

**HAT-BAZAR: A COMMERCIAL SITE FOR HEALTHY AND FRESH
FOOD DELIVERY**

BY

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This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Computer Science and Engineering

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APPROVAL

This Project “Hatbazar: A commercial site for healthy and fresh food delivery”, submitted by Md.Jibon Hossain, ID No: 181-15-1831 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfilment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 04/02/2023.

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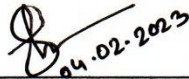


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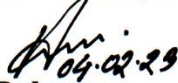
We hereby declare that, this project has been done by us under the supervision of **Dr. S.M. Aminul Haque**, Associate Professor, **Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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ABSTRACT

This report is intended as a guide for teachers and engineering students when conducting research is part of course-work requirements. Discussion includes a description of a literature search, the purpose of a literature review finding sources (especially for engineering) and a general strategy to help conduct an efficient and productive literature search. Using tools such as this report, students can become more pro-active about their research projects. Teachers can use this report, among other tools, to begin dialog with their students about expectations for research assignments. Two key steps in a literature search are: (i) finding sources; and (ii) synthesizing information. Each of these is addressed in two of the major sections in this report, as well as how the literature search relates to the entire research process. Then pertinent information is repeated in the summary section for convenience. An annotated reference list is included for ease in finding other useful guidance.

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CHAPTER 1

Introduction

1.1 Introduction

Since the COVID-19, the e-commerce industry has grown to be a mega dollar industry. One of the best ways to get the things you want for the house or office is through e-commerce.

To gauge the important parts of improving and discontent levels in the electronic industry, it is essential to build strong relationships with consumers and gain their trust in the e-commerce platform. It is the trade of products and services between businesses and customers. Actually, it's a very vibrant platform. In our nation, this kind of scheme could help with the unemployment issue. We can now get everything we desire by making internet purchases, which has greatly simplified our life. On the additional side, less time is wasted. Conversely, help young people who are unemployed by giving services to reduce poverty in our own nation. I'm hoping that a forum such as this can eventually eliminate all unemployment.

The project's focus is a web-based online purchasing platform called "Hat Baza." Customers should find it easy and simple to purchase organic foods using this technique. The webservice will be profitable for both buyers and vendors.

1.2 Motivation

The presence of an e-commerce web service is unknown to many Bangladeshi small and mid-sized business owners. They will be able to grow their business as a result of this. Maintenance, security upgrades, and a slew of other features are also required. In order to enable entrepreneurs to sell their merchandise online, my goal is to develop a reliable, user-friendly, and errorless e-commerce web service or platform.

- We have come to understand the need for quite an e-commerce website as a result of the COVID pandemic.
- People may have not enough time to go shopping for needs. Then an online store like this might save them.
- People may not have the ability to shop for daily requirements or nutritious foods while they are ill, and illness does not arrive with an invitation.
- Today, finding fresh produce and food is really challenging. Therefore, our primary goal will be to provide consumers with fresh food goods.

1.3 Objectives

The main goals of this initiative are to:

- Simplify daily life.
- to purchase fresh and healthy fruits, veggies, seafood, and meat
- To give busy folks more time.
- To enable everyone to obtain all necessities whenever necessary without leaving the house.

- To guarantee that everyone may easily purchase basics even while ill.
- To facilitate business transactions for new sellers.
- To ensure that no needs go unmet as a result of a pandemic, illness, or work situation.
- To generate additional jobs.
- To inspire new sellers with optimism.

1.4 Expected Outcome

People will be able to get fresh groceries without having to fuss with transportation or waste time hopping from store to store. They will be able to conserve time, money, and energy. They will be able to choose their preferred products, calculate the quantity needed, and add them to the shopping basket. Before completing or confirming the order, they can choose to add or delete things from the cart.

They will be given the option of choosing the time and location of delivery. They can check the status of their order to discover if it has been confirmed, begun shipping, shipped, or been delivered. Only the project administrator will have the ability to add or delete products from the website for users to browse and purchase. In the event that something goes wrong or looks gimmicky, the administrator can have the authority to approve the order or cancel it. It will generate employment and offer young entrepreneurs hope as they launch their ventures, no matter how little or large

CHAPTER 2

Background

2.1 Terminologies

Our website offers a range of advantages. You can place any kind of fresh food order.

Our initiatives are designed to be openly available in order for the large majority of individuals may take control of their lives. This platform offers flexible, affordable, and easy access. Your life is made easier when you use "Hatbazar."

The features that we offer are as follows:

- provide fresh foods
- chatting with seller to know about their goods
- add cart the product
- customer feedback option
- order cancel, exchange and return

2.2 Related Works

There are numerous internet stores with a wide range of reputations that offer client perks. However, most internet stores in Bangladesh are unable to trust their clients. because there are several issues with the food goods they produce. Because of this, most

systems, with the exception of a few, are unable to offer appropriate customer service. As a result, we shall place a high value on the originality and freshness of food goods.

2.3 Scope of the Problem

We faced various challenges while doing this project. We have faced many challenges while working with fresh food. Gaining knowledge about what steps to take to find and store fresh food. When we first began to develop our system, we encountered many challenges in resolving them.

2.4 Challenges

Every work comes with some challenges. As a result, we also have to handle a few challenges. During the course of this endeavor, we ran across a number of difficulties. We went to a website that dealt with online fresh food supply service, made one, and attempted to comprehend how it all worked. Afterward, we discovered their limitations, which we address in our project. We had a lot of difficulties resolving them when we first started to build our system. If an administrator doesn't check the notice for confirmation after a patient makes a reservation, the system will fall short of its main objective. Therefore, the admin must always be accessible for confirmation. It's a significant issue for this project.

Chapter 3

Requirement Specification

3.1 Introduction

Data on consumer demands was the first thing we gathered. Afterward, I examined them. aimed to comprehend their needs and take into account the limitations of the vendors

3.2 Overall Description

The overall description is given below:

3.2.1 System Interfaces

The system will be connected to a web application with MySQL support. The administrator can access the server online.

3.2.2 User Interfaces

The system resembles a desktop program. After being released online, it can be utilized on any cellphone, tablet, or desktop. The technology has been created to be user-friendly.

3.2.3 Communication Interfaces

Data communication between the user/patient and the administrator/server will be done using the transmission control protocol (TCP) and the internet protocol (IP) (IP)

3.2.4 storage Limitation

The amount of storage that our system can accommodate is unrestricted. System assembly, quality planning, testing, and the writing process are all complete at this point in the planning phase.

