DESIGN AND DEVELOPMENT OF WEB BASED HOME FOOD DELIVERY SERVICES

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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DHAKA, BANGLADESH

SEPTEMBER 2022

APPROVAL

This Project titled "**Design And Development Of Web Based Home Food Delivery Services**", submitted by Md. Mahmudur Rahman Rifat, ID No: 183-15-2296, Shakil Ahmmed, ID No: 183-15-2311 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 14th September 2022.

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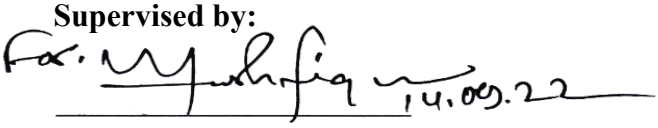

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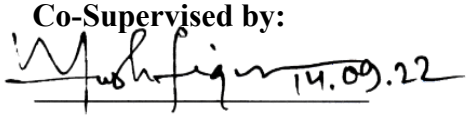

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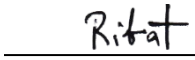

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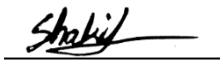

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ACKNOWLEDGEMENT

First, we express our heartiest thanks and gratefulness to almighty Allah for His divine blessing makes us possible to complete the final year project/internship successfully.

We really grateful and wish our profound our indebtedness to **Md. Mahfujur Rahman, Lecturer (Sr. Scale)**, Department of CSE Daffodil International University, Dhaka. Deep Knowledge & keen interest of our supervisor in the field of "Web application" to carry out this project. His endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior drafts and correcting them at all stage have made it possible to complete this project.

We would like to express our heartiest gratitude to Dr. Touhid, Professor, and Head**,** Department of CSE, for his kind help to finish our project and also to other faculty member and the staff of CSE department of Daffodil International University

We would like to thank our entire course mate in Daffodil International University, who took part in this discuss while completing the course work.

Finally, we must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

The main goal of our project is to create a new platform for all users by providing them with home food services during an epidemic. Through which we can take action by providing home food services during an epidemic. There will be a profile of the admin in the website application. The profile admin will keep a profile of traditional homemade food and other special home-made items. The consumer user specifies his or her preferred cooking or food, Let the profile admin know and the customer will give the user his address so that the profile admin can deliver the cooking or food to the specified address. In this way, users can take action in the website application. as a result, the customer will be able to save time, save money as well as enjoy the taste of home-cooked food, traditional homemade food and a variety of city food by which the customer with the help of phone or laptop within his reach, the customer is his choice, we hope you can enjoy the taste of any food.

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CHAPTER 1
INTRODUCTION

1.1 Introduction

In view of the growing growth and use of the web, we have decided to create the "Restaurant Management System Application" web app. And our application will be a home food service system. There will be a system to supply traditional home-made food and other special home-made items as well as a variety of city food. Our HFS (Home Food Service) is a systematic approach to controlling food safety hazards within a food business in order to ensure that food is safe to eat.

Font-End: Html, CSS, JavaScript, Bootstrap.

Back-End: Laravel.

1.2 Motivation

Now everyday street food and restaurant food is becoming more and more unhealthy. In addition to this, the growing growth and quality of use of the web are constantly increasing. People have become addicted to unhealthy street food and restaurant food as they move into modern life. As a result, they are deprived of enjoying the traditional food of rural Bengal and the taste of the traditional food of the city. Our app offers a variety of traditional homemade food and other special home-made items as well as a variety of items during an epidemic. A small attempt to bring the food of the city to the people. The quality and taste of food in modern human life are decreasing day by day. We have taken the initiative to do this work considering everything.

1.3 Objectives

- User to use this web application for their save time, money and fast service.
- With the help of a phone laptop at hand, customers can easily order the food of their choice, sitting at home.
- Users' customers will be able to give us opinions and feedback. Users so that there is no problem in finding home food.

- This web application easy to find all famous traditional food and home food.
- In order to make it easier for users to get services for Covid-19 atpresent.

1.4 Expected Outcome

- Can order traditional homemade food and food from different cities.
- Customers can pay through cash on delivery or online banking.
- The client will get home delivery safely.
- It's very helpful for our 'HFS' customers.

1.5 Summary

We will always strive to provide the best service to our customers so that they can easily buy and sell food through online services. In addition to this, we expect to create a platform for better service to both our types of customers. Because the idea of such a platform saves the time and money of the people of our country. And our main goal is to give them good service. People today are not getting good service with money and time. For this, we have taken this online service initiative to reduce their suffering. We hope such services will help them a lot.

CHAPTER 2
BACKGROUND

2.1 Developing the Website

Website for managing your home and food. This chapter outlines relevant publications, comparative research, the extent of the issue, and the difficulties. This section will cover why we created more websites despite the industry having a number of comparable wedding websites already. Through our market research, we were able to identify all of the benefits and justifications for each app. On having done this, we can develop a good relation between the sellers and the clients. Also, the persons can sell and buy easily his products using our web site and can save time and money.

2.2 Related Applications

Everywhere in the world, there are several websites. Particularly if we discuss our nation, there are several websites. Such as Food Panda, Most related Bikroy.com, Uber.
Their project isn't the same as ours. Because some concepts are related to our project and any user-friendly alternatives

2.2.1 Foodpanda.com

When he wants to buy eatables but does not want to go out, Foodpanda.com is the site that he must visit. The available products of Foodpanda.com consist of fruits, vegetables, meat, fish, rice, drinks all are the restaurants related foods etc. The place also offers free home delivery if he buys products for a certain value. Also, Foodpanda.com offers regularly promotional offers of selling with interesting discounts.

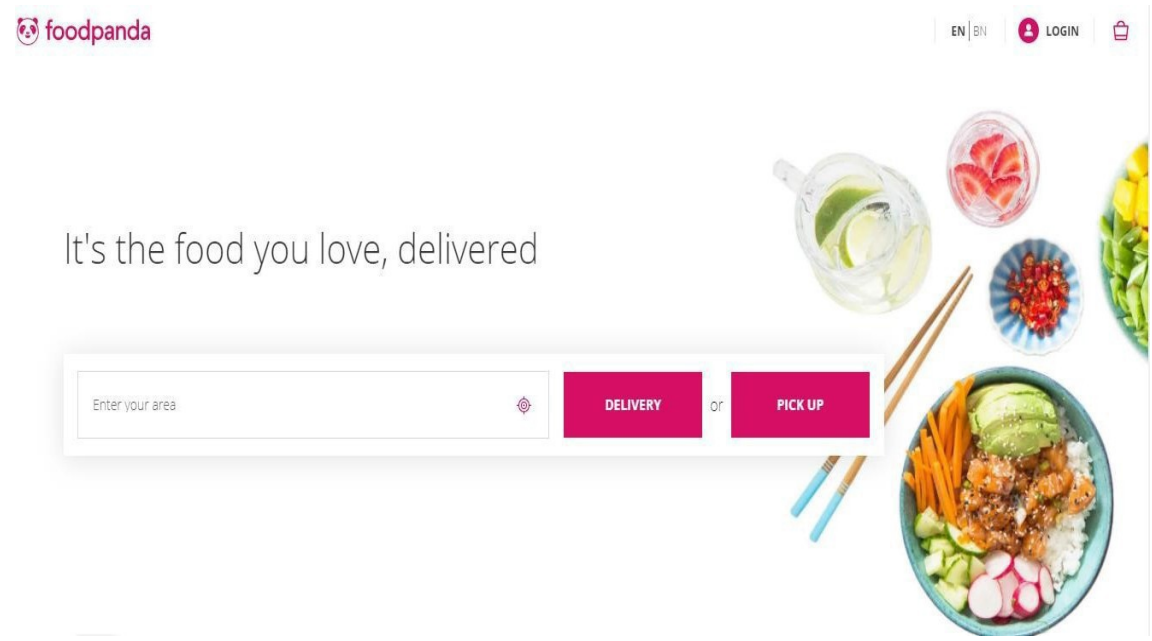

Figure 2.1: Foodpanda.com

Foodpanda.com essentially provides services for meal delivery from a variety of nearby eateries. There are several eateries around that link the area. With only a few clicks, he may use Foodpanda.com to request his favorite restaurant's article. When he receives the meal, he can settle his bills by using the service of payment against refund.

2.2.2 Bikroy.com

Bikroy.com is a marketplace where nearly anything may be bought or sold.

