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An Undergraduate Internship/Project on Online Grocery Shop Website

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Independent University, Bangladesh

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An Undergraduate Internship/Project on Online Grocery Shop Website

By

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Autumn, 2022

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January 24, 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

This is to certify that the report is completed by myself Ahmed Jubair Nijum (1730265), submitted in partial fulfillment of the requirement for the Degree of Computer Science and Engineering from Independent University, Bangladesh (IUB). It has been completed under the guidance of Md. Abu Sayed. I also certify that all my work is genuine which I have learned during my internship. All the sources of information used in this project and report has been duly acknowledged in it.

Nijum

02/02/2023

Signature

Date

Ahmed Jubair Nijum

Name

Acknowledgement

I'd want to thank my Almighty Allah for providing me the strength and capacity to work hard, for enabling me to write this report, and for allowing me to conduct my internship. at (IBCS-PRIMAX (Software Bangladesh) Ltd). I'd want to appreciate my distinguished instructors and supervisor Md. Abu Sayed, Lecturer, Department of Computer Science Engineering, Independent University, Bangladesh, for his guidance and thoughtful advice about numerous areas of my internship and to compile this report. I would also like to thank my supervisor Ishtiak Hussain Karim for giving me the chance to work with him and complete my internship at IBCS-PRIMAX Software (Bangladesh)Ltd. The knowledge, experiences, and productivity I have gained at this firm have been extremely beneficial to me, and I am confident that this will continue to be so in the future.

Letter of Transmittal

24 January, 2023

Md. Abu Sayed

Lecturer

Department of Computer Science and Engineering

Independent University, Bangladesh.

Subject: Letter of Transmittal for Internship Report, Autumn 2022.

This is to inform you that with due respect Myself, Ahmed Jubair Nijum (1730265), from Autumn 2022, would like to submit my internship report. This report is based on my internship experience and the project on which I worked. I have been working as an intern since October and I have completed my internship at IBCS-PRIMAX Software (Bangladesh)Ltd. This report is based on my experience and the work I did at my organization during my internship. The major purpose of my internship was to obtain experience in all of the company's technology-related disciplines, such as research and development, documentation, and software development, as well as to become acquainted with software development methods and practices. Throughout the course of my internship at IBCS-PRIMAX Software (Bangladesh)Ltd I discovered that I had learnt and implemented several new skills and technology. I would want to express my heartfelt gratitude for all of your advice and assistance. I hope and pray that this report meets all of the requirements and meets your standards.

Sincerely,

Ahmed Jubair Nijum

1730265

Evaluation Committee



Signature

Rubayed Mehedi

Name

Internal Examiner-1 / Panel Member-1

Signature



Name

SABRINA KHAN

External Examiner-2 / Panel Member-2

Signature



Name

Md. Abu Sayed

Supervisor of the Intern

Signature



Name

Head, Department of Computer Science & Engineering

Abstract

This report details the experience and information I obtained throughout my internship at IBCS-PRIMAX Software (Bangladesh)Ltd. IBCS-PRIMAX Software (Bangladesh)Ltd is Bangladesh's leading retail software and solution supplier. It was established in 1989. Their development team is made up of skilled and certified System Analysts, Application Developers, Database Administrators, Programmers, Support Engineers, Quality Assurance engineers, testers, and other professionals. As an intern, I assisted the development team on a project. Because I had no formal experience in the web development sector, most of the materials were foreign to me during the initial period of the internship. They gave me the opportunity to grow as a person and introduced me to the web development process, which I will utilize in the future. During my internship, I was introduced to the technologies utilized in the Development phase. After finishing all of the fundamental learning sessions, I was given to work on a project in which my objective was to work on an online grocery store website with daily duties.

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Chapter 1

Introduction

1.1 Overview

I was assigned to work with my supervisor, Mr. Ishtyak Hussain, on a grocery selling shop-based website where customers could buy things, add products to (add to cart), and continue shopping. A consumer may add numerous things to the basket and order them from there. To place an order, the user must provide their address in the address field, after which the order will be confirmed. They may also add the product to their Wishlist for future purchasing. If the supplier offers a discount on a product that the consumer wishes to purchase, he or she can view the product in their Wishlist. Supplier is the website's owner, and he serves as its administrator. He has full access to the website, including items, employees, and consumers.

This is the website of a grocery store where customers may buy things online and browse the most recent pricing for computer accessories such as groceries. Admin can also download order as PDF.

1.2 Objectives

- The primary purpose of the project is to guarantee that the website is simple to use for both sellers and buyers via a user-friendly interface.
- Using theoretical knowledge to improve the project or website.
- Observe how engineers and management interact with clients and provide the best service possible.
- Collaborating with members of the programming team to solve difficulties with day-to-day activities.

1.3 Scopes

Features available to the user after the development of this web application:

1. Home page- In this page the user will see after seeing the website.
2. Category- Customer can see all the products from category section.
3. Admin Registration- One has to register to become an admin.
4. Admin Login- Admin can login as an admin and view the admin panel.
5. User Registration- Customer can register from registration page.
6. User Login- User can login from the login page.
7. Adding/Removing Product- Admin can add or remove any product
8. Add to Cart- Customer can add products into the cart.
9. Wishlist- Customer can add products into the Wishlist.

Chapter 2

Literature Review

2.1 Relationship with Undergraduate Studies

The large majority of the skills I'll need to construct the website were given to me throughout my undergraduate education. Some courses that will be really useful for this project are Web Application and Internet, System Analysis and Design, Data structure, Database Management, Object oriented programming.

Data Structure: It is a basic level course that will assist me in coding and creating the project structure by organizing and storing data.

Database Management: From this course drawing diagrams such as Rich Pictures, Business Process Model Diagram, Flowcharts, and Entity Relationship Diagram will help in planning phase of the project.

Object-oriented programming: The majority of data in the emerging industry is represented as an object. It also taught how to construct modular programs, which reduced code repetition and made it more reusable.

System Analysis and Design: It will assist in the analysis of the system and the design of the website in accordance with the clients' demands by following to the system's sketches and diagrams.

Web Application and Internet: This is the course that help me to create a website from scratch by using HTML, CSS, bootstrap, JavaScript for front end which I will be using to create the project

2.2 Related works

Chaldal : Chaldal is Bangladesh's largest groceries e-commerce site. The company's services are available through a website and a mobile app for Android and iOS. Chaldal began as an online grocery business and has now gone on to redefine supply chains, facilitate commodity exchange, assist refugee camps, and minimize food waste by incorporating technology all the way down to the farmers.

Pandamart : It is a part of Foodpanda. It is a one-stop shop aimed to provide the quickest grocery delivery possible. Pandamart is Bangladesh's quickest delivery shop. The customer picks the goods and then orders them by adding them to their shopping basket.

Chapter 3

Project Management & Financing

3.1 Work Breakdown Structure

WBS is a hierarchical structure that depicts the division of a project into smaller components. We created a work breakdown structure (WBS) for our project to ensure that our efforts are coordinated. WBS provides a visual representation of all scopes, hazards, points of communication, responsibilities, expenses, and ensures that critical deliverables are not overlooked. It is the ultimate team tool for brainstorming and cooperation.

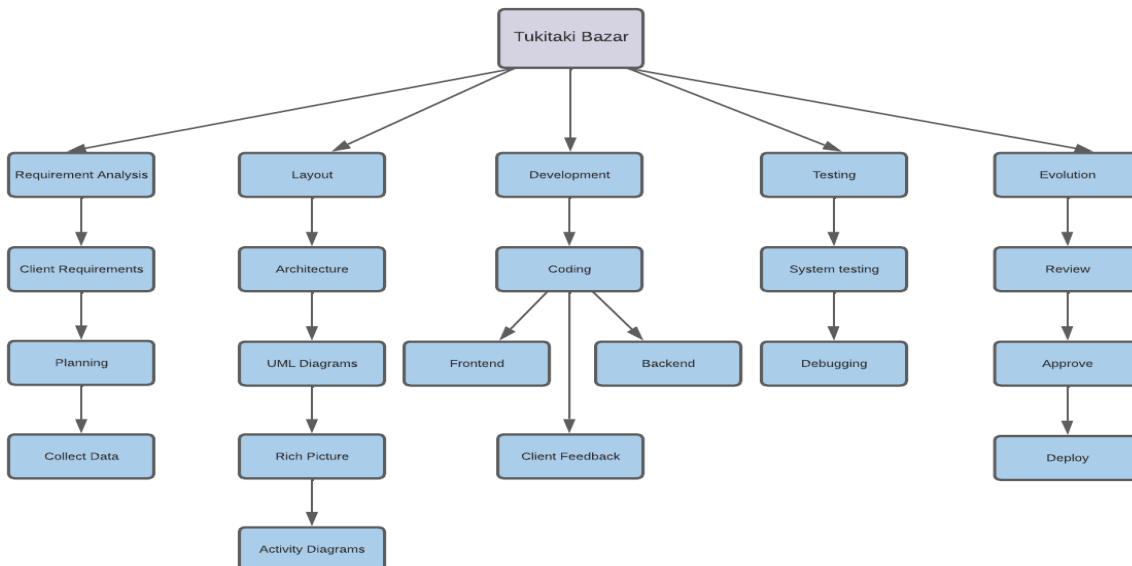


Figure 3.1: Work breakdown structure

3.2 Process/Activity wise Time Distribution

Schedule was allotted for each area indicated in my Work Breakdown Structure so that the project could be completed on time. The time allocation of the task is shown in the table below.