3.2.5 Operations

The main activity of the architecture is :

- Database
- Searching
- updating
- Editing

- Deleting

3.3 System Model

The system model I proposed is an agile model, that is a progressive framework for software development. Each cycle usually takes one to three weeks. Engineering tasks are managed by cross-functional teams. In software development, the ability to adapt to changes in technology, demands, and users is known to as "agile."

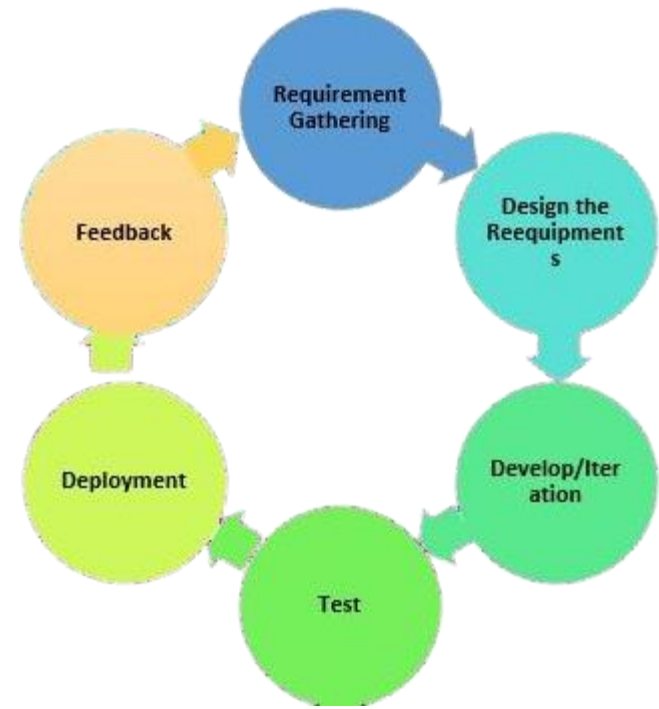


Figure: 3.3.1 agile model

3.3.1 Life cycle of the agile model

The following are the critical phases of the SDLC life cycle's Agile Process model:

Gathering Requirements: You must describe the requirements all through this step of the agile paradigm. It's important to talk about the project's time and effort requirements as well as the business potential. You may assess the technical and financial viability of a system by looking at this data.

Create the specifications: You can collaborate with stakeholders to identify needs after the feasibility research. You may establish how well the new scheme would be merged into your

current software system using the UFD design or rising Uml.

develop: After software development group has defined and designed the requirements, develop/iteration is when the real work starts. Starting with basic and rudimentary functionality, the product will go through many phases of improvement as the market, style, and software developers work together.

Test: The diagnostics team is involved in this stage of the agile model. For instance, at this stage, the Quality Assurance group evaluates the system's functionality and records any issues.

Deployment: This stage sees the user receive the first version of the product.

Feedback: it is the final stage in the Agile Method after the product has been released. During this stage, the team solicits input on the product and uses it to identify issues that need to be fixed.

3.3.2 agile model types

The following are some crucial agile types:

Scrum: This agile methodology is primarily concerned with task management in collaborative development environments. The team must adhere rigorously to a planning process for each Sprint under the Scrum Agile paradigm. Additionally, each participant in this kind of project is assigned a certain duty.

Crystal: One of the easiest and most adaptable methods for designing software is the Crystal process, which takes into account the fact that every project is different. Consequently, it is necessary to modify policies and procedures to fit them. The categories of crystal techniques are as follows:

- CLEAR: Use that for quick, low-stakes tasks.
- ORANGE: Applicant for initiatives that are somewhat significant and important.
- ORANGE WEB: Usually, online commerce

Dynamic Software Development Method (DSDM): With the aim of delivering products often, this Rapid Developer Tools (RAD) method actively incorporates users and gives groups the decision-making authority.

Development of lean software: Its "Just-In-Time Manufacturing" idea serves as the foundation for this system. It aids in accelerating application development and cutting expenses. A lean

new approach eliminates waste while accelerating learning, achieving delivery time, and fostering authenticity.

XP: Extreme Programming: When there are customer requests or needs that are continually changing, test automation is a helpful Agile paradigm. It is also employed when the system's operation is uncertain.

3.3.3 Use of the agile model

The following are typical situations when the agile technique is applied:

- When regular modifications need to be made, this method is employed.
- Projects with little regulatory requirements
- projects utilizing a less-than-strict current methodology
- Those undertakings in which the item proprietor is easily reachable
- programs with adaptable budgets and schedules

3.3.4 Benefits of an Agile Model

Here seem to be a few typical benefits and advantages of the agile method:

- Yet another interaction is used to communicate with customers.
- presents a highly practical strategy for software design
- You may create effective designs and satisfy the demands of the business using the agile methodology in computer science.
- Each week and, new versions of functional programs are made available.
- It provides early-functioning partial answers.
- Anytime is a good moment to make changes.
- By using this Agile Approach, you may cut down on design stage as a whole.
- Within an all-encompassing planned environment, it enables concurrent creation and delivery.
- Within a matter of weeks, the finished product is created and ready for use.

3.4 Requirement Analysis and Specification

You must first make sure that your device complies with the system's criteria before downloading any software or hardware for your system.

The following hardware, software, and development platforms were used by us.

3.4.1 Requirement of hardware

table:3.4.1.1 Requirement of hardware

Processor	intel i3 processor
Motherboard	ASUS Prime H310M
ram	Minimum storage of ram is 2GB
Internet Card	any type of internet card
Graphics Card	Intel UHD Graphics
hard Disk	50GB

3.4.2 Requirement of Software

table:3.4.2.1 Requirement of Software

Software	Usage
VS Code	to create, html, and CSS code
apache web server	communicating to the server
MySQL	to build a database
browser	to view the project's user interface

3.5 Design

We discussed the procedure for creating software, database schema (data architecture, architecture, and other documents), and other documents in this area. Use case model, data - flow illustrations, flowcharts, and DFD diagrams are further attempts to improve this software. The programming languages used to construct this software are as follows:

- Markup Language for Hypertext (HTML)
- CSS Style Sheets (CSS)
- Bootstrap

3.5.1 Hyper Text Markup Language (HTML)

The preferred mark - up language for texts intended to be viewed in an internet browser is HTML or the Hyper Text Markup Language. Technology like Cascading Style Sheet and computer languages like JavaScript can help.