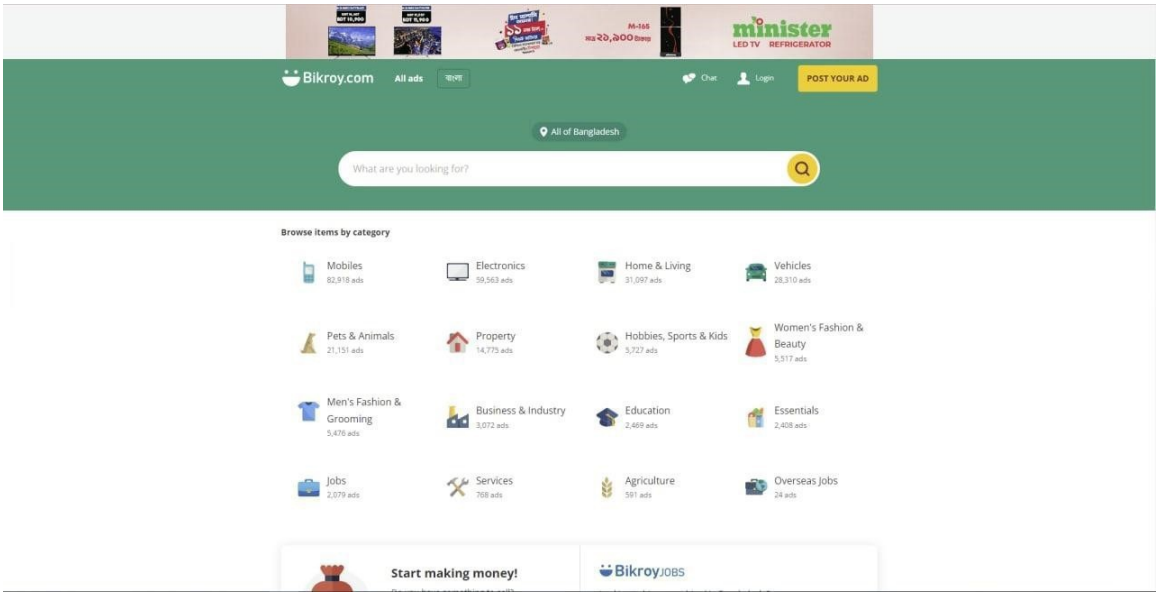

Figure 2.2: Homepage of bikroy.com

Use the location option to locate offers in your area, or browse the classifieds to have products delivered to you with complete buyer protection.

2.3 Registration/Login

In this area, users may register and log in. Three different user types will be present on this website: a vendor, a consumer, and an administrator. Here, vendors may register as vendors and acquire profiles with space for their items and information about those things. The site's owner will have total control. Only Admin has access to order cancellation, order confirmation, communications, seller lists, and payment checks. Only after logging in or registering may customers add items to their cart and move on to the order form. After logging in, customers may evaluate the items. One may just access the website as a guest and browse the merchandise if they don't have anaccount.

2.4 Dashboard

After entering in as the admin, the user will be able to see the admin panel dashboard.
The admin will have certain tools at their disposal on the dashboard. As follows:

- Customers
- Food item
- Vendor
- Orders
- Subscriber list
- Messages
- Send recommendation email
- Accounts
- Logout

2.5 Search

Customers may use this to search for their chosen products, and if any matching items are found, they will be displayed to them. Customers will be informed that no results were discovered for their specific keyword search if there are no matches.

2.6 Contact us

One-way messaging is used in this system. By utilizing this, our customer, vendor, or visitor may quickly send us any message. A person can utilize it if they wish to tell us of anything, learn something from us, or get in touch with us. Only the admin will get the messages.

2.7 Comparative Studies

Before developing this website, we spoke with famous restaurant managers from the industry as well as customers to better understand their challenges. We discovered that the supplemental additives that are used to improve the flavor of the majority of dishes are a pretty widespread issue. Let's say someone doesn't like cheese in their burgers, in which case they can improve their dining experience if they mention while ordering that they don't want cheese in their burgers. Our foundation for creating this website was comparable. Customers will be able to speak with the chief personally during this time.

2.8 Scopes of problem

We also have certain downsides to a system, just like it has benefits. Server issue, which is offline. Additional secondary data could require more time. It may not function without your energy and internet access depending on the power. There are also rural remote areas where they do not have adequate electricity and internet technology, which disrupts their services.

2.9 Challenges

Many internet websites are under lockdown in this critical moment. So, this is one of our biggest obstacles to establishing a rapport with others. Obtaining people's confidence as a new website is the hardest challenge. To make people aware of a system feature. To incorporate a product that consumers desire yet is necessary. To safeguard each structure. We had to cope with a challenging database as well as multiple user access concerns at the same time. But with Allah's help, we were able to complete the task

CHAPTER 3
REQUIREMENT ANALYSIS AND SYSTEM SPECIFICATION

3.1 Requirement Specification

The analysis of requisites is an important process for the development of any project. The details of the analysis of requisites must register for every step and the result of the analysis has to be able to be calculated by a positive test. The requisites can be of many types, as structural, functional and not functional. To construct a better project requisite are needed. The project must expire with the minimal requisites so much of hardware as ofsoftware.

3.2 Requirement planning & management

Our primary need for this application was project planning. That is what will happen. Where should what go? We need to be knowledgeable with web development jargon like HTML, CSS, and JavaScript. These are commonly referred to as the foundational elements of the Web. These three tools are the most often used in web development. When it comes to online marketing structures, two social affairs coordinates with the process, and certain customers are required to place orders. In the alternate arrangement, a programmer might process the system.

3.3 Requirement collection & analysis

- Admin login
- Dashboard Location
- Register user
- Manage pages
- Update contact information
- User sing up
- User login
- Profile setting
- Update password
- Sign out

3.4 Functional Requirements

- Page used to log a new user in.
- The meeting start page, which allows registered users to start meetings on their accounts.
- A feature that automatically adds chosen items to a cart.
- Controlling user authentication.
- The price, quantity, and details of the products will be displayed.
- A feature that allows users to provide product reviews and assessments.
- Quick, certain, and responsive.
- Improved control of safety for both buyers and vendors.
- Easy and secure payment.

3.5 Requirements

The required hardware and software needed to run this application must be taken into account first. There are a few hardware and software requirements for this program to operate efficiently.

- Visual Studio Code.
- JavaScript, PHP for language.
- Html, CSS and Bootstrap for as styling.
- XAMPP for database.

CHAPTER 4

DESIGN ANALYSIS & SPACIFICATION

We can estimate the structure and modules of a project for the fulfillment of the user's requirements using the system's design.

4.1 Design Specification

Any kind of website must have two components that are designed. The first is front-end design, whereas the second is back-end design. Different teams of web developers work on the front and back ends of a website. Front end development is the term for programming that focuses on the visually appealing, user-interactive components of a website or app (the customer side). In contrast, back-end development focuses on the server/admin side of a website, which is the part that visitors can't see.

4.2 Customer Specification

- Order food according to the menu: After logging in, customers can select items from the menu and perhaps modify their orders.
- Allowing customers to place orders in their carts and cancel them will allowthem to do both.
- Allowing the consumer to create a personal account by supplying the necessary information, your client may create an account.
- Permit the consumer to change their password. Customers can update their current passwords using this option.
- Edit menu list: An administrator may create a menu list with prices and tags, as well as change the menu items' prices and tags and delete the menu altogether.
- Cancel the order: An administrator may cancel an order if they decide not to accept it.

4.3 Method of Development

The development process is essentially a maintenance strategy for a project, where achieving goals depends mostly on motivation. The projects are consistently supported in order for them to finish with all the requirements for a certain target. We chose the Laravel approach, which is the greatest choice for us, to create our application. The following is a description of our project's development phases:

- Organization and design
- Execution and Construction
- Control of the system

4.4 Used Tools and Languages

For the development of our project, we have used some tools and languages which are listed below:

Tools

- Local Server: XAMP
- Database Server: MySQL
- IDE: Visual Studio code

Languages

- Laravel
- HTML
- CSS
- jQuery

4.5 Use – Case diagram

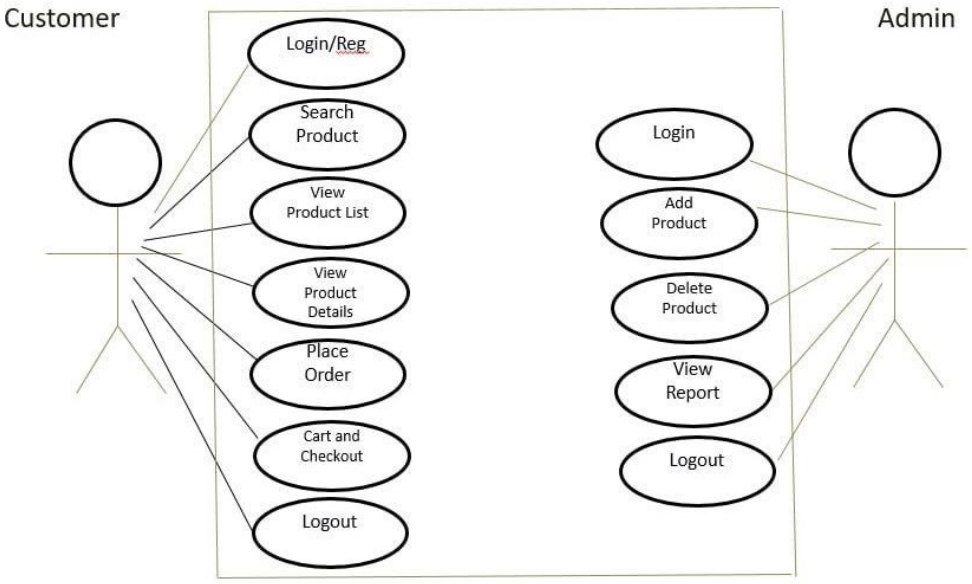

Figure 4.5: Use – Case diagram

This order management system asks the consumer questions, gives restaurant employees information, and notifies personnel when orders are available for pick-up or delivery. These programs can make comments depending around hints & gather online takeaway orders. Additionally, you may alter them.