Task	Duration(days)	Percentage
Project Planning	15	16.67
Requirements Analysis	10	11.11
Design	10	11.11
Development	30	33.33
Testing	15	16.67
Implementation	10	11.11

3.2: Time distribution table

3.3 Gantt Chart

We utilized the Gantt Chart to plan and schedule all of the tasks required to execute the project effectively.

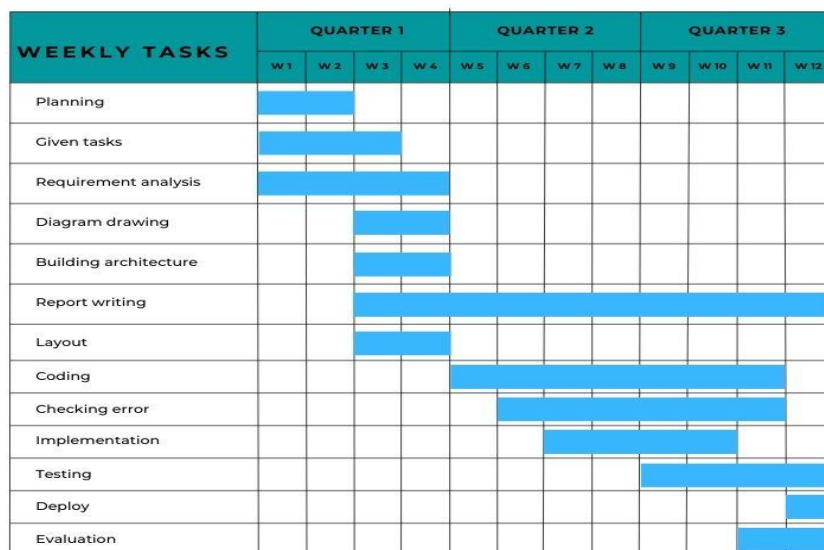


Figure 3.3: Gantt Chart

3.4 Process/Activity wise Resource Allocation

The following is a list of activities and the resources needed for those tasks, taking into consideration both resource availability and project time:

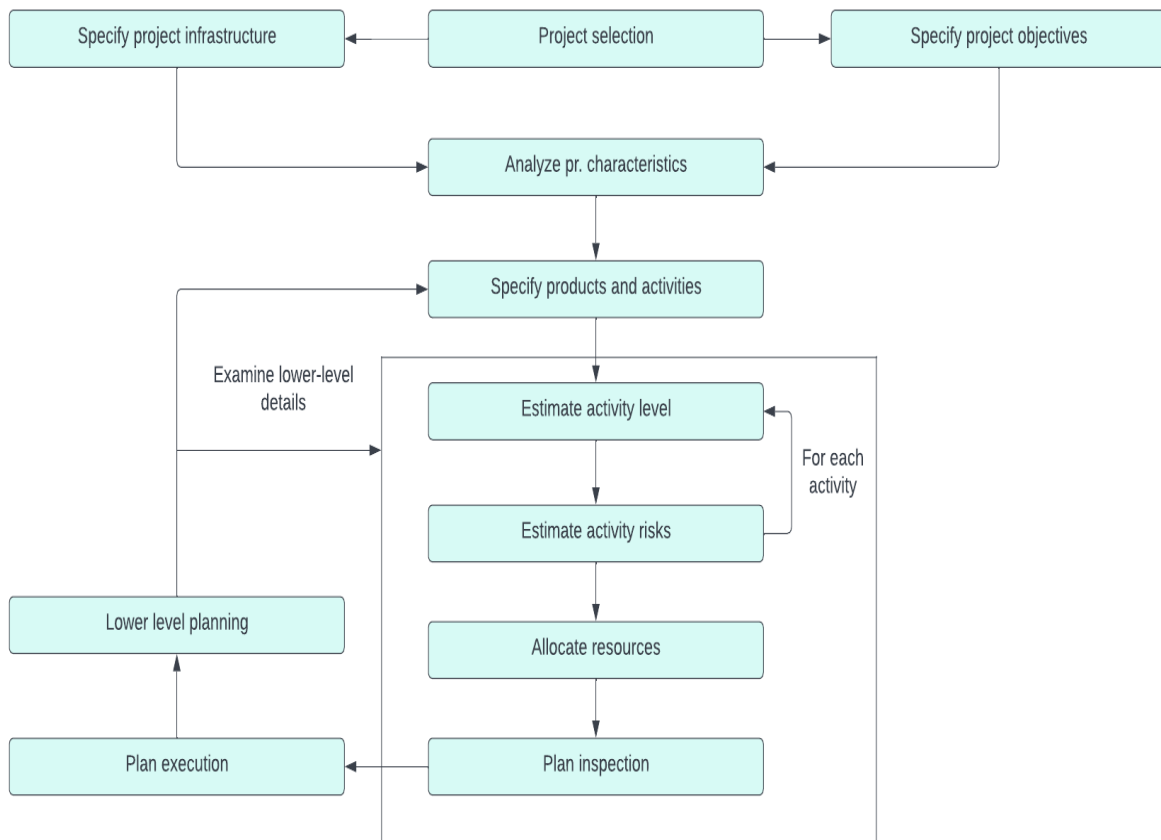


Figure 3.4: Resource Allocation

3.5 Estimated Costing

The cost for the website was decided by the features required by the customer. It is defined by the size, requirements, features, design, and software quality assurance of the website. The developer's fee and the resources used were also taken into account.

Work Distribution	Costing
Structure Building	30,000
Designing	25,000
Development	90,000
Testing	30,000
Software Quality Assurance	60,000
Total	2,35,000

3.5: Estimated Costing Table

Chapter 4

Methodology

We will be using Agile methodology here. Agile methods divide projects into smaller iterations, or portions, and do not include long-term planning explicitly. At the outset of the development process, the project scope and requirements are spelled out, with plans for the number of iterations, time, and scope of each iteration well stated in advance. Using the agile technique, a project can be managed by segmenting it into several phases. Continuous improvement, as well as continuous collaboration with stakeholders, are necessary at all stages. Once work begins, teams go through a cycle of planning, carrying out, and evaluating it. First, I'm going to go through the necessary at all stages. Once work begins, teams go through a cycle of planning, carrying out, and evaluating it. First, I'm going to go through the project's needs. After that, I'll do some sketches and diagrams. I'll design the system and work on the functionalities accordingly. The website will be developed on an as-needed basis. After the code is completed, the program will be tested. The system will then be evaluated. These are the actions I will take to finish the project using the agile method.

Phases of Agile Model:

1. **Requirements gathering:** In this phase, you must define the requirements. You should describe business opportunities and estimate the time and effort required to complete the project. You can assess the technical and economic feasibility based on this information.
2. **Design the needs:** Once the project has been selected, collaborate with stakeholders to create the requirements. You may use a user flow diagram or a high-level UML diagram to demonstrate the functionality of new features and how they will interact with your existing system
3. **Construction/iteration:** Work begins when the team defines the requirements. Designers and developers start working on their project, which aims to deploy a working product. The product will undergo various stages of improvement, so it includes simple, minimal functionality.
4. **Testing:** In this phase, the Quality Assurance team examines the product's performance and looks for the bug.
5. **Deployment:** In this phase, the team issues a product for the user's work environment.
6. **Feedback:** After releasing the product, the last step is feedback. In this, the team receives feedback about the product and works through the feedback.