3.5.2 Cascading Style Sheets(CSS)

Cascading Style Sheets is a language for creating style sheets that describe how a material is presented in a markup language, such HTML or XML. The Massive Global Web's foundational technologies, along with HTML and JavaScript, include CSS.

3.5.3 Bootstrap

A open-source and free CSS structure called Bootstrap is designed for front-end web design that prioritizes mobile responsiveness. It includes design themes for style, buttons, icons, navigational, as well as other interface elements that are dependent on HTML, CSS, and JavaScript.

3.6 requirement prosperity

- PHP(Laravel)
- MY SQL

3.6.1 PHP(Laravel)

Prototype (MVC) web applications should be built using the free and open-source Laravel PHP web framework, which was designed by Taylor Otwell and is based on Symfony. Among Laravel's features include a dedicated dependency supervisor, a modular bundling system with many methods to access relational databases, tools for application deployment and upkeep, and a focus on syntactic sugar.[4]

3.6.2 MY SQL

is a system for managing relational databases that is open-source (RDBMS). Its name is a combination of the words "My" and "SQL," which stand for Structured Query Language and

are the names of founder Michael Widenius's daughter. A relational database arranges information into one or more tables where it is possible for the data to be connected to one another. The relational database's data may be created, modified, and extracted using the SQL programming language, which is also used to manage user access to it. An RDBMS, such as MySQL, interacts with a desktop software to create a database system in an user's storage device, manages users, permits network access, and makes it simpler to evaluate database integrity and make backups.

\Under the rules of the General Public License, MySQL is open-source and free software. It is also open under a number of proprietary licenses. Sun Microsystems acquired the Swedish firm MySQL AB, which owned and sponsored MySQL (now Oracle Corporation). Widenius split the accessible MySQL project to develop MariaDB in 2010, the year Oracle purchased Sun.[5]