4.6 Class diagram

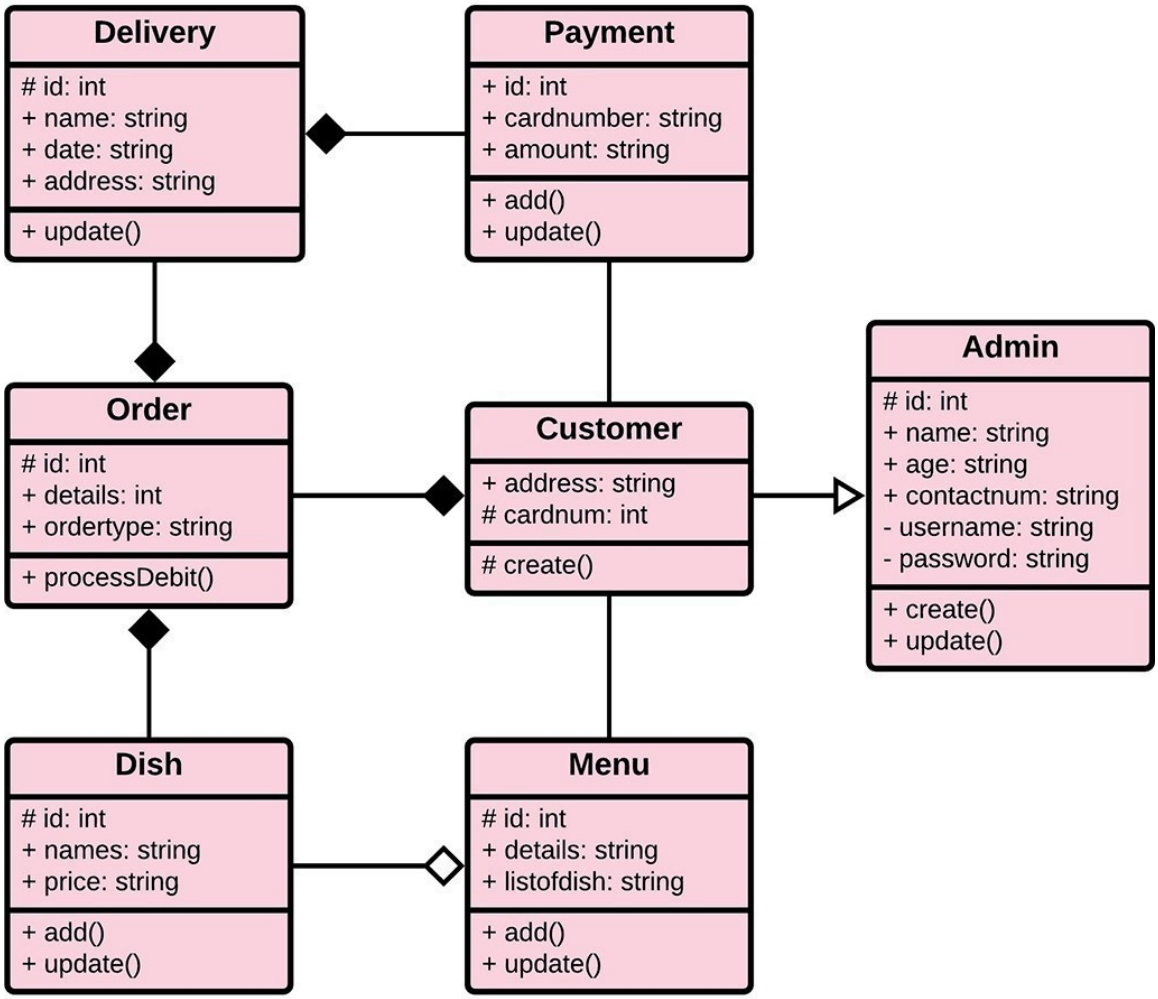

Figure 4.6: Class diagram

For an online service, we have designed a diagram to highlight the links between classes and other project categories. It includes information about class relationships, methods, and attributes.

4.7 Data flow diagram

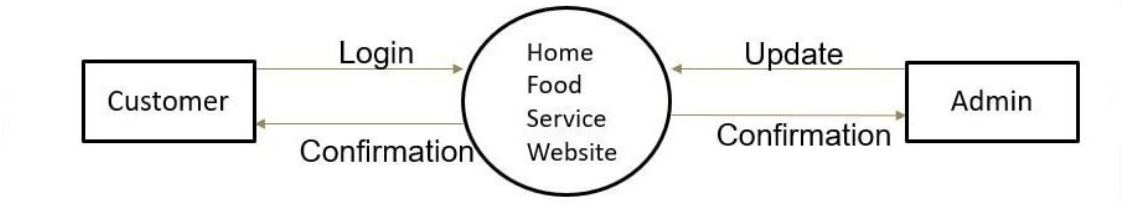

Figure 4.7: Data flow diagram

It uses preset symbols like rectangles, circles, and arrows as well as short text labels to indicate the data inputs, outputs, storage places, and pathways between each destination.

4.8 Activity diagram

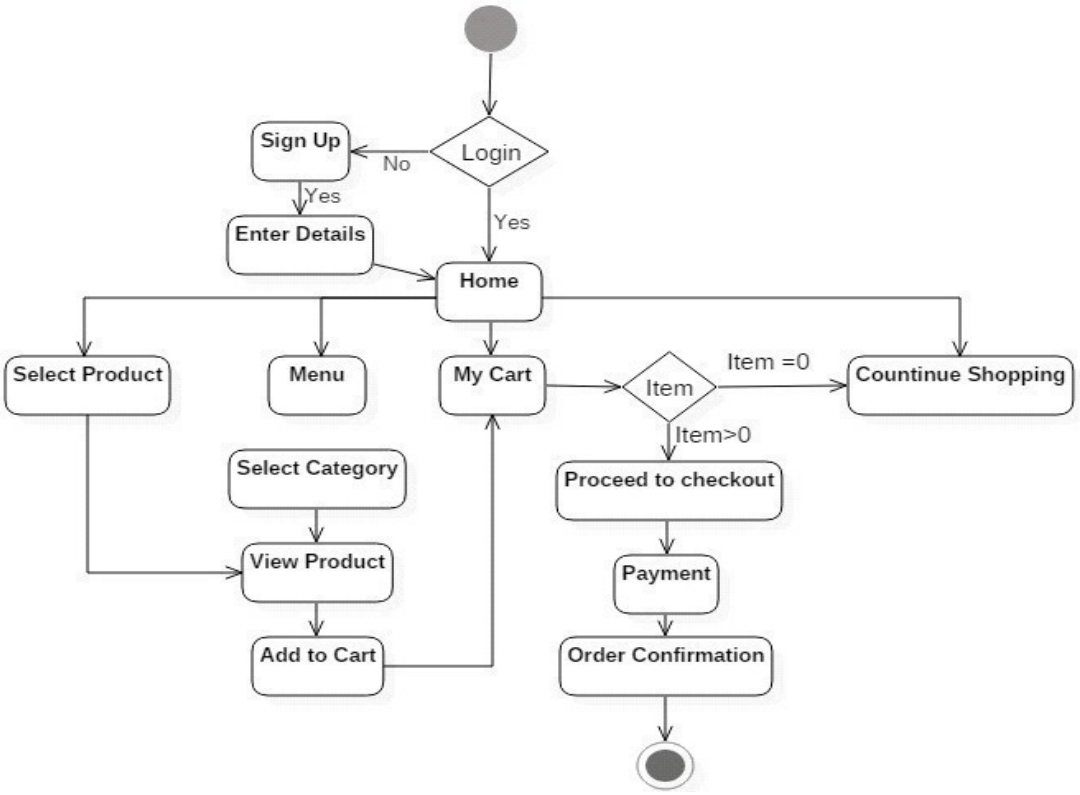

Figure 4.8: Activity diagram

This is the Login Activity Diagram for the Food Ordering System, which shows the many steps involved in logging in. Admins can use this diagram to enter their username and password to log in. The user can manage all operations related to food items, orders, deliveries, payments, and categories after logging in. Users can only view the secure pages after logging in, and such pages include Delivery and Payment Category. A Food Ordering System's login page is depicted in the diagram below. The Payment, Food Item, Order, Delivery, and Category pages all interact with one another during the Activity, and users will not be able to visit this page without first authenticating their identity.