Chapter 5

Body of the Project

5.1 Work Description

The website's goal is to make online trading easier for both vendors and customers. My job is to create an online food store. I used XAMPP to manage the database on the website. To develop the website, I used HTML, CSS, JavaScript, Bootstrap for the front end and Laravel, PHP for the backend

5.2 Requirement Analysis

5.2.1 Rich Picture

A Rich Picture is a way to analyze, acknowledge, and identify a situation while simultaneously graphically portraying it in order to develop an initial mental model.

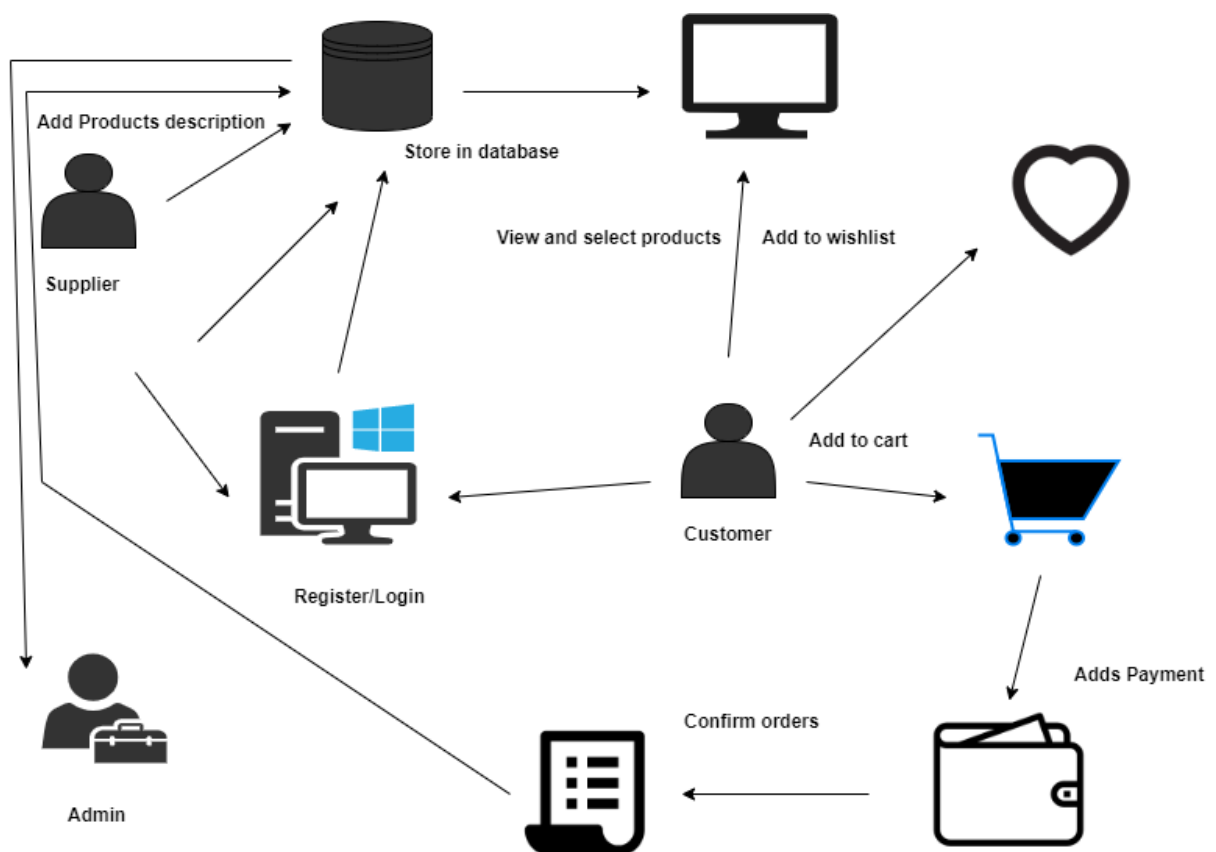


Figure: 5.2.1 Rich Picture

5.2.2 Functional and Nonfunctional Requirements

Functional Requirements

- Function: Sign up as admin
 - Input: Name, email, password.
 - Output: Signed up as an admin.
 - Condition: To properly login as an admin, one must first sign up.
- Function: Sign up as customer
 - Input: Name, email, password.
 - Output: Signed up as a customer.
 - Condition: To properly login as a customer or user, one must first sign up.
- Function: Wish list
 - Input: Name, email, password.
 - Output: Signed up.
 - Condition: To add products to the wish list, users must first log in.
- Function: Add to Cart
 - Input: Name, email, password.
 - Output: Signed up.
 - Condition: To add products to the Add to cart, users must first log in

Non-Functional Requirement

Responsiveness: The site is accessible from any device. It may be viewed via a phone, laptop, desktop, or any other device with similar capability. Google Chrome, Internet Explorer, Mozilla Firefox, and other web browsers are also supported.

Smoothness and performance: The response time of this system is quite quick. Users won't have to wait long. The login and registration processes are really smooth, and one will not have to wait any longer.

5.3 System Analysis

5.3.1 Six Element Analysis

Process	Human	Non-computing hardware	Computing Hardware	Software	Database	Communication/Network
Adding products	Admin	Pen, paper & stationary	Computer	Excel sheet, MS Word	RDBMS	Lan/Wan
Updating products	Admin	Pen, paper & stationary	Computer	Excel sheet, MS Word	RDBMS	Lan/Wan
Roaming products	Admin	Pen, paper & stationary	Computer	Excel sheet, MS Word	RDBMS	Lan/Wan
Removing products	Admin	Pen, paper & stationary	Computer	Excel sheet, MS Word	RDBMS	Lan/Wan
Order placing	Customer	Pen, paper & stationary	Computer	Excel sheet, MS Word	RDBMS	Lan/Wan
Order managing	Customer	Pen, paper & stationary	Computer	Excel sheet, MS Word	RDBMS	Lan/Wan
Add to cart/wishlist	Admin	Pen, paper & stationary	Computer	Excel sheet, MS Word	RDBMS	Lan/Wan

Figure-5.3.1: Six Element Analysis

5.3.2 Feasibility Analysis

Because a feasibility study evaluates a project's prospects of success, perceived fairness is an important factor in the research's credibility with possible investors and lenders. It analyzes if the idea is ethically, logically, and commercially feasible, as well as worth investing in. Such as:

- It was not simple to finish the project on time in order for it to be a success. The project was completed on time, and all allocated duties were accomplished as well. This website's advantages and costs have both been taken into account. On the website, there are no extra fees for users. When a person accesses the website and chooses to make a purchase, they do so in the hopes of making money.
- The benefits and drawbacks of this website have been considered. There are no additional payments for users on the website. When someone visits the website and decides to make a purchase, they are hoping to make money.

5.3.3 Problem Solution Analysis

There were a number of problems that were encountered while completing the project and they were solved accordingly. Some of the problems were –

1. Login/Register Authorization: Setting up unique keys for registered users and administrators was a difficulty that was overcome by utilizing the role system.
2. Hashing Password: In the database, hashing password was a task that was overcome by utilizing bcrypt hash password.
3. Responsive Website: Making the website responsive for all devices was a significant issue. Bootstrap5 and custom CSS were used to overcome this issue.

5.3.4 Effect and Constraints Analysis

This website enables customers to purchase everyday supermarket items at the most recent pricing. Customers may browse the website to view the many items from various companies, as well as the most recent prices. Our system, however, has certain limits, and it will be modified to bring forth more modifications and add more features for the customer to make it more user friendly so that a client comes to this site and buys things from here rather than other sites.

5.4 System Design

5.4.1 UML Diagrams

The activity diagram is a key UML diagram that demonstrates how one action leads to another. The user and admin activity diagrams assist in visualizing the flow of their activities.