3.7 Diagram of use case modeling

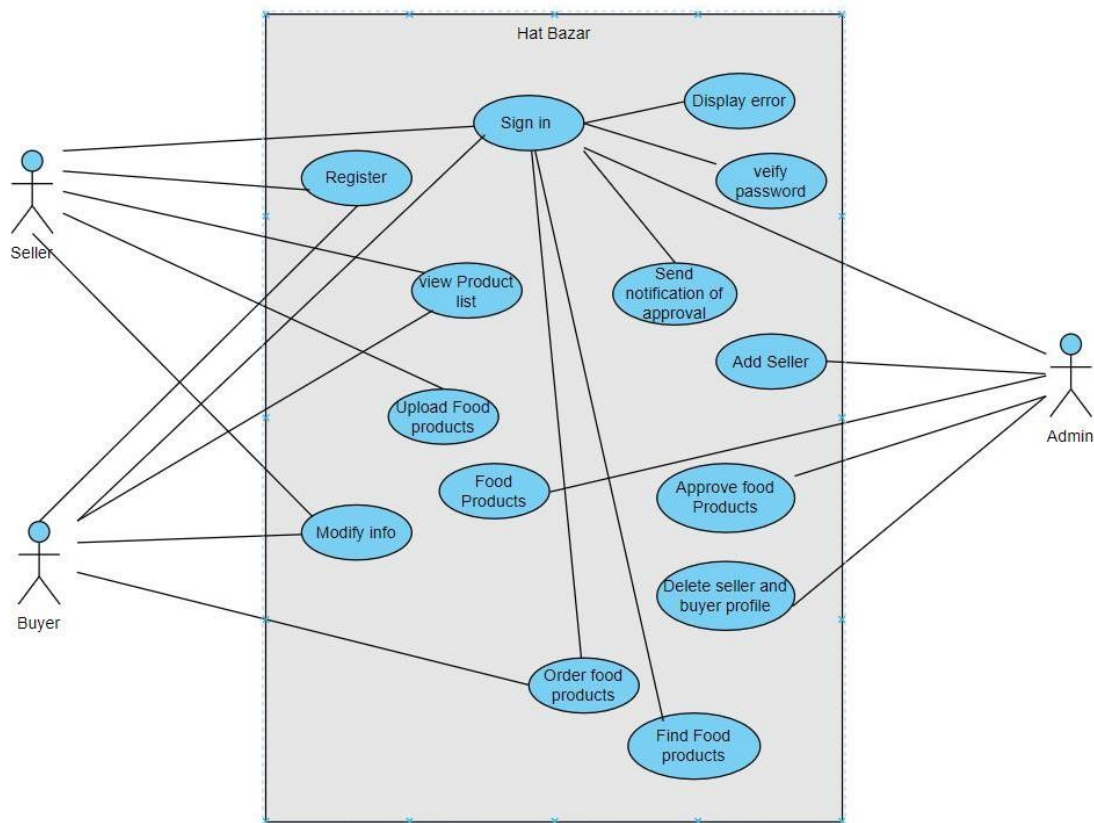


Figure 3.8.1 Dataflow Diagram

3.8 Diagram of Data Flow Diagram

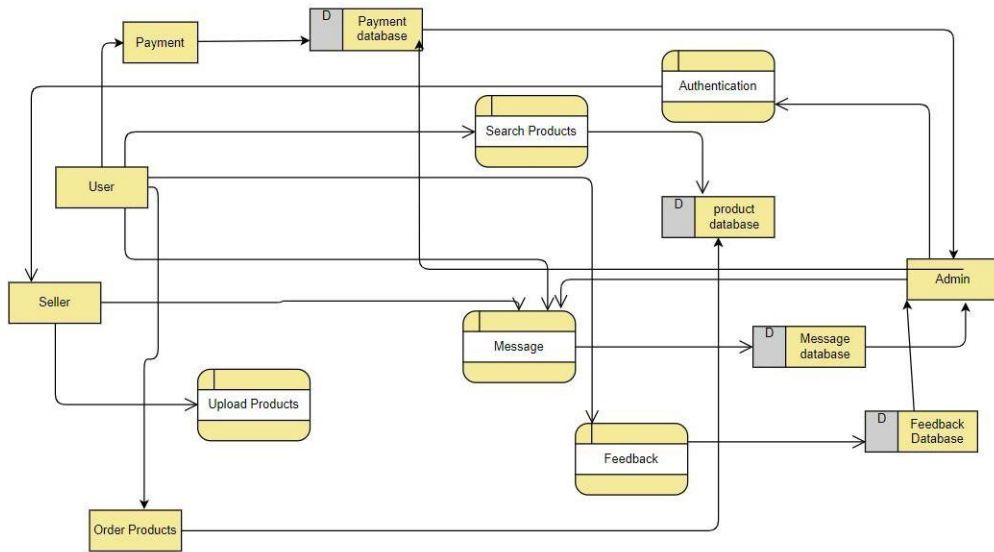


Figure 3.8.1 Dataflow Diagram

3.9 E-R Diagram

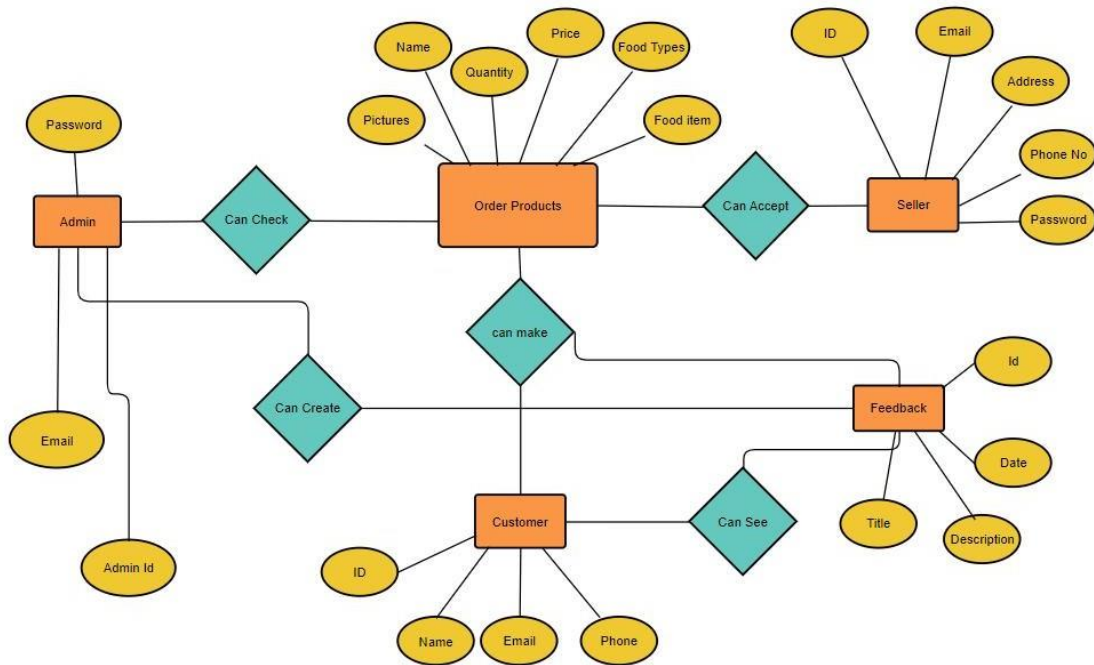


Figure 3.9.1 E-R Diagram

3.10 Class Diagram

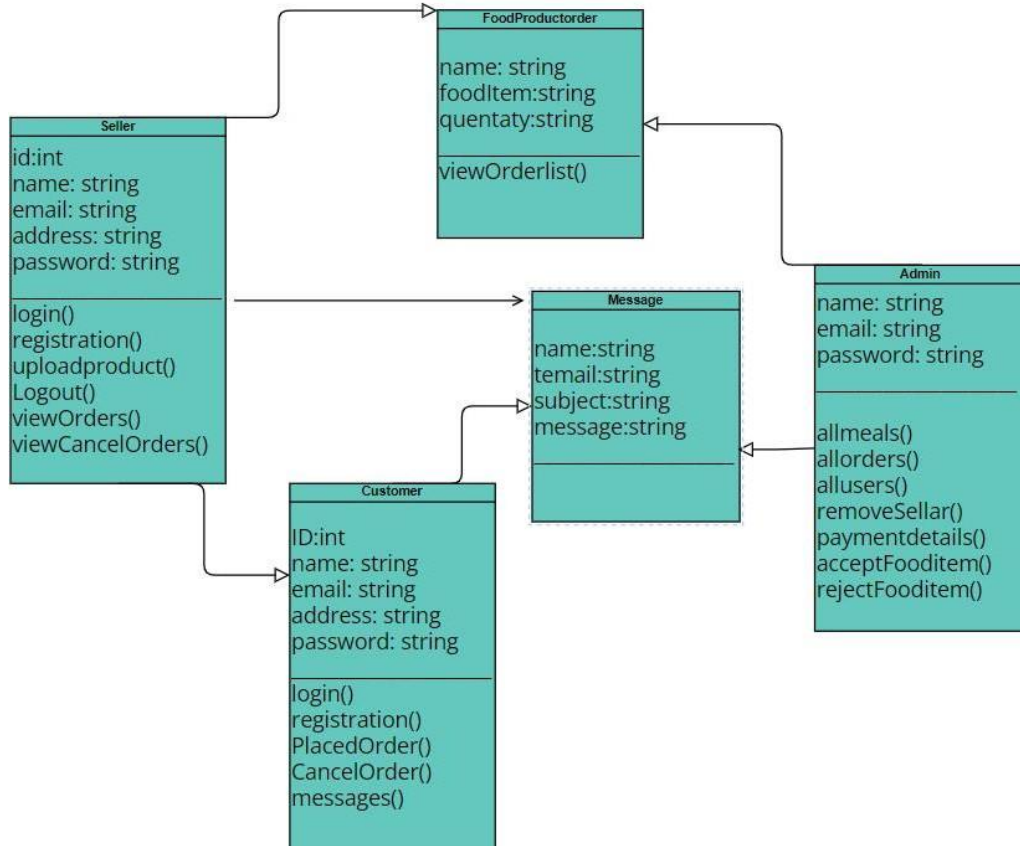


Figure 3.10.1: Class Diagram

CHAPTER 4

Design Specification

4.1 Front-end Design

Usually, there are two sections at the front. both front-end and back-end web development. We use HTML, CSS, and bootstrap for our front-end design. This group includes things like fonts, drop-down options, contact information, and other things. In this section, we present numerous front-end layouts for home pages.



figure 4.1 Home Page

4.2 Back-end Design

Usually, there are three parts to the backend. a server, a database, and an application. The program stores the essential information that the user submitted in a database that was created on a server. Basically, we used the Laravel framework and PHP.