4.9 Block diagram

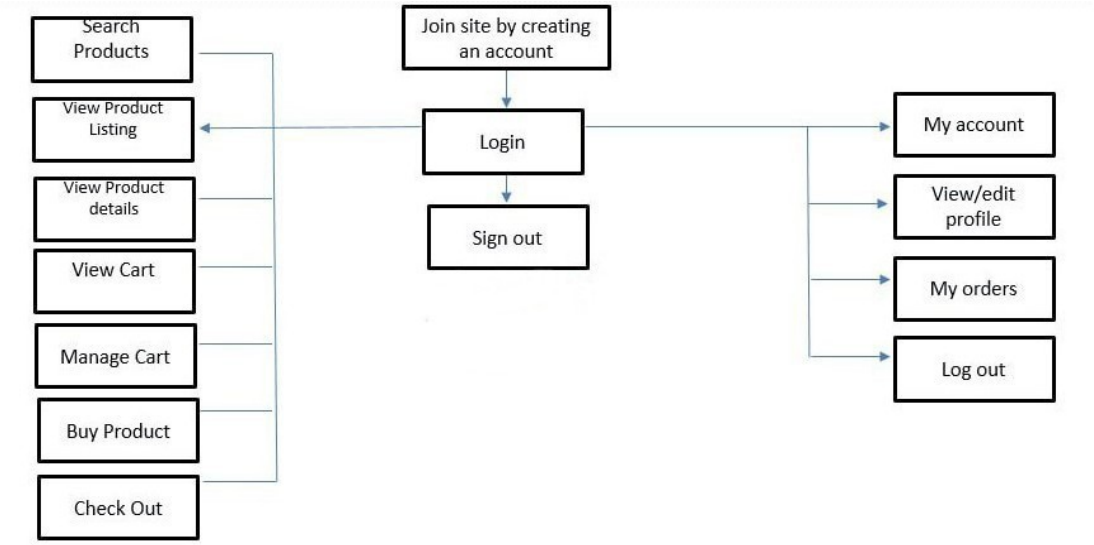

Figure 4.9: Block diagram

CHAPTER 5
IMPLEMENTATION

5.1 Frontend Design

Frontend design is the procedure for making up a user interface by writing the HTML, CSS and presentational JavaScript code.

5.1.1 Frontend Design for menu page

Homepage

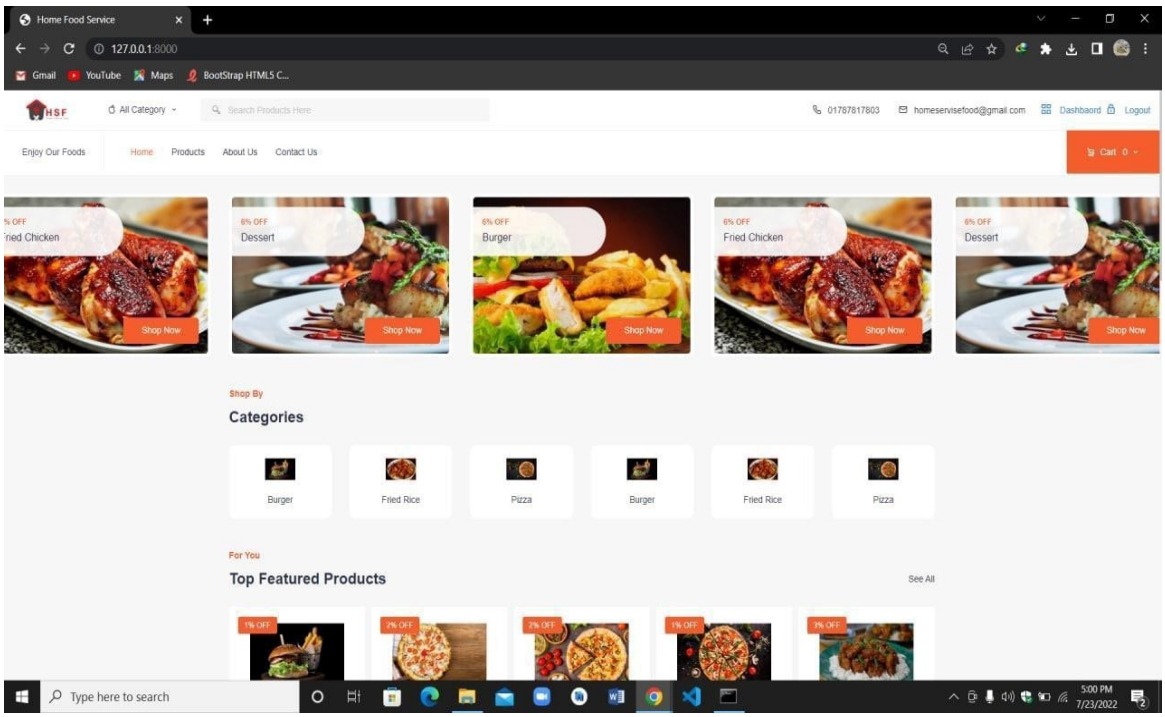

Figure 5.1.1.1: Homepage

The first page an online user sees after starting their browser is the home page of HFS, which could be displayed by Microsoft's Internet Explorer or Netscape's Navigator. The default setting for most browsers makes the homepage the homepage of the browser's creator.

About Us

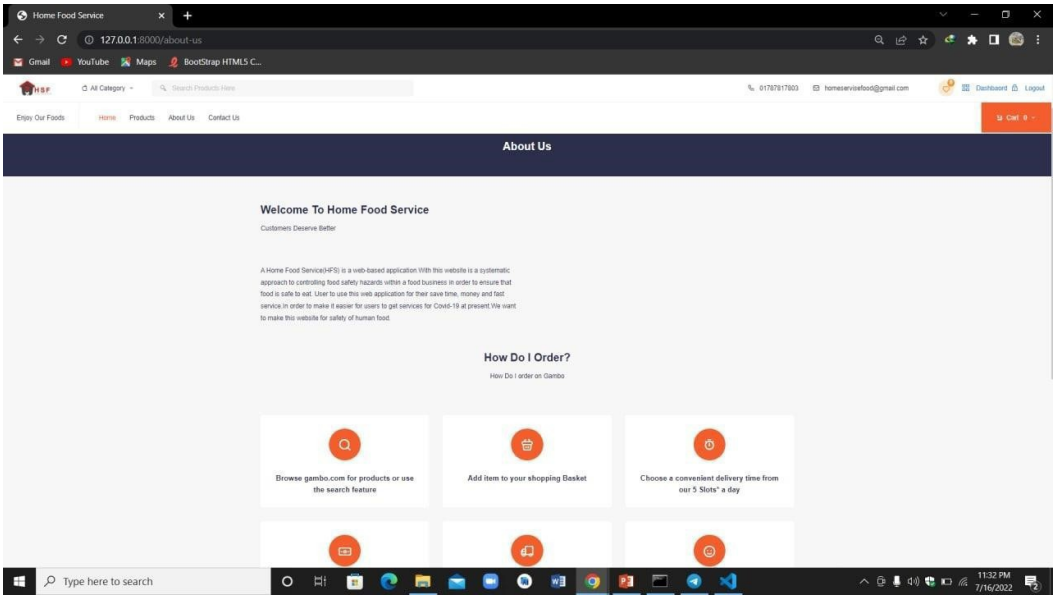

Figure 5.1.1.2: About us page

Our company's history and motivations for starting it. Our business model of how our items or manufactured explains or describes the rationale for our operations.

Contact Us

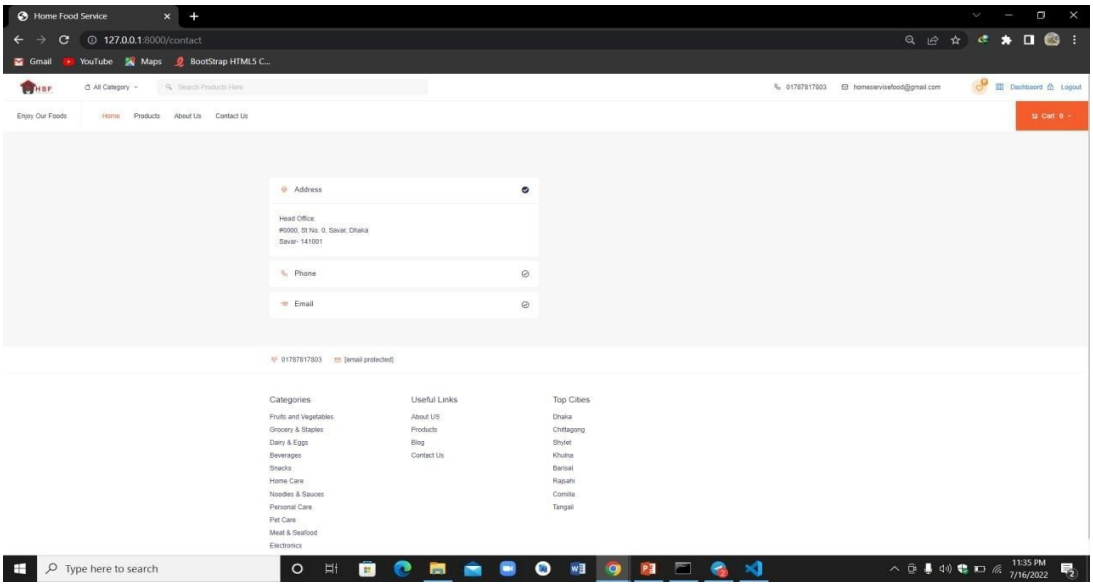

Figure 5.1.1.3: Contact us page

The contact page is located here. This page offers a method for website users to get in touch with the company. Contacting us is easy thanks to our phone number and email address.