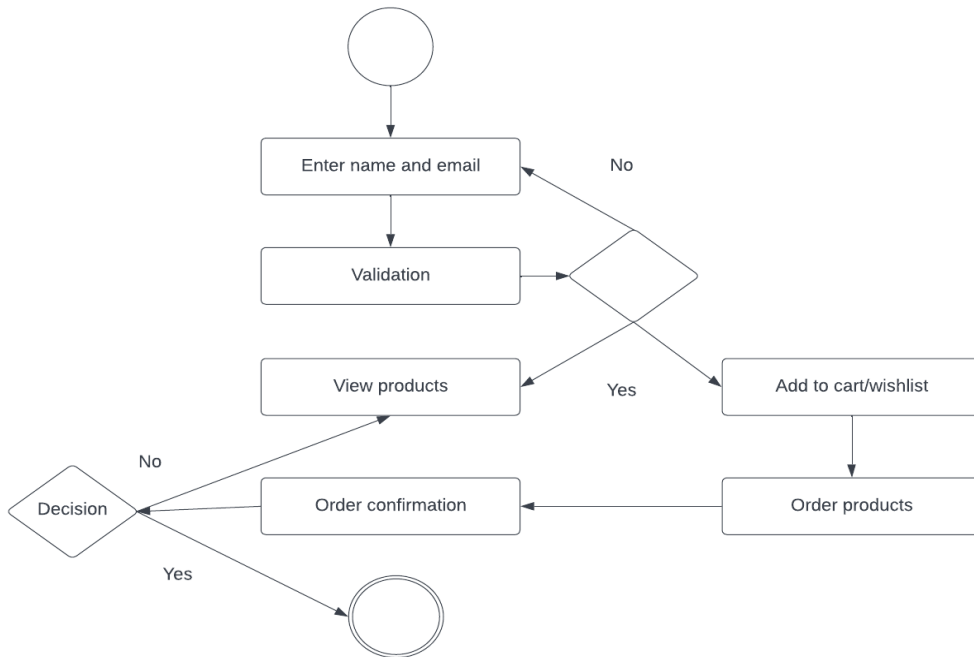


Figure-5.4.1: Activity Diagram of customer

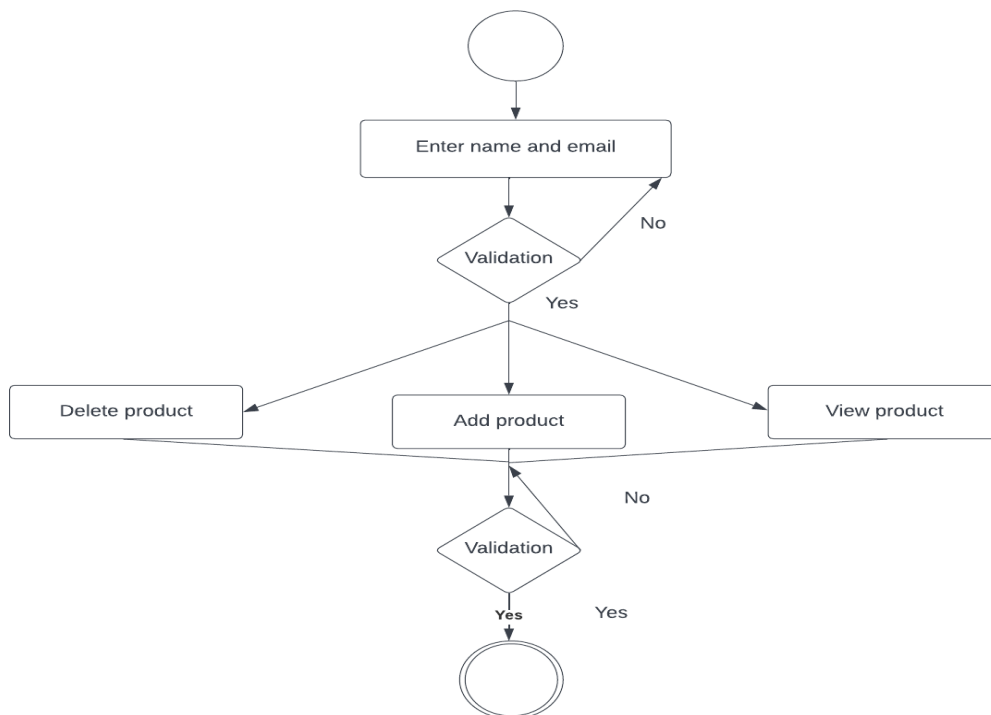


Figure-5. 4.2: Activity Diagram of Admin

5.4.2 Use-case Diagram:

The use case diagrams show the system's functional needs. It displays the actors, the cases, the communication lines, the system, and the relationship.

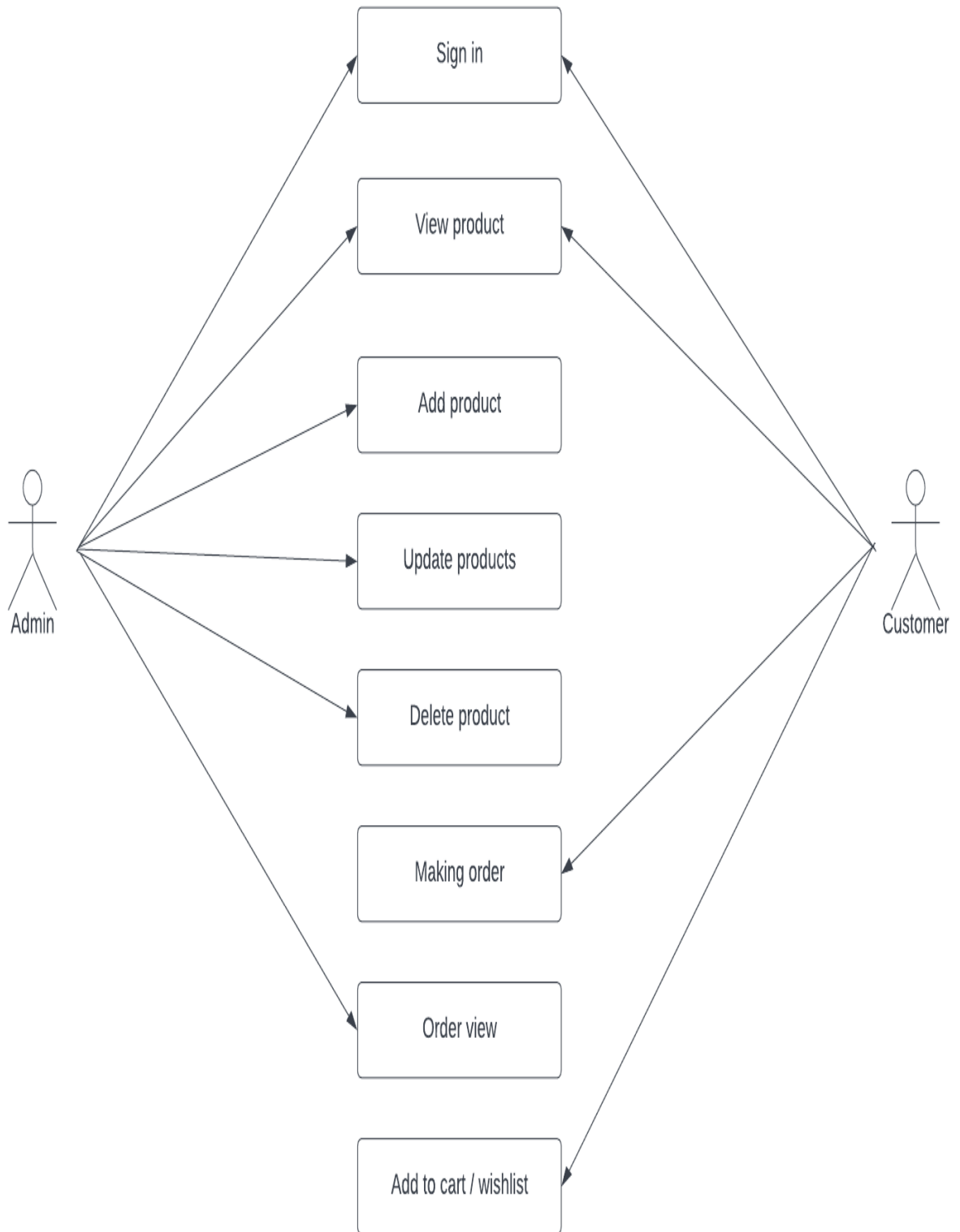


Figure-5.4.2: Use Case Diagram

5.4.3 Architecture

- This project was built using the MVC design pattern. MVC stands for Model, View, and Controller.
- The model provides a method for inserting, retrieving, and updating data from the database. The view contains the data that is shown to viewers.
- The controller is used to link the model and view in order to handle HTTP requests and build a web page. The controller receives all requests and forwards them to the model and view. When a person visits a website, they see information.