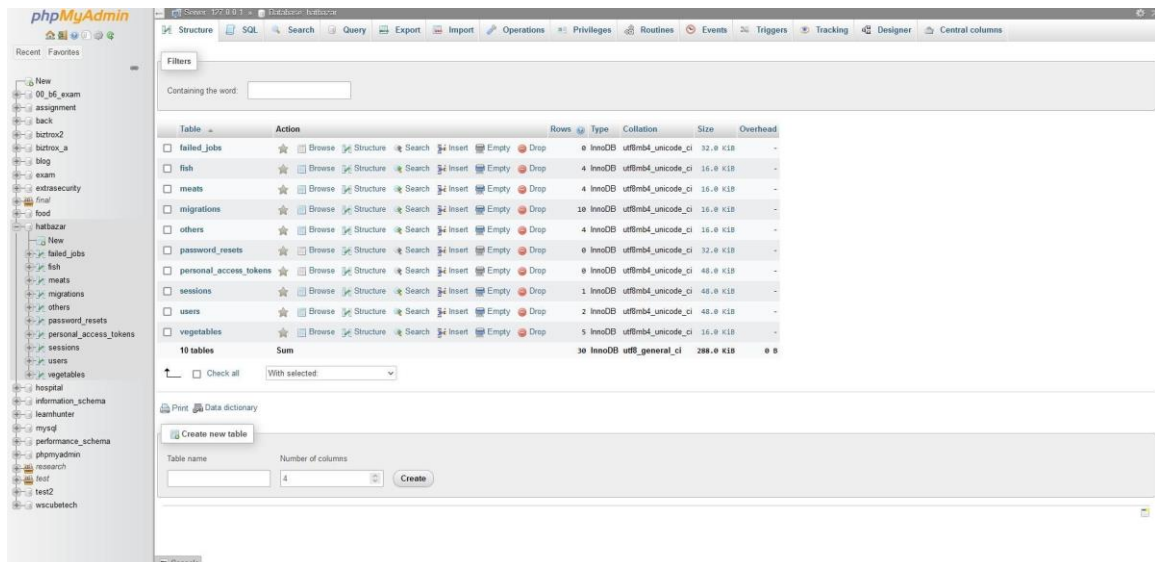


Fig:4.2 backend

4.3 Interaction Design and User Experience (UX)

The method design teams employ to produce products that offer customers meaningful and pertinent experiences is known as user experience (UX) design. UX design includes components of branding, design, usability, and function in the architecture of the full process of obtaining and integrating the products.

4.4 Implementation Requirements

User-friendly design is our projector's primary objective. Therefore, anyone can use the web application.

The following is a list of the implementation requirements:

- easier to create
- facilitating communication
- User-friendly
- Cartoon pages
- easier to regulate

CHAPTER 5

Implementation and Testing

5.1 Implementation of Database

A database is a collection of data that has been organized to make it simple to maintain and update. Data records or files containing information, including as selling, customer information, financial data, and product information, are often aggregated and stored in computer databases.

5.2 Implmentation of Front

Here, the merchant and the client should each register separately. They must input their name, email, phone number, address, ID card or passport number, photo, and password in order to register as a merchant or a consumer. They can visit the website as a user or customer after registering and may see and buy ponies for sale.

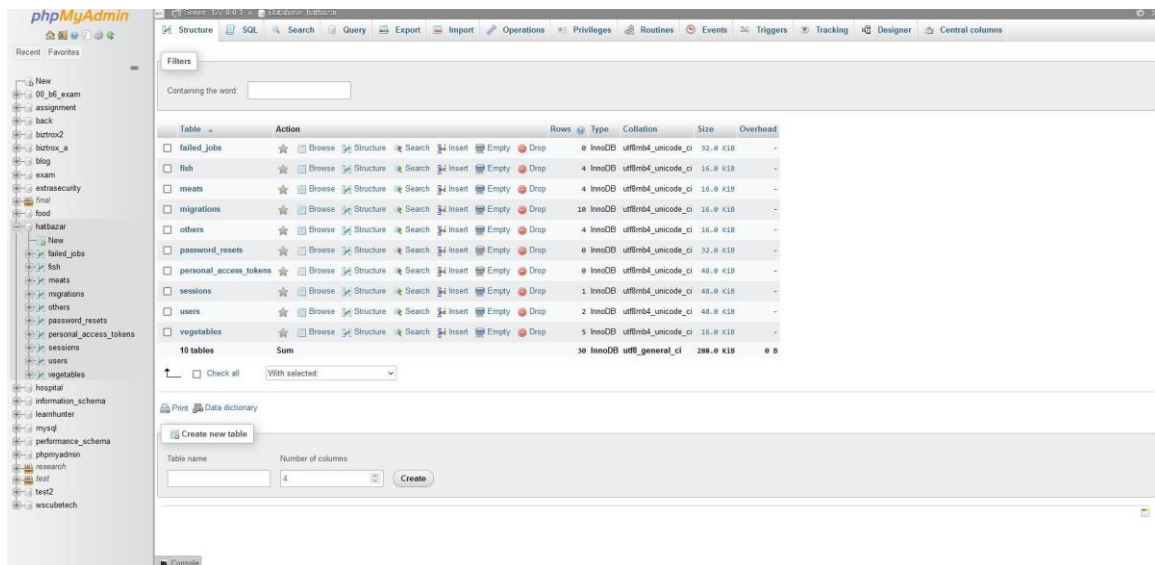


Fig:5.1 Database Design

5.3 Implementation of Front-end Design

After viewing the website's URL, it is the first page. By selecting Products from the top navigation bar, you can search for additional items by category or by using the Shop Now option. The buttons for Cart, Sign-in, and Sign-up are in the top right corner of the navigation bar. If you already have an account with the system, you can log in.