Review Page

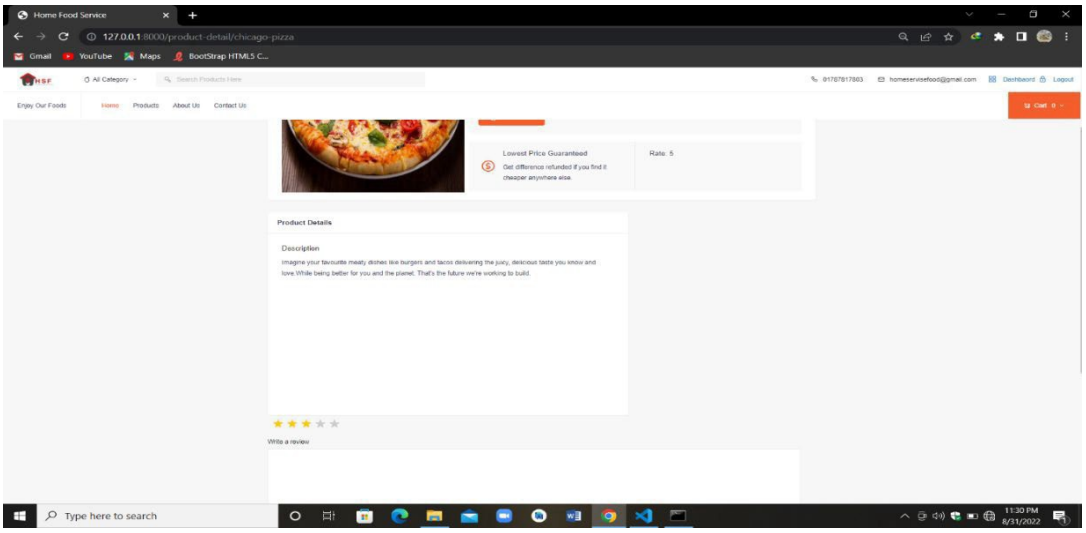

Figure 5.1.1.4: Review page

So that you can keep an eye on your restaurant's internet presence, we've selected the greatest and most relevant restaurant review websites. Visit the most significant restaurant review websites right now!

Order details

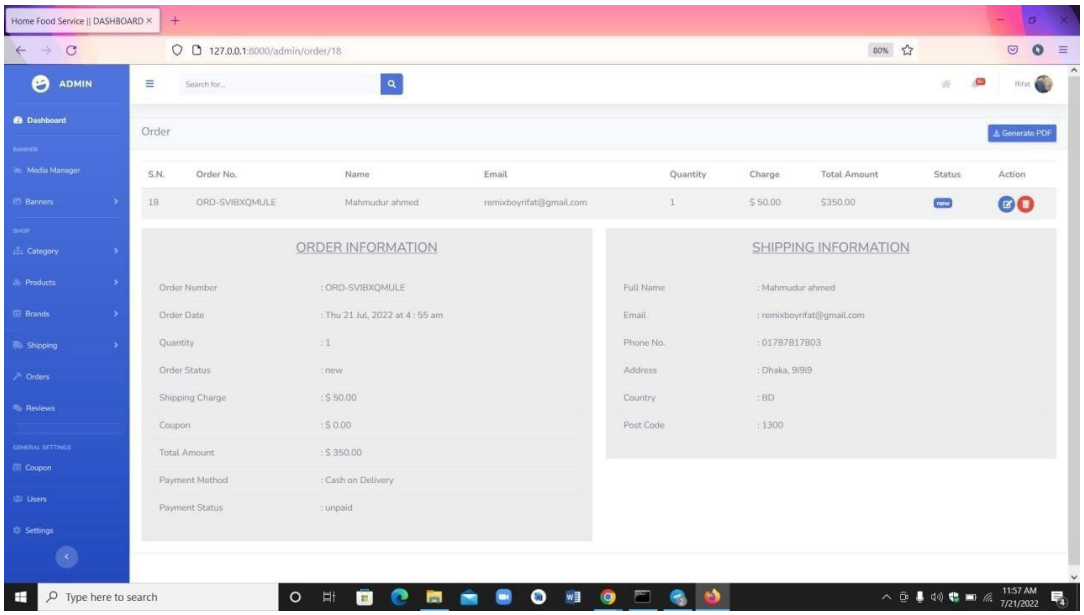

Figure 5.1.1.5: Order details

A menu-viewing website or mobile app, as well as an administrative interface that lets the restaurant accepts and process orders from consumers.

Order placed

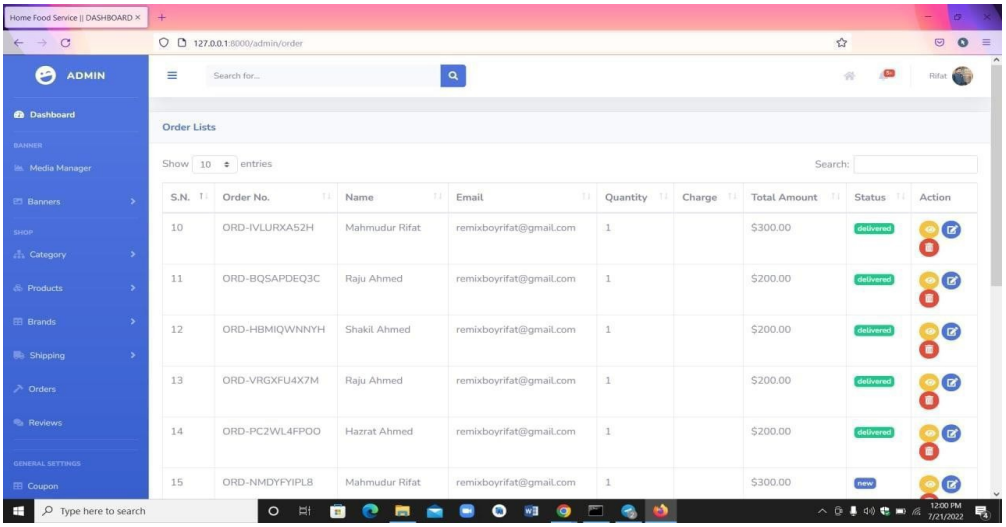

Figure 5.1.1.6: Order placed

Look into submitting an order action through the order processing service. You must include your customer ID, product ID, and payment information.

5.1.2 Frontend Design for Sellers

Category Management

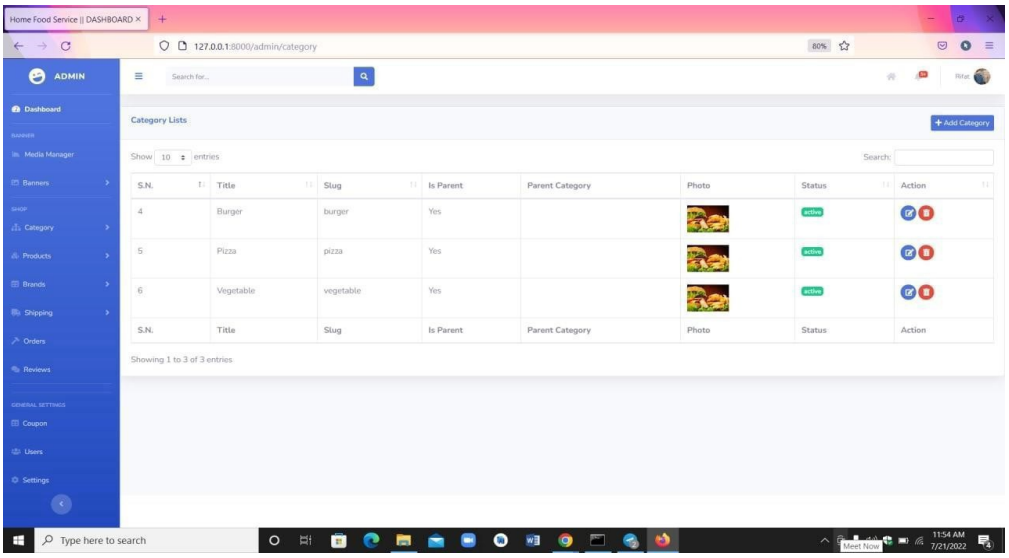

Figure 5.1.2.1: Category Management

It has stages and views that correspond to the department management workflow. Corporate-level data input is required for every situation.

