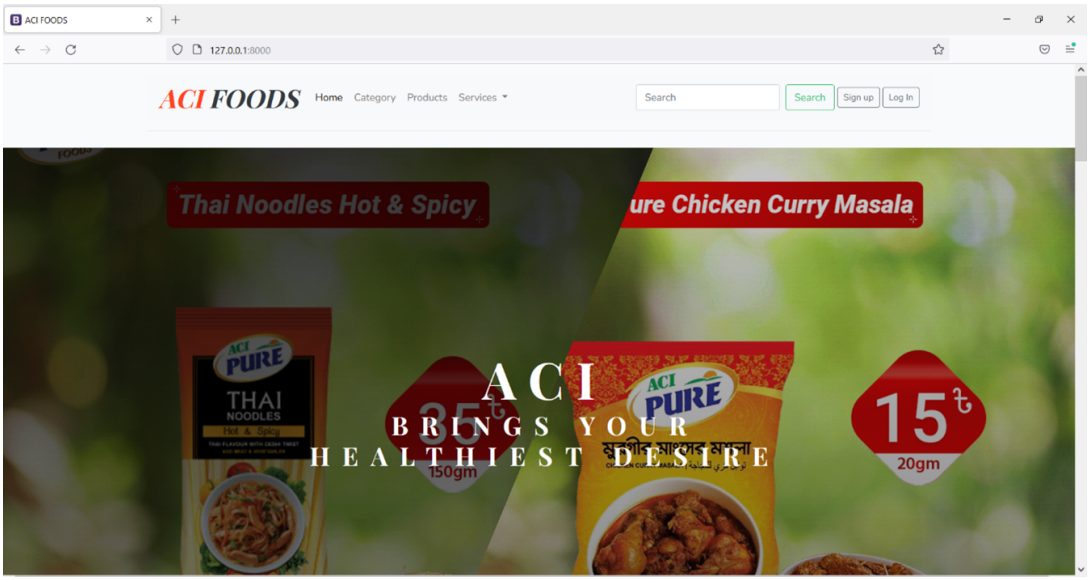


Figure 5.7: Home Page

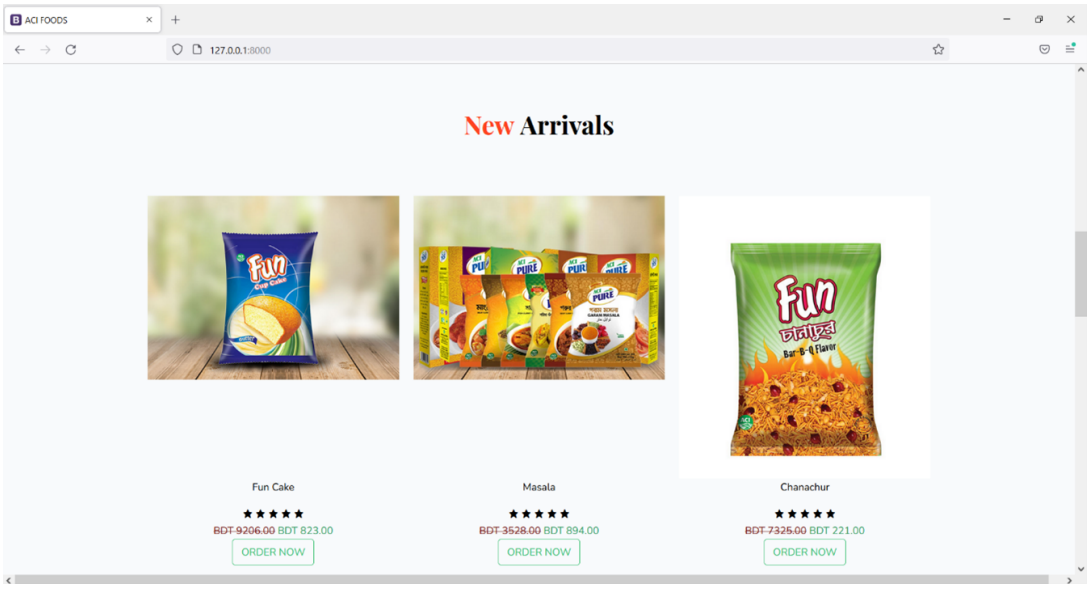


Figure 5.8: New Arrival

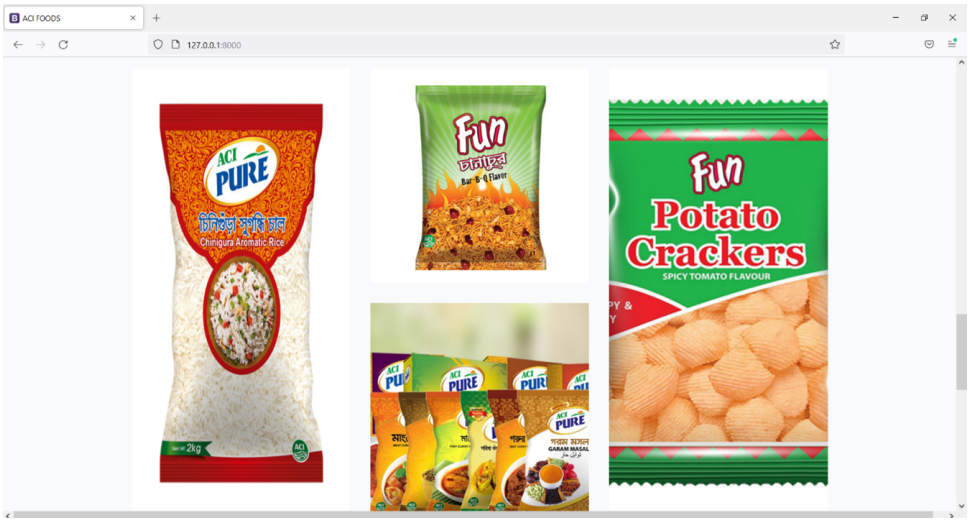


Figure 5.9: Category

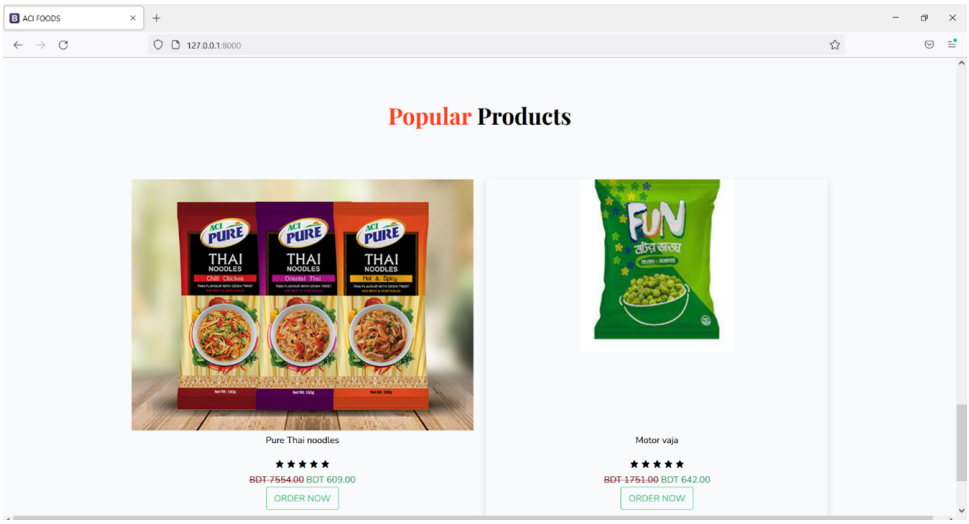


Figure 5.10: Popular Products