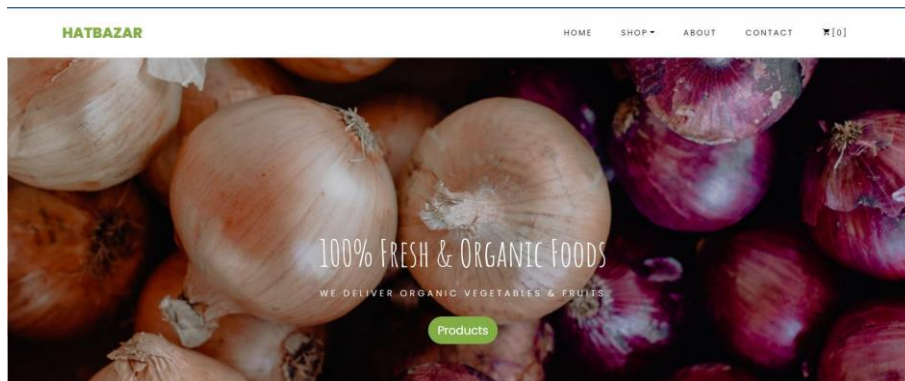


Fig:5.2 Home Page

This onion is an edible bulb. While it is a vegetable at heart, it is also act as a spice in as much as it can provide an aromatic undertone to various meat and vegetable dishes without being a major ingredient.

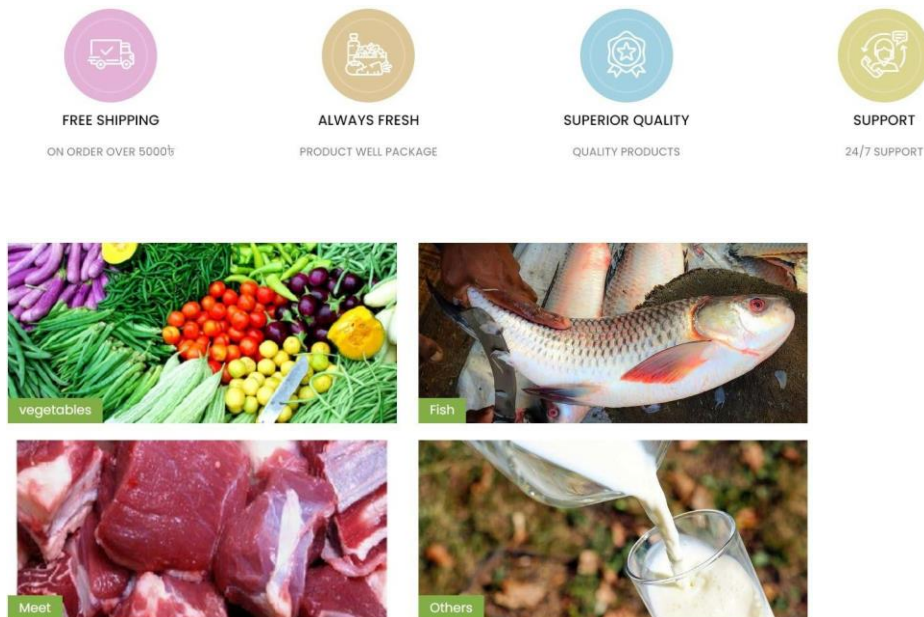


Fig:5.3 Home Page

Foods from this high protein food group (Lean meat and poultry ,fish, eggs, tofu, nuts and seeds and legume/beans) often from the meal, particularly in the evening or for the largest meal of the day.

5.4 Shop

The complete list of foods and products mentioned on the website is available here. You can purchase your preferred products from here if you wish.

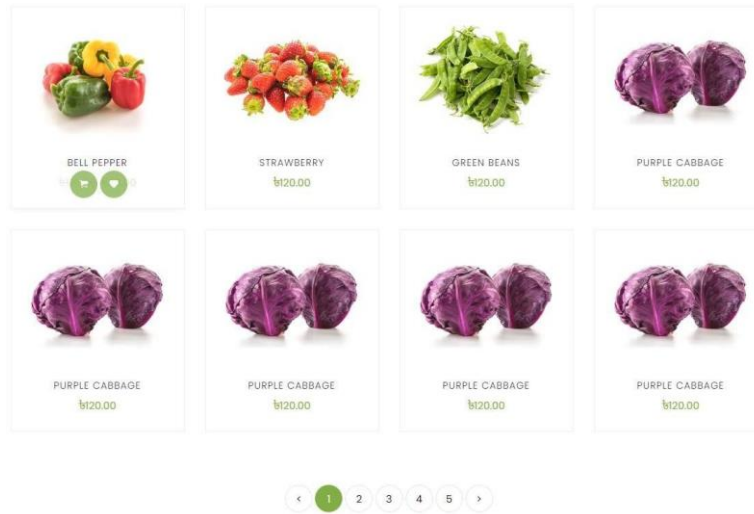


Fig:5.4 list of foods and products

5.5 Wishlist

By selecting Wishlist, you may add your favorite products. It makes it simple to purchase afterwards.









Product List		Price	Quantity	Total	
		Bell Pepper Far far away, behind the word mountains, far from the countries	₹4.90	<input type="text" value="1"/>	₹4.90
		Bell Pepper Far far away, behind the word mountains, far from the countries	₹15.70	<input type="text" value="1"/>	₹15.70
		Bell Pepper Far far away, behind the word mountains, far from the countries	₹15.70	<input type="text" value="1"/>	₹15.70
		Bell Pepper Far far away, behind the word mountains, far from the countries	₹15.70	<input type="text" value="1"/>	₹15.70

Fig:5.5 Wish cart of website

A vegetable is the edible portion of a plant , Vegetable are usually grouped according to the portion of the plant that is eaten such as leaves, stem, roots, tubers, bulbs, flowers.

5.6 Single Product

Here you can see the single product of the website. you can see the full specification food product, such as price, quantity, condition, etc.



Fig:5.6 List of vegetable

A vegetable is the edible portion of a plant ,Vegetable are usually grouped according to the portion It's a healthy food for ever people.

5.7 Cart

People can add or take stuff from their shopping carts and confirm their orders in this project.