Product Management

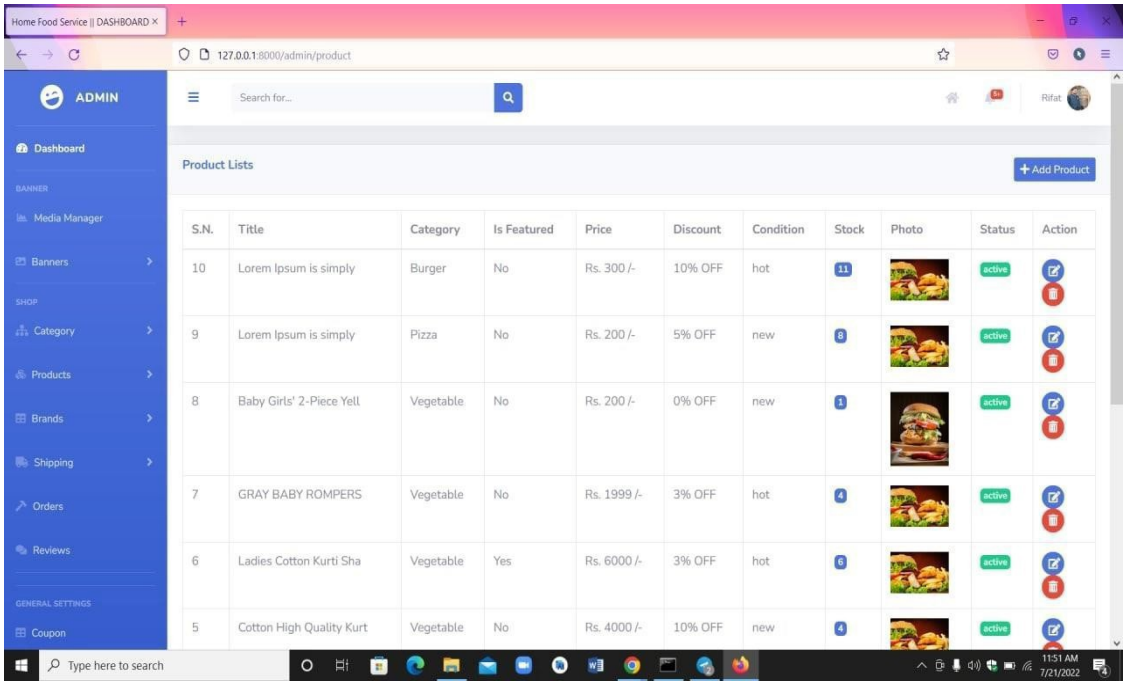

Figure 5.1.2.2: Product Management

We always have a plan in place. Here, more artworks are produced, including images of cuisine, sights, and even commercials.