5.6 Testing

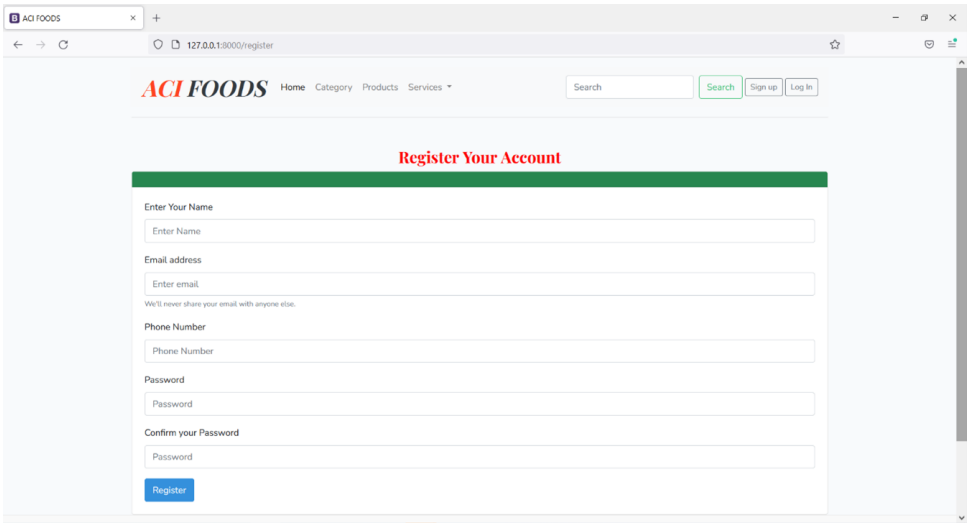


Figure 5.11: Registration Page

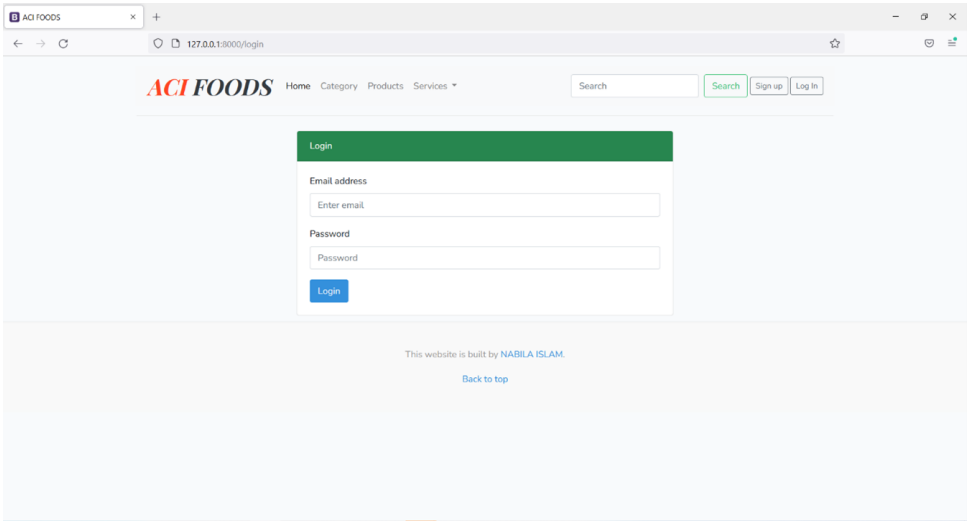


Figure 5.12: Login Page

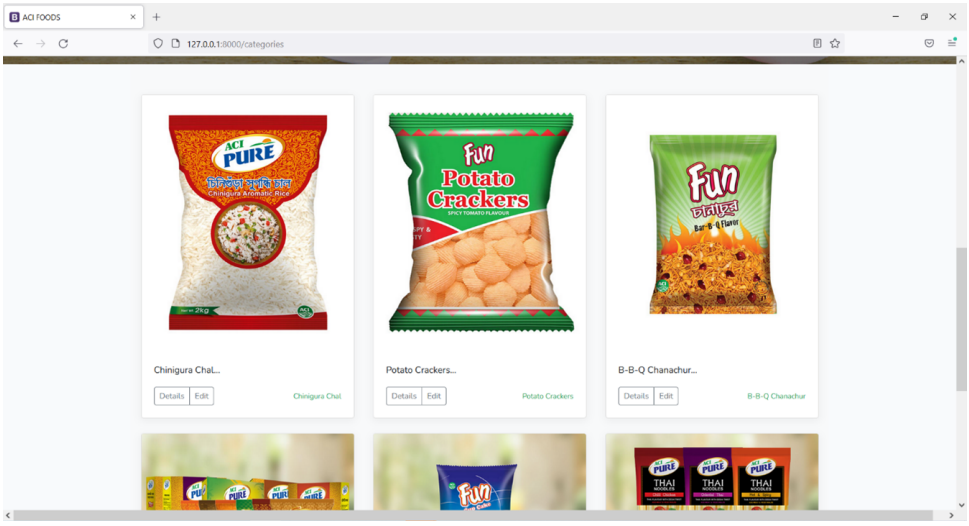


Figure 5.13: Admin Category