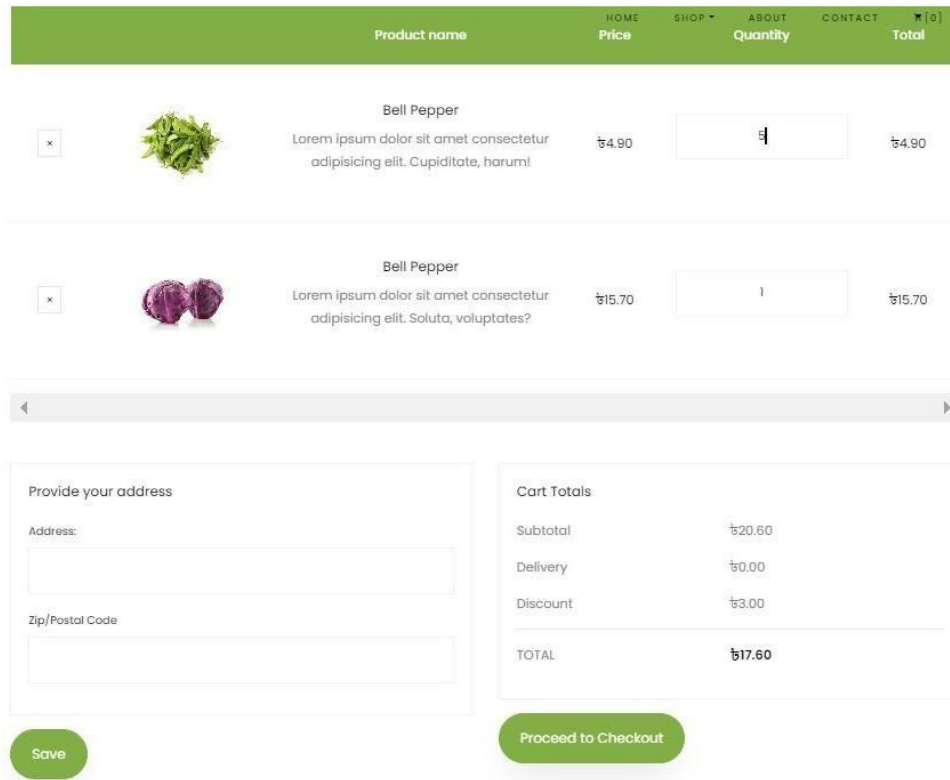


Fig:5.7 Product Checkout

A vegetable is the edible portion of a plant ,Vegetable are usually grouped according to the portion of the plant that is eaten such as leaves, stem, roots, tubers, bulbs, flowers

5.8 Checkout

The final step in the online purchasing procedure is using the checkout. By creating an account here and selecting "make an order," products can be purchased.

Billing Details

First Name Last Name

State / Country

Street Address

Town / City Postcode / ZIP *

Phone Email Address

Create an Account? Ship to different address

Cart Total

Subtotal	₺20.60
Delivery	₺0.00
Discount	₺3.00
TOTAL	₺17.60

Payment Method

Direct Bank Transfer

Check Payment


Paypal

I have read and accept the terms and conditions

Fig:5.8 Place an Order

5.9 Registration

Here, the merchant and the client should each register separately. They must input their name, email, phone number, address, ID card or passport number, photo, and password in order to register as a merchant or a consumer. They can visit the website as a user or customer after registering and may see and buy ponies for sale.



Register as Customer

Name

Email

Phone

Address

NID Number

Nationality

Passport Number

Photo


Password

Confirm Password

[Already registered?](#)

Register as Seller

Fig 5.9 (registration as a buyer)



Register as Seller

Name

Email

Phone

Address

NID Number

Nationality

Passport Number

Photo

Password


Confirm Password

[Already registered?](#)

Fig 5.10 (registration as a seller)

5.10 Log in

After vendors and buyers register, you must log in to access all other websites as well. By enrolling on the website, sellers may showcase and offer fresh food goods. Products can be ordered by customers based on their preferences.



The image shows a customer login interface. On the left is a circular icon with a blue-to-purple gradient, containing a white outline of a person's head and shoulders. Below the icon is the text "Customer login". To the right is a login form with two input fields: "Email" and "Password". Below the "Password" field is a checkbox labeled "Remember me". There are two links: "Forgot your password?" and "Want to login as Seller?". There are two buttons: "LOG IN" and "CLICK HERE".

Fig:5.11 (buyer login page)



The image shows a seller login interface. On the left is a circular image of a woman in a pink headscarf and red patterned top, holding green cucumbers in a field. Below the image is the text "Seller login". To the right is a login form with two input fields: "Email" and "Password". Below the "Password" field is a checkbox labeled "Remember me". There are two links: "Forgot your password?" and "Want to login as Seller?". There are two buttons: "LOG IN" and "CLICK HERE".

Fig:5.12 (seller login page)

5.11 Forget Password

If a buyer or seller unintentionally forgets their password, they can retrieve it by clicking the Forgot Password link and entering their registration email or phone number.

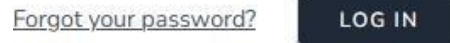


Fig: 5.13 (Password/Login)

5.12 Payment method

Various methods of payment are available to customers when they buy products. They can pay using a direct bank account, PayPal, or another method.

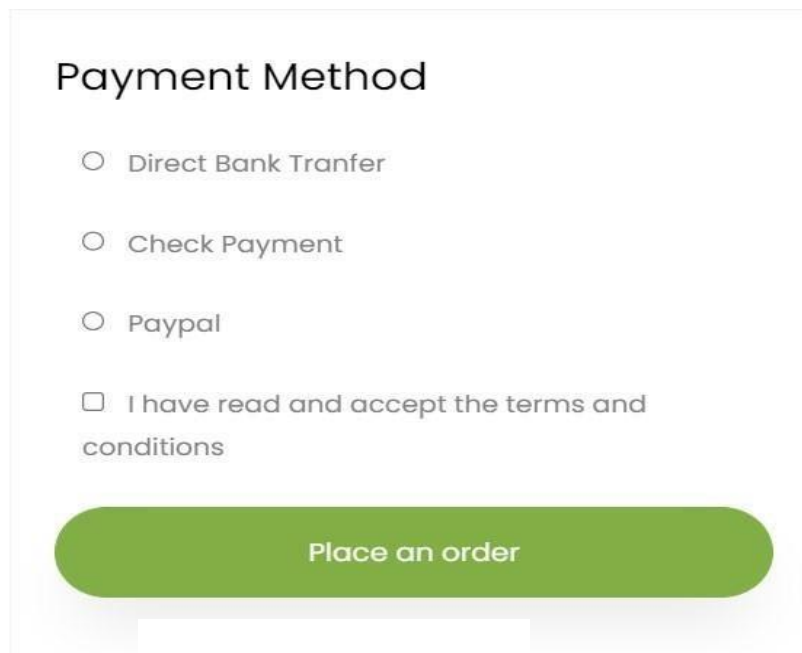
A screenshot of a "Payment Method" form. The title "Payment Method" is at the top. Below it are three radio button options: "Direct Bank Transfer", "Check Payment", and "Paypal". Below these is a checkbox option: "I have read and accept the terms and conditions". At the bottom of the form is a large, rounded green button with the text "Place an order" in white.