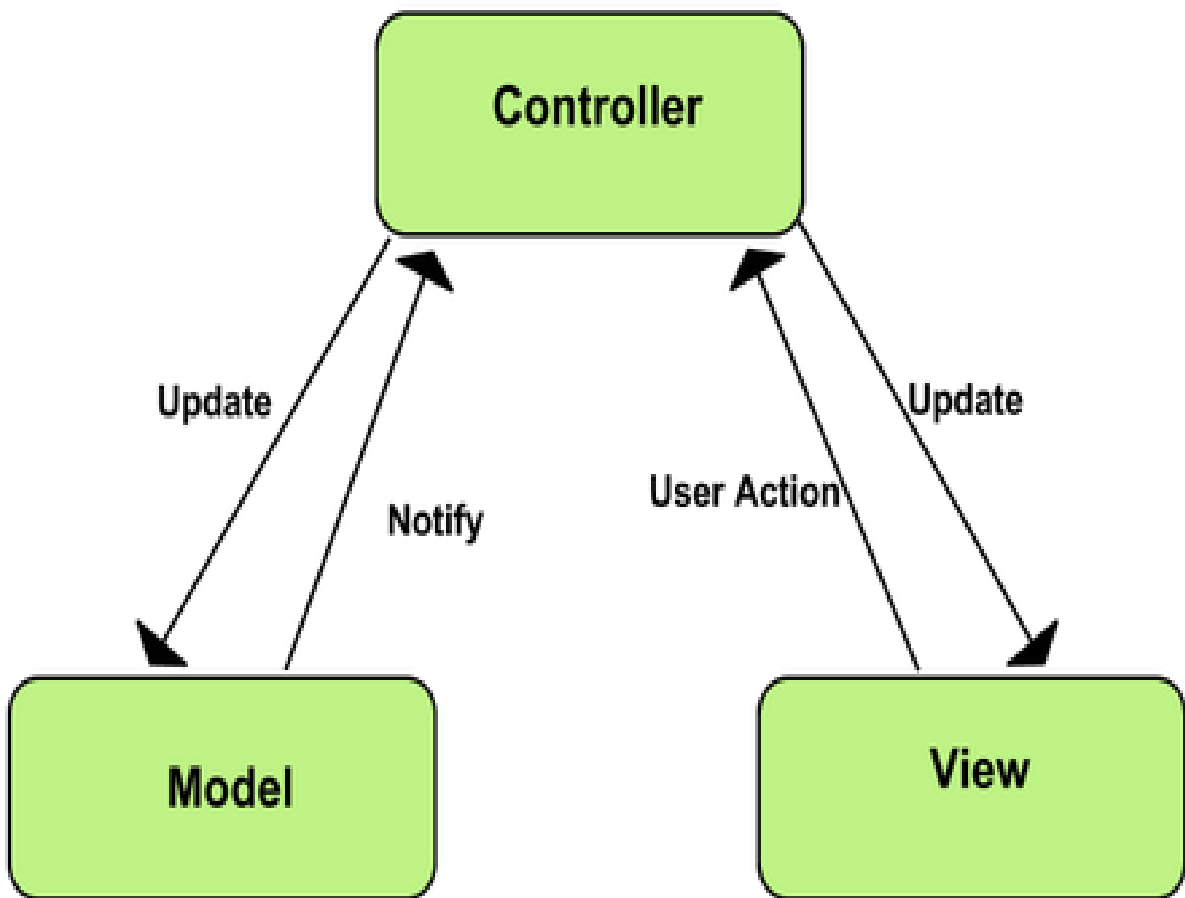


Figure-5.4.3: MVC Architecture

5.5 Implementation

Customer cart:

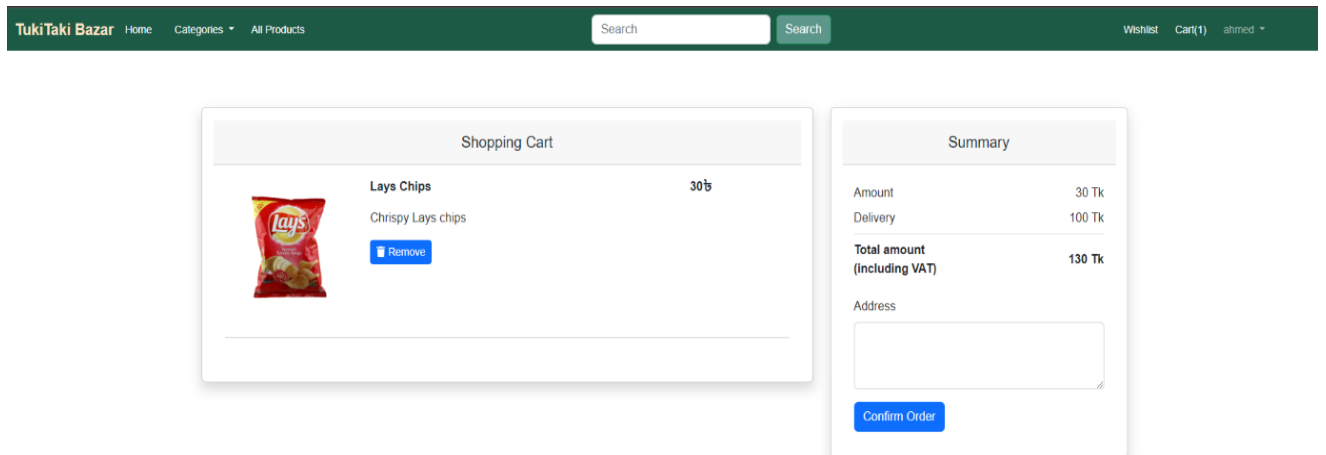


Figure 5.5.1: customer cart

Admin Panel: Add, remove, edit, view, and update products

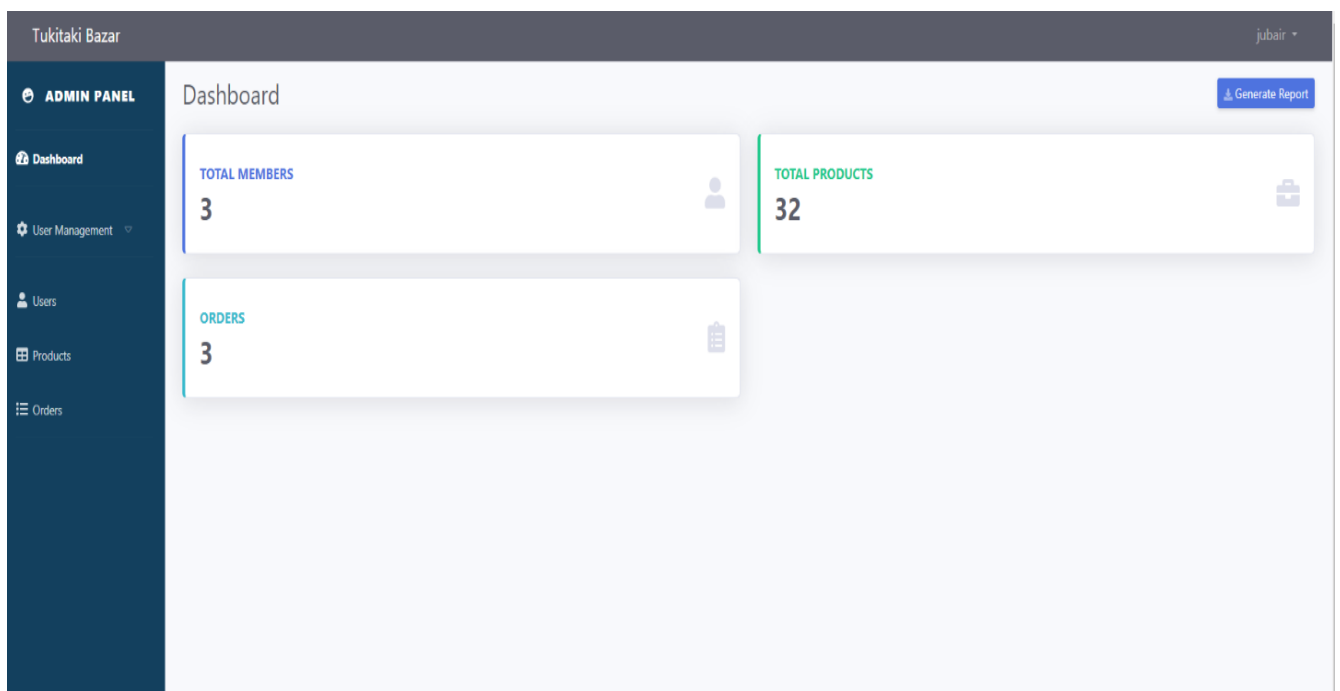


Figure 5.5.2: Admin panel

Order: This option displays the entire cost and allows you to place an order.