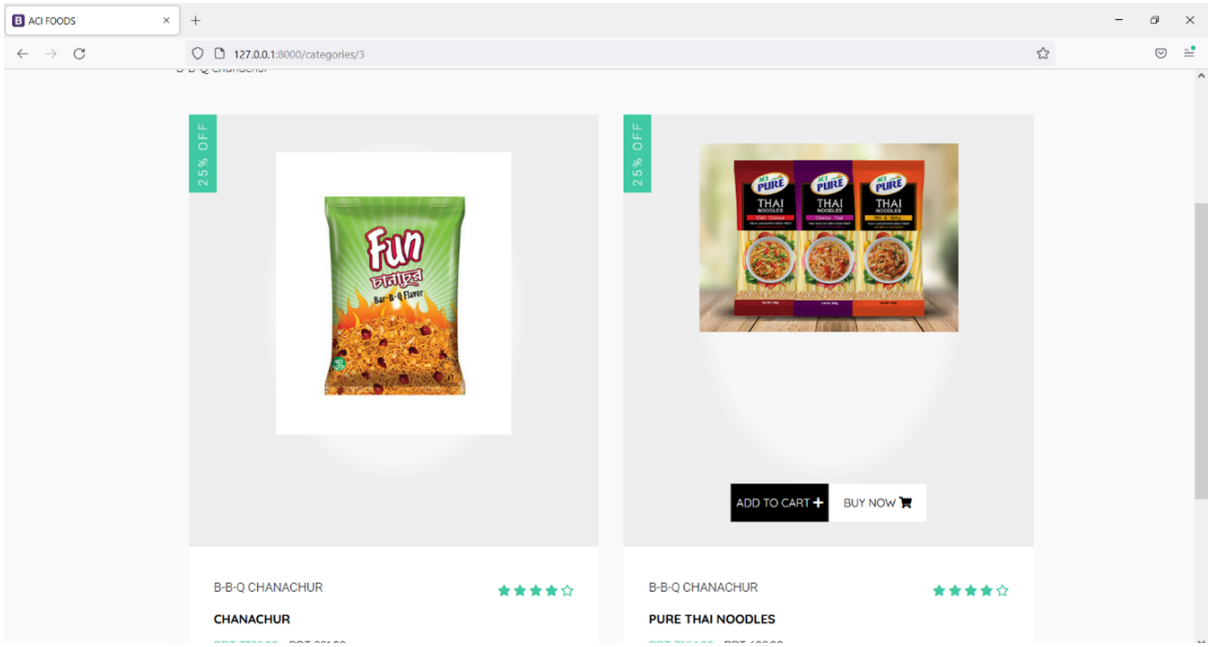


Figure 5.14: Product Page

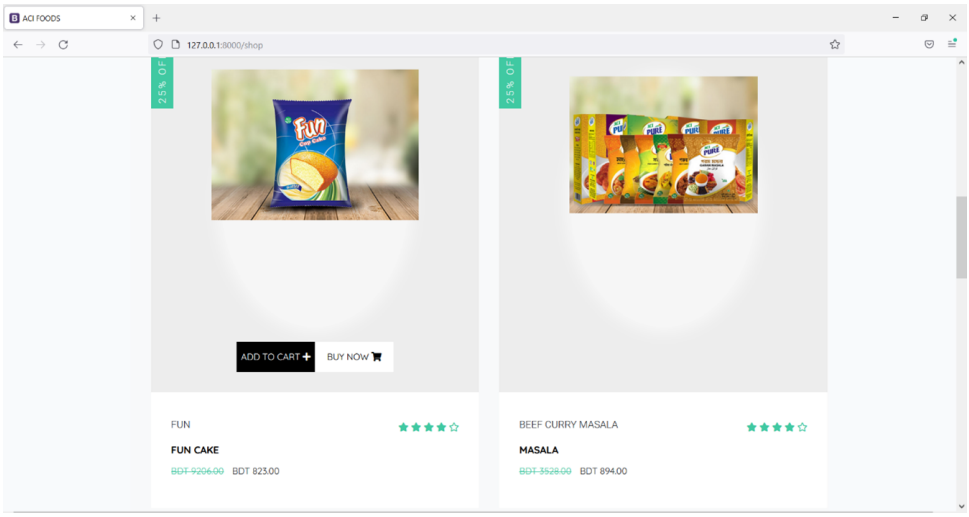


Figure 5.15: Testing

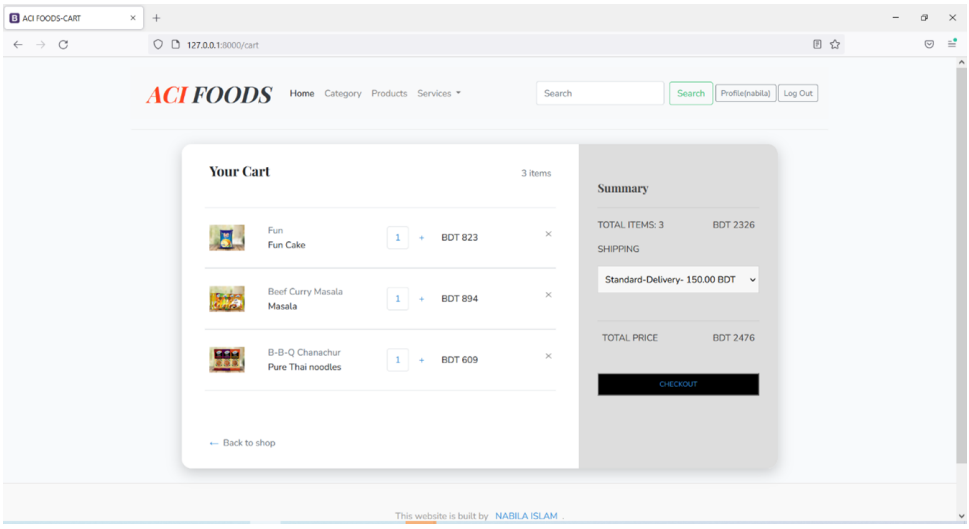


Figure 5.16: Cart Page

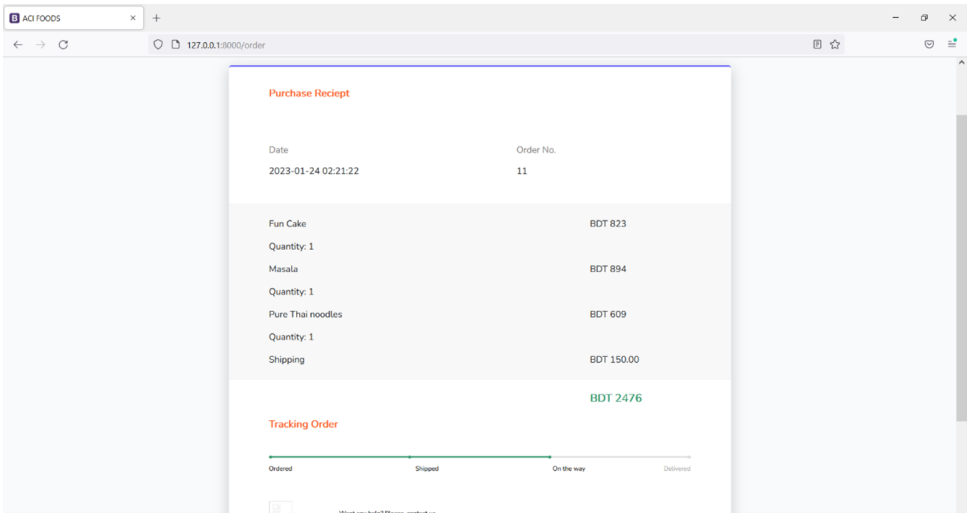


Figure 5.17: Receipt

Chapter 6

Results & Analysis

ACI Food was developed specifically to make the process of purchasing desired meals more convenient for clients. The major objective was for customers to be able to conveniently obtain their desired food item without having to go to the market. This system is very user-friendly, and it can keep a record of consumers, search items, see product details, and purchase their desired food without any problem. Finally, they encounter certain bugs, which we will solve as quickly as possible.