Fig: 5.14 (Payment System)

5.13 Contact us

The administrators' physical address, telephone number, email address, and website URL are shown on this page, along with a link to get in touch with them. Through this, you may speak with the administrator immediately about any issue. If you'd like, you can use this page to contact them with a brief message.

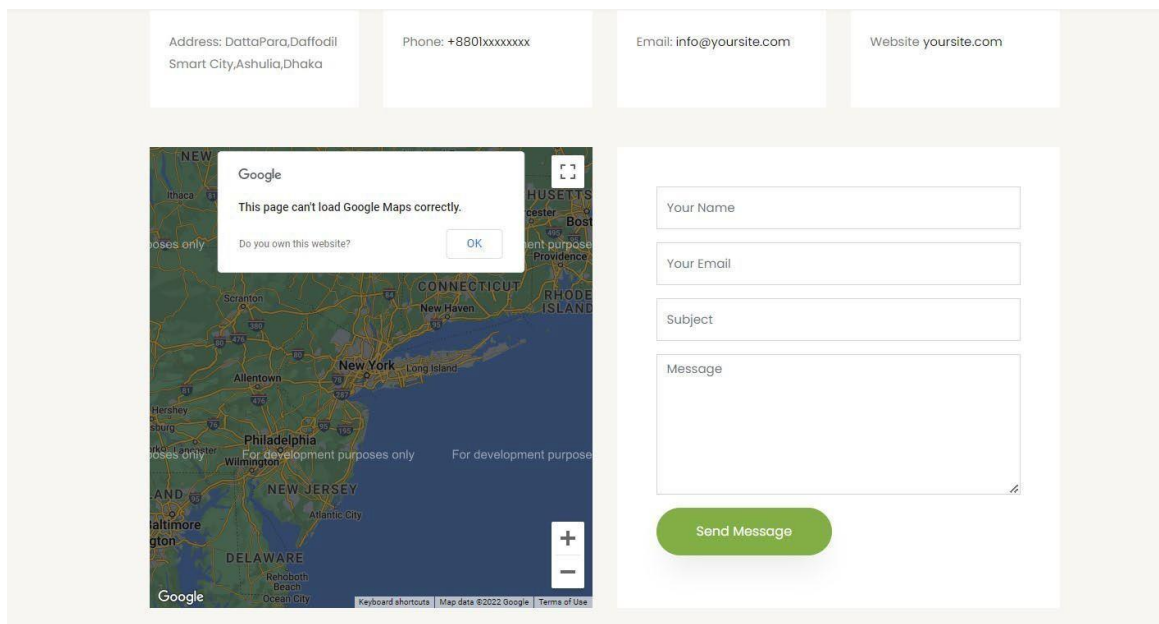


Fig 5.13 (contact page)

5.14 Testing Implementation

The purpose of this test is to evaluate how effective our system satisfies the specified criterion. We worked hard to keep this system safe. The test must be passed by or every piece of data a user inputs into our system.

Test Results and Reports

Table 5.1 (Results and Reports List)

S.L No	Test result	Expected Result	Result
1	Registration	When the anonymous user (buyer and seller) registers, the information will be recorded in the MySQL database.	Successful
2	Log-In	Sellers and buyers can access the website by entering their email and password.	Successful
3	Forget-Password	After enrolling, if a user (seller or buyer) forgets his password, he can reset it by choosing "forget password" and entering his email address.	Successful
4	purchases any food product	After logging in with his password, the user can purchase any food products.	Successful
5	Message send	can send the admin a message to the buyer and seller. Moreover, the buyer can text the seller.	Successful
6	add to cart	adding an item to your shopping cart.	Successful
7	Remove item	remove any product from cart	Successful
8	Log Out	it will be used to leave the website page	Successful

CHAPTER 6

Impact on Society, Environment, and Sustainability

6.1 Impact on Society

Because of the reductions and appealing pricing offered by internet offerings. This is advantageous for buyers. The major benefit of purchasing on the "hat-Bazar" online is that one can quickly learn about the features of the item they want to purchase and compare quality and features with those of competing brands that are on the market as well as user reviews. Additionally, clients can purchase the desired things and gain from this.

6.2 Impact on the Environment

Online food shopping has an effect on the environment as well. Customers will utilize gasoline- or diesel-powered automobiles when they go shopping outside. We are all aware that using oil or gasoline pollutes the environment. Therefore, there is no potential for environmental damage while purchasing online.

There is also no waste of separate space because the items are shown here via the internet. Additionally, this will benefit the environment.

6.3 Ethical Aspect

Understanding what is good and wrong is only one aspect of ethics. It has to do with the principles we uphold and follow. Online buying involves a lot of ethical considerations. And you can be sure to provide a positive client experience when you stick to your values and traditions. You can win your consumers' trust and loyalty by providing great customer service.

Ethical Concerns in eCommerce You Should Know About

The first one we'll be addressing for this is:

1. Online theft
2. Exposure-prone Data Lakes
3. Web monitoring
4. Online trespassing
5. Web Copycatting
6. Spamming emails
7. Products that are fake
8. Dependable Customer Support

6.4 Sustainability Plan

If everything could be done from home, who wouldn't want it? Working people are kept very occupied by global modernity. The inability to visit the market is therefore apparent. As a result, people purchase packaged, frequently unhealthy food from outside sources. They thus experience a variety of illnesses.

But they will readily embrace this service if the market can be conducted from home. because the user may get fresh food online through this website at a very affordable cost. In addition, there is a simple method for customers to get in touch with the website administrator if they have any issues.

Additionally, each product may be evaluated here, and user reviews can be read as well. Consequently, customers may check the product's maker for themselves.

CHAPTER 7

Conclusion and Future Scope

7.1 Discussion and Conclusion

We will increase the dependability and efficiency of our website. Fresh food is hard to come by these days. Utilizing it is crucial as the application develops. There will always be room for improvement because this was considered throughout production. The system's increased usability will make it easier for users to make purchases and express their opinions about the goods and procedures. I'll make a new employment for the deliverylad that this online project recruits. In this arrangement, fewer individuals will find employment. Consequently, it will solve the unemployment issue. Additionally, by selling their goods directly through this platform, marginal product vendors may increase their profit.

7.2 Scope for Further Development

Future iterations of this project will be improved. We have the following plans for the future.

Future will make efforts to advance it. We'll expand the payment gateway's possibilities. Additionally, we'll incorporate artificial intelligence so that users can gain more advantages from using this website.

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