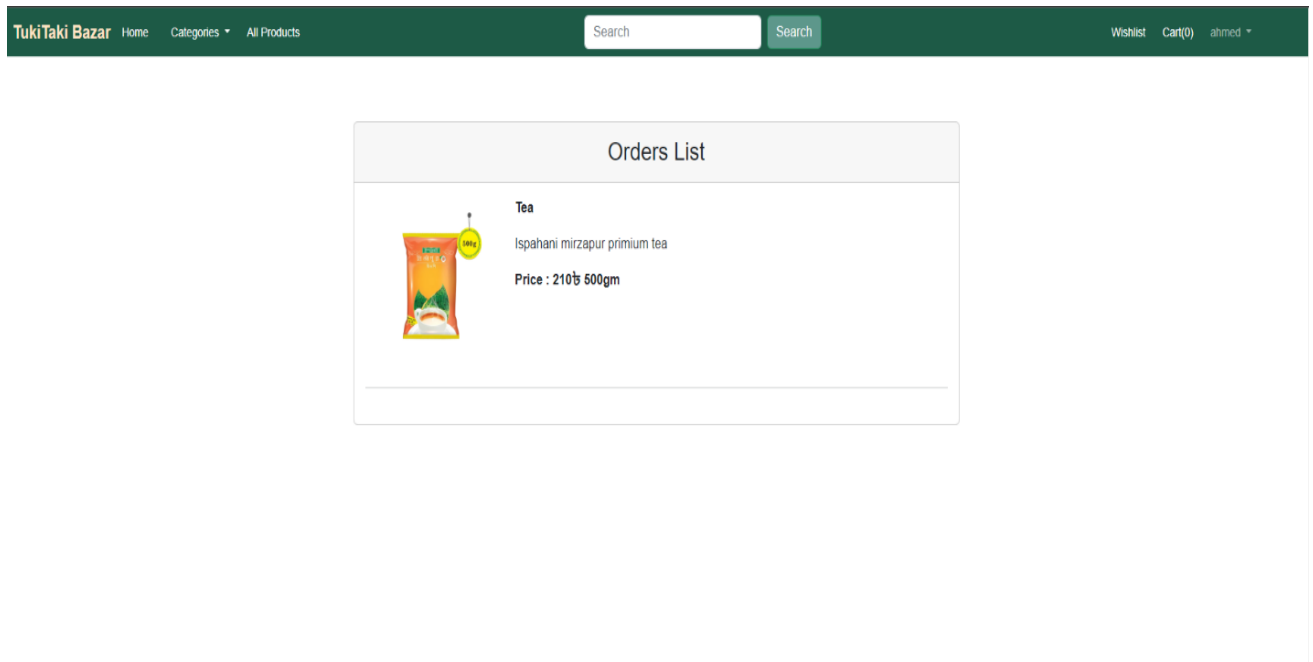


Figure 5.5.3: Order view

To place an order, the customer must put down his or her address, after which the purchase will be confirmed.

Order list:

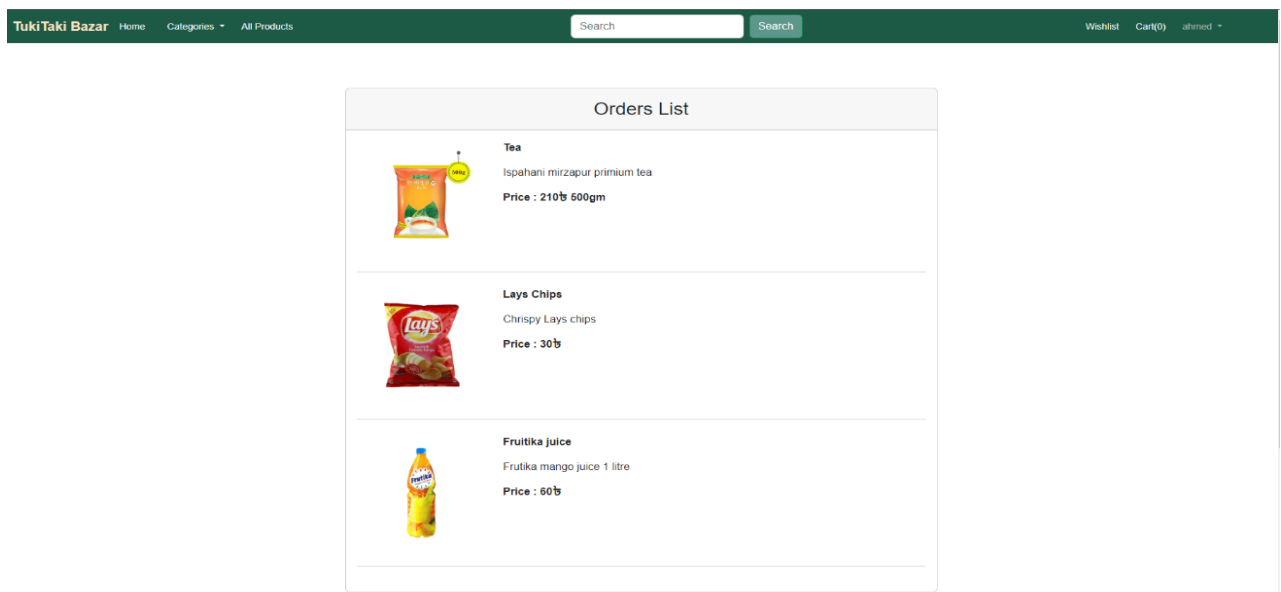


Figure 5.5.4: Order list

5.6 Testing

5.6.1 Input

Sign-Up as admin

The screenshot shows the top navigation bar of 'TukiTaki Bazar' with links for Home, Categories, and All Products. A search bar and Search button are on the right, along with Login and Register buttons. The main content area features a 'Register' form with the following fields: 'User name' containing 'jubair', 'Email address' containing 'jubair@gmail.com', and 'Password' containing six asterisks. A 'Register' button is located below the password field. A small text note below the email field states: 'We'll never share your email with anyone else.'

Figure 5.6.1 .1: Admin Sign In

Sign-Up as customer

This screenshot shows the same 'Register' form as in Figure 5.6.1.1, but with empty input fields for 'User name', 'Email address', and 'Password'. The navigation bar and search functionality are identical to the previous figure.

Figure 5.6.1.2: Customer Sign Up

Login as user:

TukiTaki Bazar Home Categories All Products Search Search Login Register

Register

User name

Email address

We'll never share your email with anyone else.

Password

Register

Figure: 5.6.1.3

5.6.2 Output

Page appears to users:

