

HOME FOOD: A WEB BASED APPLICATION

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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/internship titled “**Home Food: A Web Application**”, submitted by **Md. Yasin Ahmed**, ID No: **172-15-10021** and **Md. Maruf Zoarder**, ID No: **172-15-10257** and **Md. Shadman Shariar Bin Sharif**, ID No: **172-15-9700** 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 B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on **06 January 2022**.

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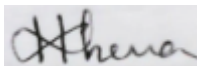
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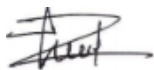
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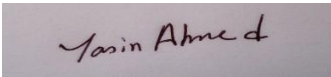
We hereby declare that, this project has been done by us under the supervision of **Mr. Saiful Islam, Sr. Lecturer, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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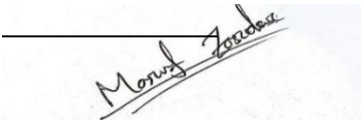


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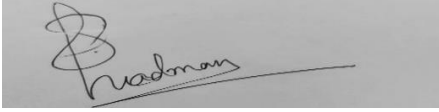
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Finally, we must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

This project is done by content management system and the project name is “Home Food” which is a Design and development-based web application. This is an e-commerce website. Now days internet is making our lives easier and we are so much depending on internet. Based on this concept home food is an online food delivery system where people can order homemade food sitting in their places. “Home food” provide homemade healthy food all over the city. This Scripts are developed in Java Script, Django, as well as HTML and CSS. From any location with internet access, users will be able to log in to the system. Signing up on the website, users will find product on the dashboard, and they can choose the product that their needs. There are many online foods delivery service at Dhaka but they all run from restaurant or any road side kitchen. But we are trying to delivered homemade healthy food by housewives and we ensure the best quality of foods and delivered it to working person whole around the city. The focusing area are time saving orientation, convenience motivation and privacy and security towards behavioral intention of home food services. The findings provide home food service providers and scholars with significant insights into what compels urbanites to adopt home food services.

Keywords: Online food delivery, behavioral intention, perceived ease of use, time saving orientation, convenience motivation, privacy and security

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CHAPTER 1

INTRODUCTION

1.1 Introduction

During this digital world where people like to do their working stuff via online and day by day people are attached with it strongly. People do not want to go to restaurants for food they want to eat the food. And so, then the advantage of online food delivery was obvious. Consumers are increasingly using online services and based on them there are several online food delivery services in Dhaka city. But those online food delivery (OFD) services working with the restaurant or other private food companies. But this Home food service works with homemade food. So, any housewife can share their handmade food on this site and people can buy that food and rate them. Home food deliver healthy homemade food to supply whole around the city mainly those who are trying to find some healthy homemade food. By this site, Consumers can easily order this food and food is delivered there places as soon as possible. This website has a lot of smart features and is user-friendly which is ensure the user's satisfaction.

1.2 Motivation

There are a lot of difference between homemade food vs restaurant food. A lot of consumers like to consume homemade healthy food in other hand the local online food services deliver restaurant food which is totally different taste from homemade food and no one can know whether those food are hygienic or non-hygienic. These why some consumer did not get homemade food that they want. In other hand, there are lot of housewives who wants to earn some money in their leisure time. They can cook well but they did not sell this food for without a selling platform. So, Home food working with this housewife and deliver their food to consumer. At the end of the day consumer can get homemade healthy food and housewives can earn some extra money.

1.3 Objectives

Currently, this is the moment of the technological revolution. A developing country may well essay to be modernized if it introduces-commerce & E-Food effectively and efficiently. So, we want to make this type of Online Foodservice. However, our country and environs will be served from saving raw accouterments, if we use our product appositely and save our money and time. So, we can describe these aims in a list like this

- Develop an effortless interface in a website.
- Focus on the people who advanced from lower-middle-class families.
- Completely responsive website.
- First time in Bangladesh we're presenting a new selling system like Order products Traditional and unique food. People order food from our website and someone who has dispensable homemade or restaurant Food can order our website by communicating with us.
- Save the money & Time of the middle-class people.
- Cash on delivery (COD) policy we use.
- All kinds of Traditional, restaurant, and unique food you can order from here.

1.4 Expected Outcome

In our Project our main focus is to provide 100% authentic homemade food deliver to all around the city. We have targeted those consumers who want to get healthy home-made food and we collect those food from our city housewives. The system is very simple. Consumer can easily order their food through our website and then our housewives prepare their ordered meal and after we deliver those food as soon as possible. Consumer can get food fast as possible. This website is very user friendly and minimalistic. People can sign up easily and get services and our Data security and data privacy has been the first priority to develop the system.