Add Product

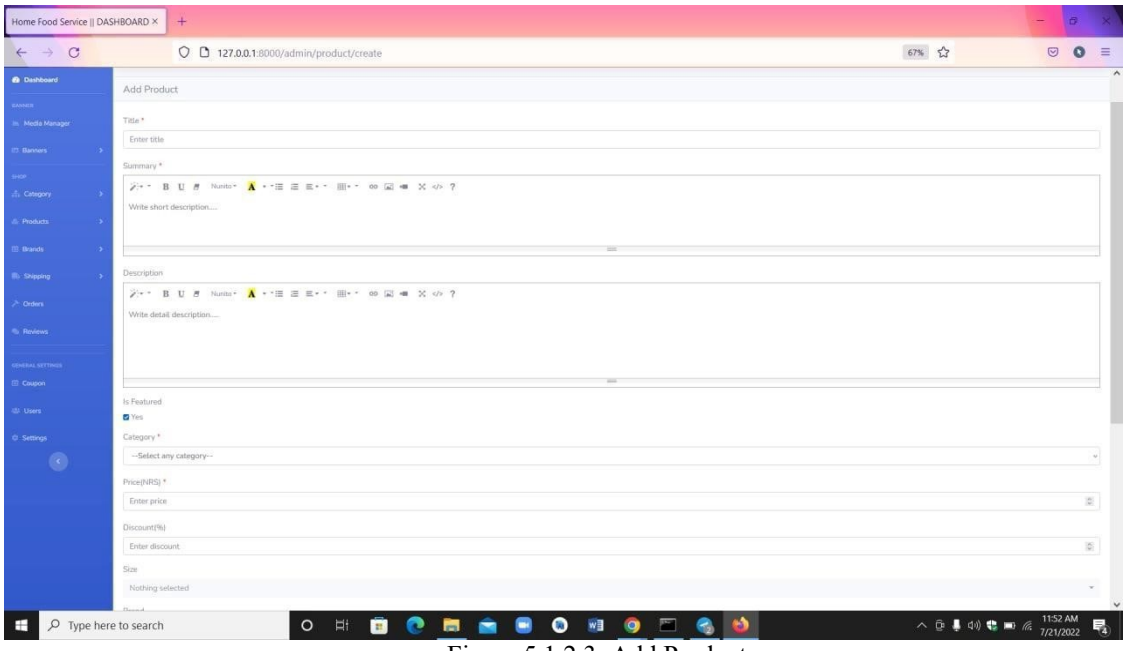

Figure 5.1.2.3: Add Product page

Order Management

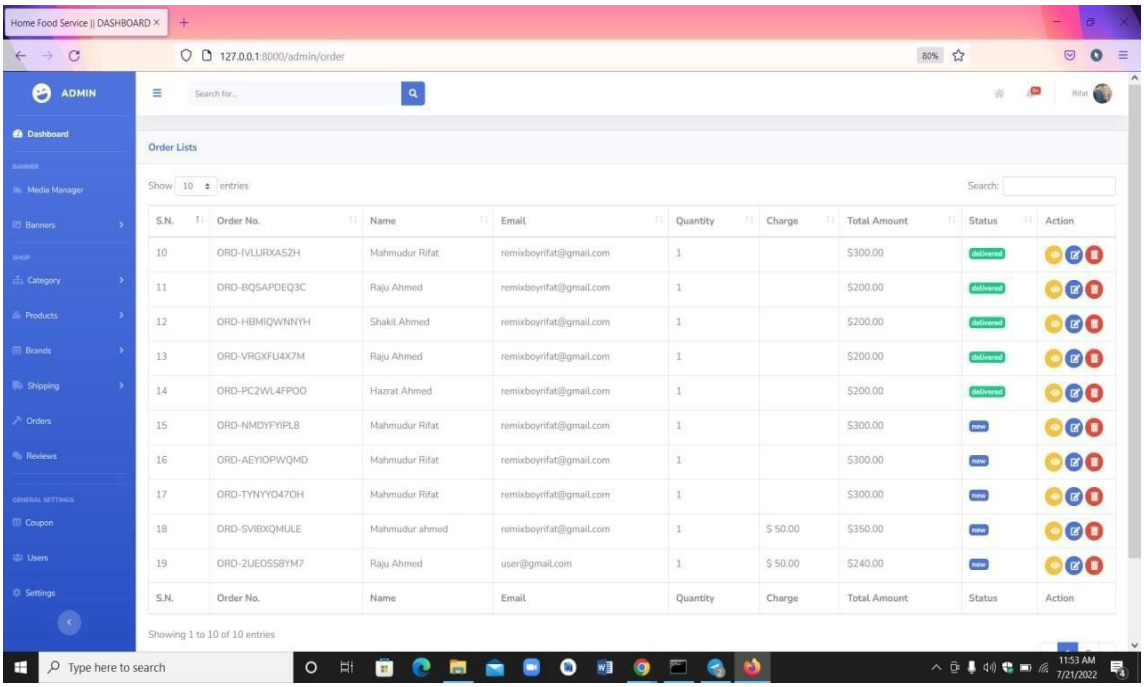

Figure 5.1.2.4: Order Management

5.1.3 Frontend Design for Admin Dashboard

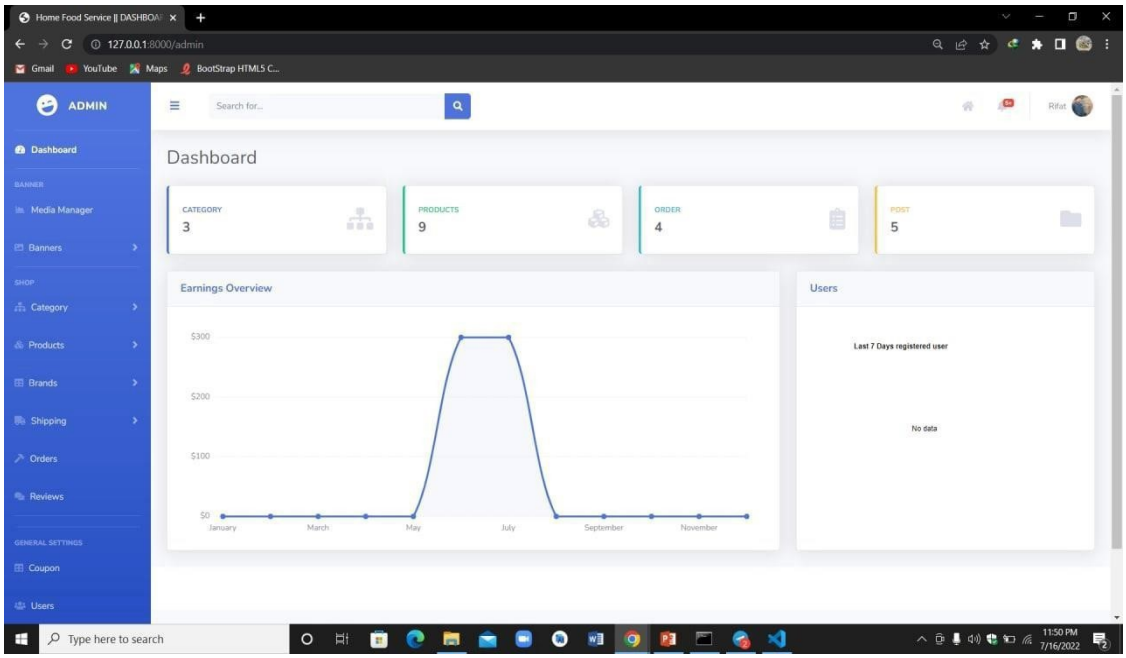

Figure 5.1.3.1: Admin Dashboard

5.2 Backend Design

Backend refers to the area of a website that visitors cannot view. Everything that takes place in a web browser prior to the page being displayed is considered the backend, and developing those components for the purpose of showing the page is referred to as backend design.

Admin login

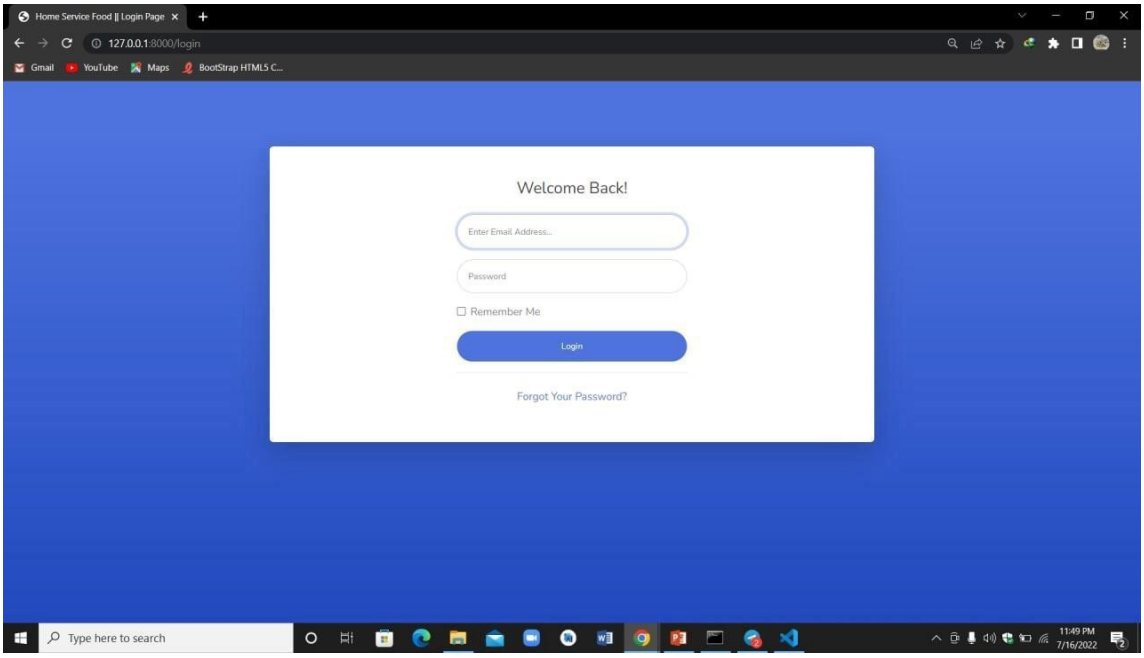

Figure 5.2.1: Admin login

We can personalize the admin login page for your website to your preferences thanks to the Admin Custom Login plugin.

Database

Structure | SQL | Search | Query | Export | Import | Operations | Privileges | Routines | Events

	Table	Action	Rows	Type	Collation	Size	Overhead
☐	banners	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_unicode_ci	32 KiB	-
☐	brands	Browse Structure Search Insert Empty Drop	5	InnoDB	utf8mb4_unicode_ci	32 KiB	-
☐	carts	Browse Structure Search Insert Empty Drop	14	InnoDB	utf8mb4_unicode_ci	64 KiB	-
☐	categories	Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_unicode_ci	64 KiB	-
☐	coupons	Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_unicode_ci	32 KiB	-
☐	failed_jobs	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	16 KiB	-
☐	messages	Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_unicode_ci	16 KiB	-
☐	migrations	Browse Structure Search Insert Empty Drop	20	InnoDB	utf8mb4_unicode_ci	16 KiB	-
☐	notifications	Browse Structure Search Insert Empty Drop	29	InnoDB	utf8mb4_unicode_ci	32 KiB	-
☐	orders	Browse Structure Search Insert Empty Drop	15	InnoDB	utf8mb4_unicode_ci	64 KiB	-
☐	password_resets	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_unicode_ci	32 KiB	-
☐	posts	Browse Structure Search Insert Empty Drop	5	InnoDB	utf8mb4_unicode_ci	128 KiB	-
☐	post_categories	Browse Structure Search Insert Empty Drop	5	InnoDB	utf8mb4_unicode_ci	32 KiB	-
☐	post_comments	Browse Structure Search Insert Empty Drop	7	InnoDB	utf8mb4_unicode_ci	48 KiB	-
☐	post_tags	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_unicode_ci	32 KiB	-
☐	products	Browse Structure Search Insert Empty Drop	9	InnoDB	utf8mb4_unicode_ci	128 KiB	-
☐	product_reviews	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_unicode_ci	48 KiB	-
☐	settings	Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_unicode_ci	16 KiB	-
☐	shippings	Browse Structure Search Insert Empty Drop	5	InnoDB	utf8mb4_unicode_ci	16 KiB	-
☐	users	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_unicode_ci	32 KiB	-
☐	wishlists	Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_unicode_ci	64 KiB	-

Console

Figure 5.2.2: Database

User Registration page

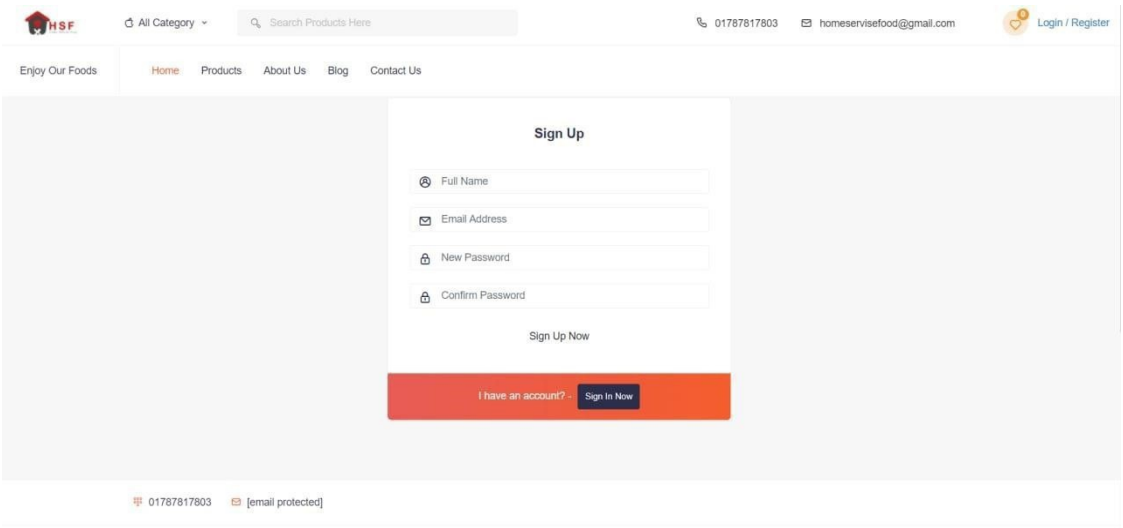

Figure 5.2.3: User Registration page

The type of data gathered depends on the website's purpose and the services it provides. Name, email address and password are often required fields on signup forms.