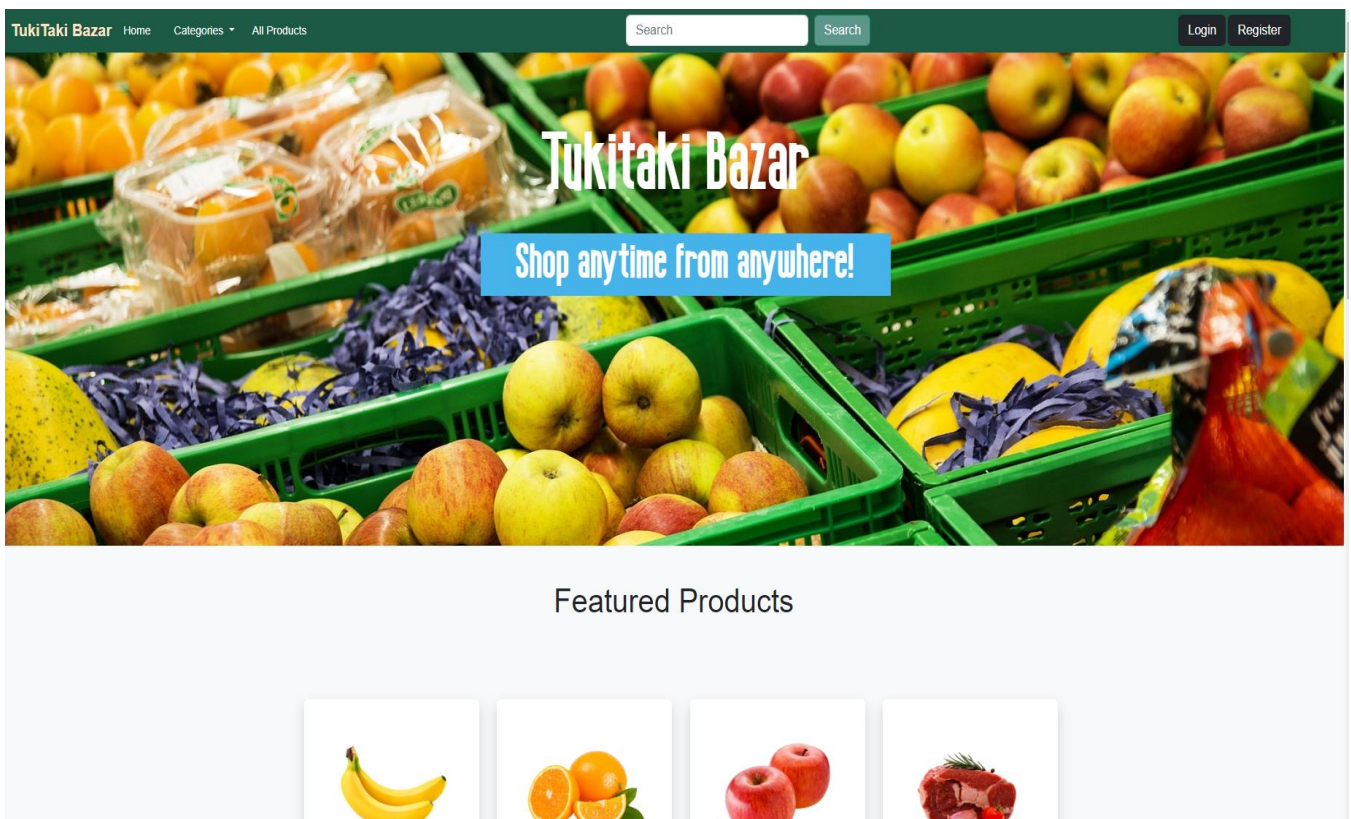


Figure-5.6.2.1: Homepage

User cart's view:

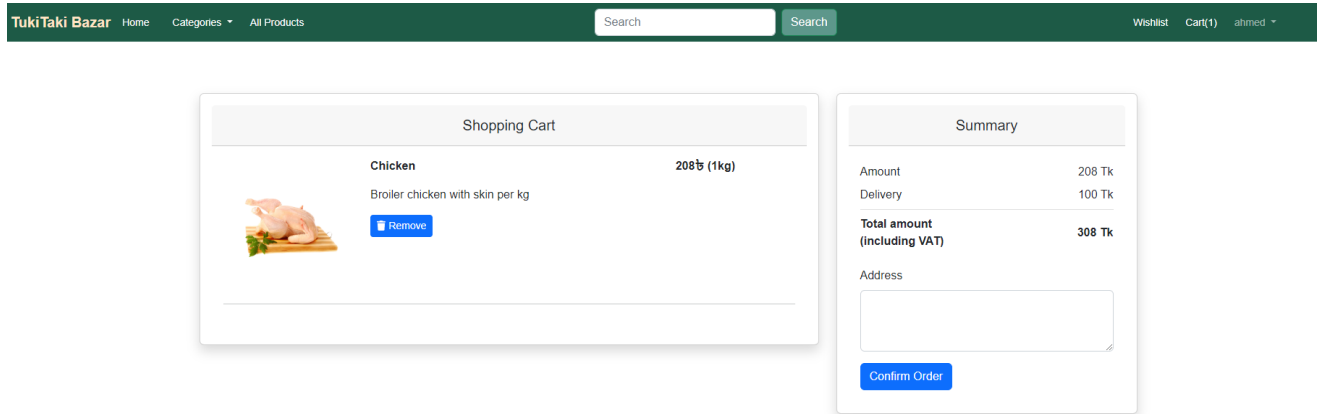


Figure:5.6.2.2

User wish-list's view:

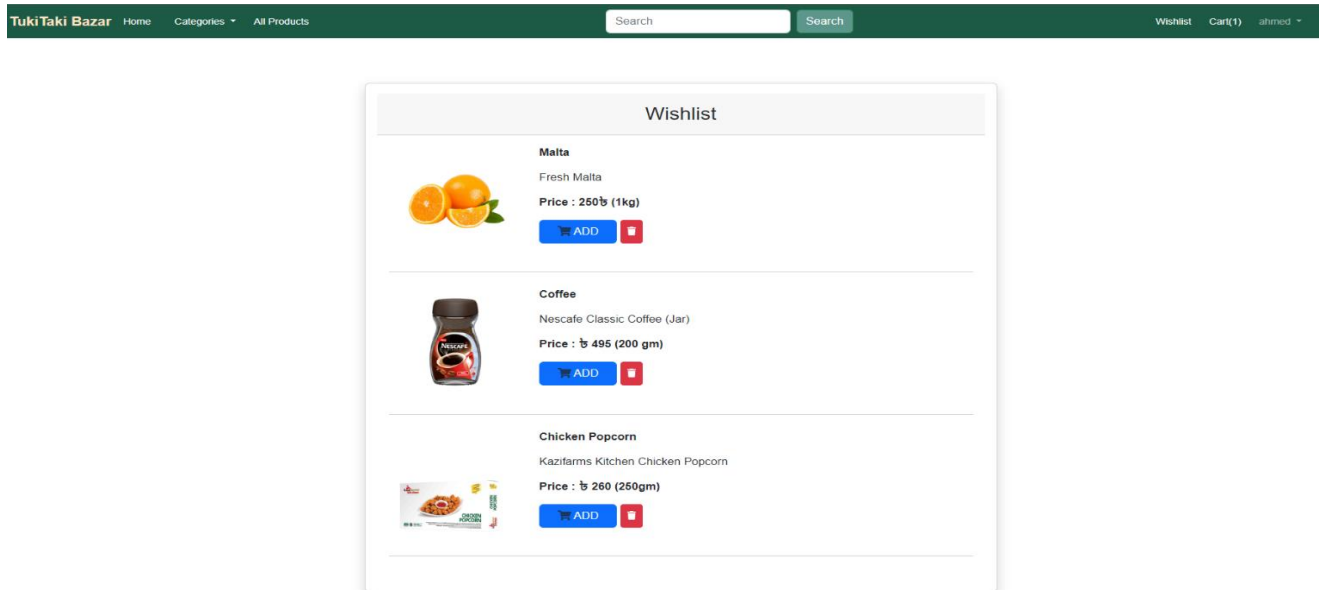


Figure:5.6.2.3

5.6.3 Test Results:

Users may successfully place their orders by writing down their addresses from the cart section, and they can view their orders separately

The screenshot shows the 'Orders List' section of the TukiTaki Bazar website. The header includes the site name 'TukiTaki Bazar', navigation links for 'Home', 'Categories', and 'All Products', a search bar, and user account information for 'ahmed'. The 'Orders List' contains three items:




Orders List	
	Tea Ispahani mirzapur premium tea Price : 210₹ 500gm
	Lays Chips Crispy Lays chips Price : 30₹
	Fruitika Juice Frutika mango juice 1 litre Price : 60₹

Figure: 5.6.3.1

Admin panel order view :

The admin may view the various ordered products for specific users.

The screenshot displays the 'ADMIN PANEL' interface for 'Tukitaki Bazar'. The user 'jubair' is logged in. The main heading is 'Find Orders by date'. Below this, there are two date input fields for 'Start date' and 'End date', both in 'mm/dd/yyyy' format, and a search button. A 'Generate Report' button is also present. The 'Orders' section contains a table with the following data:

Product ID	User ID	Status	Address	Order Date
10	1	pending	Dhaka, Rampura	2023-01-15 03:52:57
3	1	pending	Dhaka, Azampur	2023-01-15 03:52:57
2	1	pending	badda	2023-01-25 16:21:11
3	1	pending	uttara	2023-01-28 22:46:52
3	1	pending	uttara	2023-01-28 22:46:52
14	2	pending	banasree	2023-01-29 00:07:39
11	2	pending	Banasree	2023-01-29 00:08:54
16	2	pending	Banasree	2023-01-29 00:09:10
2	3	pending	badda	2023-01-29 00:16:16
1	3	pending	badda	2023-01-29 00:16:16
18	3	pending	badda	2023-01-29 00:16:16

Figure: 5.6.3.2

Chapter 6

6.Results & Analysis

This website was created mainly to make the process of purchasing daily things more convenient for customers. The major purpose of the project was to combine all of this shop's grocery-related products onto one single website so that valued customers could quickly obtain all of their groceries without any hassle. This chapter includes images of the website so that users may see how the actual website looks:

Admin Panel: After signing in as an admin, one can view the dashboard and go to the users, products, and orders pages.