Chapter 7

Project as Engineering Problem Analysis

7.1 Sustainability of the Project/Work

Sustainability refers to a product's capacity to be maintained and enhanced. In today's world, each new program or website must be regularly kept up-to-date and updated for its users. The website has become more sustainable as a result of these minor but significant changes. Image optimization to minimize file size: The maximum number of photographs per section has been maintained constant to save load time. The size and resolution of the image have also been considered so that load time and energy usage are not restricted. We maintained this system as basic as possible so that people may navigate the website with ease. All unneeded data has been erased. All data that we no longer need, such as undesired themes and plugins, outdated post revisions, useless media, categories and tags, trash responses, broken links, and so on, was erased. We will continue this activity every year in order to clean up the database. Simple URLs for admin and consumers. We have designed the routes in such a manner that both users and admins would find it very easy to connect to any page on the website.

7.2 Social and Environmental Effects and Analysis

The main goal of the website has been to provide the ACI Foods Web application easier for consumers to use in order that they wouldn't have to go to a real store to buy food. The website made the challenging task of handling all of the various tasks easier. This system will also contribute in the promotion of ACI foods. This website is very useful when there is an event going on. People can order food from their homes at any time. Even if they desire to order food at midnight, they may do it through this. During the global outbreak, the website has been a lifeline because it is no longer safe to eat outside. People have to be more careful in their daily lives, and the website helps them to keep a social distance while saving essential effort.

7.3 Addressing Ethics and Ethical Issues

When working on establishing up and maintaining a website in the world of smartphones with so much data collection, hacking, and cybercrime, and so on, there are a few implicit rules and morality standards that must be followed. The developers ensured that there were no violative of behavior and that all of the focuses were taken seriously. Some of them are as follows as is customary, the following administrative data is gathered. The website collects basic user information such as a user's name and email address. There is no further data gathered.

Chapter 8

Lesson Learned

8.1 Problems Faced During this Period

I had some difficulties. I couldn't grasp the workplace when I started working there. Acknowledging the very first requirement was challenging for me since, as a new team member, I had to first grasp how to do that and what they had working on. What organizational layout they employed as well as how they developed. They established preferred frameworks, while I had to learn about a few of them before I could begin working. Acquiring emerging technologies and putting them to use was a slow process for me at first because it was my first time. Because the frameworks were unknown to me, it was difficult to discover an issue at first. Some issues, however, require a long time to find and fix.

8.2 Solution of those Problems

I discovered the best coding patterns to utilize, how to construct the model, view, and controllers, and how to write less code to do the same amount of work. To continue working on my internship, I spent the evenings studying Laravel technology. This project would not have been completed if those extra hours hadn't been put in. The senior developers taught me how to properly debug as well as some quick and simple debugging approaches.

Chapter 9

Future Work & Conclusion

9.1 Future Works

Because the project is still in its early stages, the organization intends to add many more features towards the website in order to make it more useful to users and more visually stunning. More backend engineers, in my perspective, the backend need to develop more. This project is still in the works. Some features needs however be improved until it could be developed. If we can also create a mobile application for Android/iOS, it will make everyone's lives simpler and more efficient. Users would benefit from a live chat system. They may communicate with support workers quickly. They don't have to wait long or go to another platform to communicate. And the major focus of future work could be on upgrading the present system.

9.2 Conclusion

It was the best experience I'd ever had. I will always be grateful for the opportunity to work for such a large and reputable organization as ACI Limited early in my career. I encountered and connected a fantastic deal. I was presented to splitting modern breakthroughs and was challenged to achieve much better. I've also learnt a great deal about various development methods. My organization supervisor and other seniors was always there to answer any queries and help me settle in comfortably. And the most important is that I kept learning new things from all my respected faculty members, which is the reason I'm still here. I wouldn't be in this situation if they didn't help me from the beginning. I greatly appreciate all of the faculty's efforts. Thank you to all of my instructors.

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Consent Form

An Undergraduate Internship/Project on "ACI Foods E-commerce Website"

By

Nabila Islam
Student ID: **1721662**

Autumn, 2022

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.

(Signature of the Supervisor)

Sabrina Alam
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