Login page

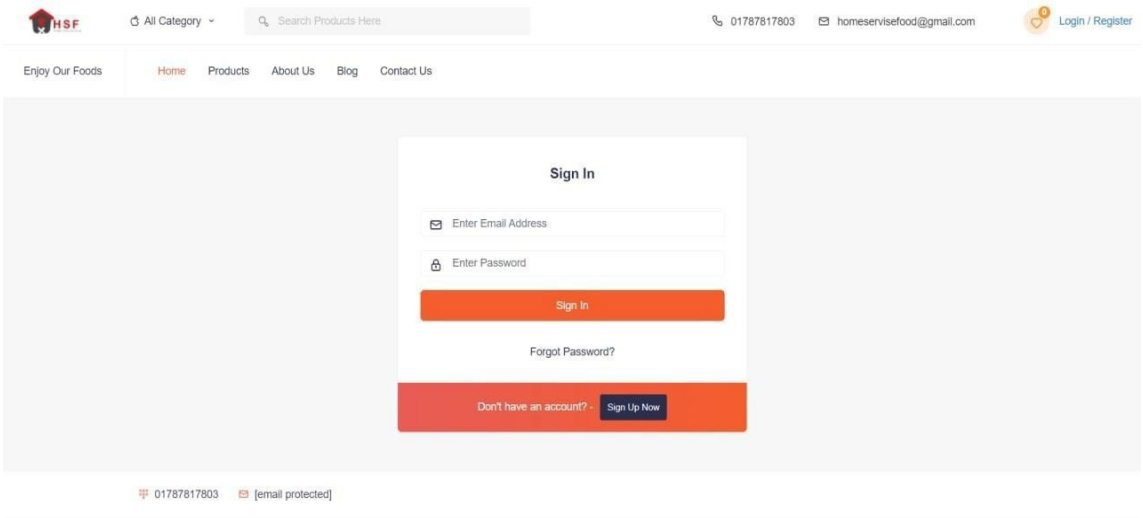

Figure 5.2.4: Login page

5.3 Implementation of Front-end design & backend design

To construct this sort of websites, we must first choose the programming language and technology to be used. The following languages and frames were used throughout our front-end and back-end work:

Front-end design

- **HTML:**

Web pages are made using HTML, a tag-based language. HTML is the most fundamental element of the Web (Hyper Text Markup Language). It explains the function and structuring of online content. Web pages are frequently specified using technologies other than HTML, such as CSS and JS, to describe their presentation and functionality (JavaScript).

- **CSS:**

CSS Design, layout, establishing color palettes, and developing backdrops are typically done with CSS. Although we used Bootstrap to develop our web application, we still needed to use custom CSS to change the appearance. CSS is an acronym for cascading style sheets. It is a language for writing style sheets that describe the organization and look of documents written in markup.

- **JavaScript:**

JavaScript is a scripting language designed specifically for interacting with web page components. ECMAScript, DOM, and BOM are the three primary components of JavaScript. JS is the main dimension. The framework is created using HTML and CSS, but nothing further is done with it. On our website, JS creates a reaction in the presence. When a button is pressed, scripting in JavaScript determines how media is handled, how password forms are authorized, and other Function.

- **Bootstrap:**

For building adaptable and mobile-friendly websites, Bootstrap is the most popular HTML, CSS, and JavaScript framework. It offers design templates based on HTML and CSS for typography, forms, buttons, tables, navigation, modals, photo carousels, and many other things. Bootstrap is used by computers when they are switched on. Bootstrap refers to the initial section of code that loads the system and works on the whole operating system. By doing this, the program is able to locate the operating system's kernel, load the file into memory, and start up. The HTML JavaScript library in question enhances the database. It is used in the design of the outlet, form, and color of the web application. This project uses it as the front-end design and foundation.

Back-end design

- **Laravel:**

Laravel, sophisticated capabilities and development tools speed up the creation of online applications, and Laravel performs better than competing web frameworks. With its clean and reusable code, Laravel additionally aids website developers in streamlining their development procedure. It's one of the few frameworks with the adaptability and plenty of features that make it the ideal foundation for building websites and online

5.4 Test

We have examined this application for faults throughout the testing phase. When there are no problems, the program is working properly, but when mistakes are discovered, a technique must be used to fix them.

5.5 List of Tests

- Testing of Functionality
- Testing of Usability
- Testing of Database
- Testing of Performance
- Testing of Security

Testing of Functionality

The process of confirming the links, forms, cookies, and connections of databases constitutes the functionality test.

The results of standard cross-checking included the following:

- If a required field is left blank, an error notice will display.
- For the user, it functions like a meeting. The test phase of the cookies' operation goes specified values will be double-checked.
- The database will not store duplicate user information.
- The term "cookie" refers to a little file that stores user information and saves the user from having to start meetings successfully.
- To make color schemes readable.

Testing of Usability

Usability tests are performed to check for grammatical and navigational issues on websites. It is also used to check the pass's usability.

Testing of Database

The database test is the most crucial test for any online application. The database is tested using:

- The database test confirms that the information was accurate at the time of the CURD action in the database.
- All of the consultations will provide the appropriate outcomes when we put them into practice.
- Demonstrates the accuracy of the database information reading.
- Verify the response times for the database consultations that were completed.

Testing of Performance

The cross-check of the pressure and the load of the band is named a test of execution. The Cross-checking the band's load and pressure is known as an execution test. The web load tests determine whether a website can withstand the heavy load that results from multiple users accessing the same page at once. A test of the band's pressure is when you check if the website functions and responds under pressure. The yield testing consisted of:

- The time of response of the web application will depend on the Internet speed.
- The time of load diminishes for the qualification of the shop of the side of the servant.
- When a blockade due to the full load takes place, there is marked recovery of the web application.

Testing of Security

The primary certainty of any frame is the safety test. The interior pages are inaccessible to users who are not registered. The manager's credential is not accessible to the paying customers. If a person is inactive for an extended period of time, their meetings will be automatically deleted.

CHAPTER 6

IMPACT ON SOCIETY, ENVIRONMENT AND SUSTAINABILITY

6.1 Impact on Society

Online shopping is expanding dramatically and astonishingly in Bangladesh as the country's economic growth, high levels of education, lifestyle changes, and use of the Internet and other technological advancements are all taken into account. Demand for electronic commerce techniques and technologies.

- Furthermore, there are many different national preferences for online shopping, particularly in terms of advertising and subsequent sales.
- Bangladesh is currently growing and gaining a greater population as a country.
- The digital applications that have taken the place of traditional ones offer both businesses and individual customers a number of opportunities
- The services are designed with consumers in mind.
- The contracts are made much too quickly.

6.2 Impact on Environment

With the development of the Internet and online purchasing platforms, a new strategy for marketing and selling goods has emerged. On costs and the environment, there is uncertainty regarding the systemic effects of this change in retailing. The logistics networks for product fulfillment and delivery use a lot of energy and packaging materials, which is a major issue for the new online shopping business models even though the environment gains a lot from the decrease in stock and returns.

6.3 Ethical Aspect

Online shopping is a term used to describe a platform for the exchange of goods and services over the internet. This trading procedure may take the form of offering or taking part in online marketplaces that handle business-to-business or consumer-to-consumer sales from third parties, as well as online marketplaces for retail sales to consumers.

Certain third-party communities, such as electronic data exchange, mobile platforms, and internet connections, are required for the processes and services of online shopping systems. Customers and producers can both benefit from the idea of doing business online in a number of ways. These advantages include time savings due to the shorter driving distances to shopping centers and increased shopping flexibility due to the ability to place orders wherever is most practical.

6.4 Sustainability Plan

Sustainability means attaining our aims without compromising the potential of future generations to do the same. In addition to natural resources, we also need social and economic resources. One facet of sustainability is environmentalism. Most definitions of sustainability also take economic development and social equality into account. Its goal is to achieve equilibrium between the economy, society, and environment.

CHAPTER 7

CONCLUSION AND FUTURE PLAN

7.1 Conclusion

Everyone has the opportunity to showcase their culinary innovation on this platform. Customers may purchase handcrafted specialties like traditional meals from throughout the world on this website, along with a variety of other homemade goods. A regular income may be started by the average person by selling their own meals. Our major goal is for users to utilize our online application to save time, money, and receive quick service.

7.2 Future Plan

How it may be improved further is the scope of future development? The food management system of our project, which is a home food management system, may be enhanced.
This will become stronger, and we will increase our safety. We will search for information fromboth the buyer and the seller regarding any pitfalls based on the remarks of the buyer and the seller. We'll offer an integrated, better payment system. We'll eventually add global service. Additionally, we incorporate a method for product delivery on our website. In the future, we'll additionally make use of an API that has been upgraded for location-based system development on our website.

7.3 Limitations of this project

- This project is web-based, it will not function if the power goes out.
- Cash on delivery is used.
- Only the user can choose its own product.

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PLAGIARISM REPORT

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