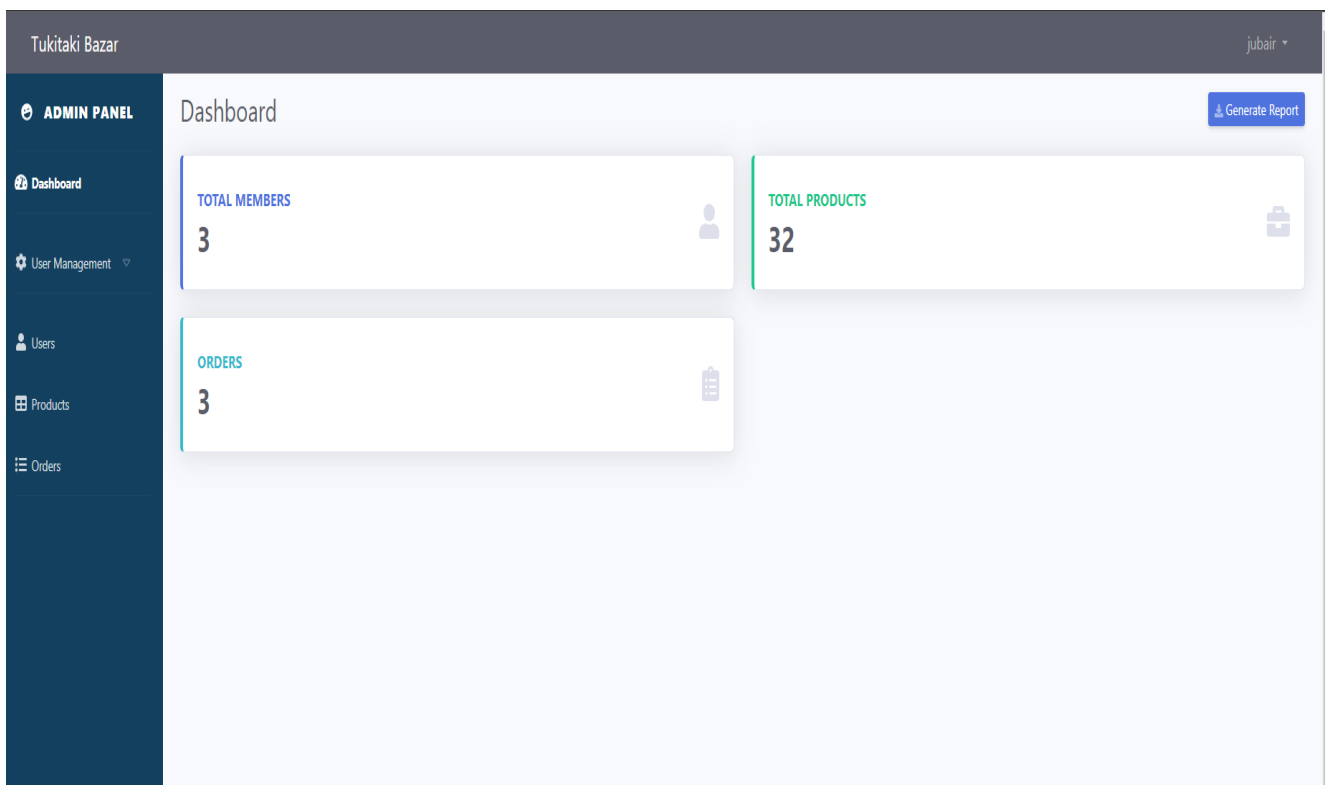


Figure: 6.1

Admin product view:
















Product ID	Name	Price	Description	Image	Edit & Delete
1	Banana	50: (4pcs)	Shagor kola		 
2	Malta	250: (1kg)	Fresh Malta		 
3	Apple	280: (1kg)	Fresh Apple		 
4	Beef	655: (1kg)	Premium beef		 
5	Chicken	208: (1kg)	Broiler chicken with skin per kg		 

Figure: 6.2

Admin Add New Product:

Add New Product

Name

Price

Category

Description

Image

Figure: 6.3

Admin order list view:

Product ID	User ID	Status	Address	Order Date
10	1	pending	Dhaka, Rampura	2023-01-15 03:52:57
3	1	pending	Dhaka, Azampur	2023-01-15 03:52:57
2	1	pending	badda	2023-01-25 16:21:11
3	1	pending	uttara	2023-01-28 22:46:52
3	1	pending	uttara	2023-01-28 22:46:52
14	2	pending	banasree	2023-01-29 00:07:39

Figure :6.4

Report download For Ordered Items:

Figure :6.5

Order Information

Order No.	Product ID	User ID	Status	address	Order Date
4	10	1	pending	Dhaka, Rampura	2023-01-15 03:52:57
5	3	1	pending	Dhaka, Azampur	2023-01-15 03:52:57
6	2	1	pending	badda	2023-01-25 16:21:11
7	3	1	pending	uttara	2023-01-28 22:46:52
8	3	1	pending	uttara	2023-01-28 22:46:52
9	14	2	pending	banasree	2023-01-29 00:07:39
10	11	2	pending	Banasree	2023-01-29 00:08:54
11	16	2	pending	Banasree	2023-01-29 00:09:10
12	2	3	pending	badda	2023-01-29 00:16:16
13	1	3	pending	badda	2023-01-29 00:16:16
14	18	3	pending	badda	2023-01-29 00:16:16

Figure:6.6

Chapter 7

Project as Engineering Problem Analysis

7.1 Sustainability of the Project/Work

Sustainability refers to a product's ability to be updated and maintained. Every new website or app released in the modern day must be often updated for its user base. These little but critical changes have made the website sustainable. Image compression to reduce file size: The maximum number of images and goods per section have been preserved to speed up loading. This project's responsiveness is also appropriate for both large and small displays.

7.2 Social and Environmental Effects and analysis

Social Effect - The major purpose of the website is to gather all of the things from many categories of varying quality under one site so that people can simply obtain all of the information from the comfort of their own homes.

Environmental Effects- People should be more cautious, and the website will allow people to purchase things from many categories/brands on the internet.

7.3 Addressing Ethics and Ethical Issues

Security of Data Storage: The database and backend server are only accessible to the main developer.

Collecting only must needed data: The website only collects required user information, such as name, email address, and phone number. There will be no further data collection.

Chapter 8

Lesson Learned

8.1 Problem faced during this period

It was tough for me to deal with all of the obstacles and hurdles I met throughout my internship. But as unfamiliar with the Laravel framework. So, my supervisor assigned me a task-related project, and I gradually grew acquainted with it. Because this is not a usual project to construct and takes a long time, I had to overcome challenges in terms of learning and productivity.

8.2 Solution of those problem

Throughout this adventure, everything looks to be going Everything looks to be going seamlessly during this adventure. I completed my internship at a reputable and well-known firm. Throughout the day, I gradually grew more acclimated to the flow of work and the overall load of duty. I've learnt a lot in terms of education. I've worked more on my own to better my project. This was mirrored in my work, which looks to be incredibly productive and beneficial. And I finished the job, as well as the report to be presented to my internal supervisor, on time.

Chapter 9

Future Work & Conclusion

9.1 Future Works

This website still needs a lot of work, and it will be built gradually and step by step.

Cart Options: There are several tasks that must be done.

Category: More categories and brand names will be added to the category area.

Responsiveness: This website will be made more responsive to all devices, as well as large and small displays.

Admin panel: In the future, the admin panel will be further customized to meet the needs.

Total cost: Because the payment option is not yet available on the website, it will be added later.

9.2 Conclusion

Working as an intern with IBCS-PRIMAX Software (Bangladesh) Ltd was an amazing experience. I learned a lot and used what I learned during the internship. I was introduced to new technologies and encouraged to improve. I've learned a lot about different development methodologies. My supervisor was always available to answer questions and make me feel at ease, despite their busy schedules. This internship opportunity allowed me to do market and development research. I'd want to thank everyone who helped make my time as an intern such a memorable experience yet again.

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An Undergraduate Internship/Project on Online Grocery Shop Website

By

Ahmed Jubair Nijum
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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)

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