1.5 Report Layout

In this project, a chock-full overview of our system and related work and terminologies are given away gradationally. We lately made a review on this similar work and try to what's another compass to develop this being project. In chapter 2 we will describe the challenges and facing problems which is make it delicate for us. Another chapter 3 we will describe the three- stage of backgrounds. We also describe the requirement specification and try to expose users' demands. In, chapters 4 and 5 we will expose how we solve the problem and what we use to implement the project. Ultimately, in chapter 6 we will remark some concluding and suggestions for future works

CHAPTER 2

BACKGROUND

2.1 Preliminaries

We currently purchase many types of food items from the Restaurant. When we go to the Restaurant to food or set menu, we must first locate the place and buy the item. We have to go to several Restaurants to find the favorite food we require. Looking for Food in a restaurant is a waste of valuable time. Furthermore, many shops do not have many items of food collection suppose fast food restaurant bye only fast-food item, Chine's restaurant bye Chinese item. In addition, the cost of food in the shop is usually substantially higher because add your transport cost. Again, many people who are want to eat some good food at a new restaurant but do not require the food because of time and jam issues.so, if we look at this corona pandemic time, we are all very much addicted to online. And we want to do all our daily work online, so day by day the online platform is moving forward, now people do not want to go to restaurants for food they want to eat the food this is what we are going to do where we will establish the relationship between the housewife and the buyer. In this project, we are giving more priority to housewives that are our goal so that they can earn some extra income at home. So, at that point, we got that idea.

2.2 Related Works

“Home- made Food” is a web- based project where someone who isn't suitable to buy a related occasional or traditional Food can find it then fluently in the cheapest way. On the other hand, the admin can make a business, and the rest of the people who have wanted to know about restaurant plans can know it on the blog point. So, we hope that this platform will be helped to all people. online food services and restaurants can be bought and vended through multitudinous websites this design differs from all others because we have an expansive home food test with the online platform this project will act as a platform to connect buyers and sellers in this case buyers and merchandisers will be suitable to buy and deal using our design after copping the product its managed by people with design

operation liabilities who deliver it to the consumer the product still will come through our design from buyer to seller online food services can be bought and sold through multitudinous websites this design differs because we will have an expansive and huge time consumption with both manual foods this design will act as a platform to connect buyers and sellers in this case buyers and sellers will be suitable to buy and vend using our project

2.3 Comparative Studies

There are lots of e-commerce websites and Food blogs in our country but with the unique idea, we're the first group to introduce. The alternate- hand request currently is veritably popular in every country. The system that will fulfill numerous people dreams (lower- class people). We'll make a new investment system but commercially we will suppose in the future. We want to reduce the waste of plutocrat and time with great security and responsibility. The client is the first precedence for us. The websites work with a combination of administration and client service. We believe “Home- Made Food” will increase positive dispatches and interaction between home food makers and clients and it'll form an intertwined information management system for the giving and taking processes. E-Food has come increasingly important for people in all countries, I accepted this project. My thing when creating this project was to take my work experience and do a better job.

2.4 Scope of the problem

The main end of our project is to give a web- based selling, renting system, and blog. It'll be a simple way for renters to connect with clients and this platform to meet their advantages in time. Through this online process, the people will get regular support, instruction & feedback, so this project will be popular and must remove all obstacles. This provides excellent security of data at every position of user- system interaction and also provides dependable storage and backup facilities. It'll be helpful for people to select their product as their choices & will be found in the proper affordable way. It's a new online app where shopkeepers and client features are setting by sit. In our app Shopkeeper announce the product in a new way.

2.4.1 Business Analysis

This website is substantially customized for the connection to housewife to the client on the online platform. A housewife does snappily sell Food By using this website, a housewife will be advantaged because he/ she can deal food particulars on an online platform and a Housewife can fluently announce his/ her institution.

2.4.2 Time saving

This web-based application can save our time and money alike we've to appear in the different online food stores to buy traditional and unique food customers can order food from home or anywhere differently in extension they can know distinguishable program about our product in our blog site

2.4.3 Helping Hand

If we say in the time of our country that almost of the women then are housewives also it isn't possible outside of them so were working with this platform so that housewives can alike earn money from home it's a veritably useful helping hand for both customer and admin.

2.5 Challenge

The challenge of this website obviously provides good security. Account data is the top priority for us. The website will be completely responsive in any situation. Adjustment of the new idea will take time to understand but, in any situation, we're ready to confess accounts and handle customers' problems. It'll be a great challenge for us to see customers happy always. This web application is veritably user-friendly for both shopkeepers and customers.

CHAPTER 3

REQUIREMENT SPECIFICATION

As its appellation implies, a condition Specification outlines the strategy of food and the morals that must breathe met to corroborate a food grade. Specifications comprehend information that will help with the design, verification, and conservation of the item. The system is suitable for performing a variety of functions predicated to the qualifications. The demands specification of an association explains what it must serve to negotiate its purpose.

3.1 Business Process Modeling

Business Process Model shows the utility of the project. In our project, most of the component shows. The Business Process Model is given below.

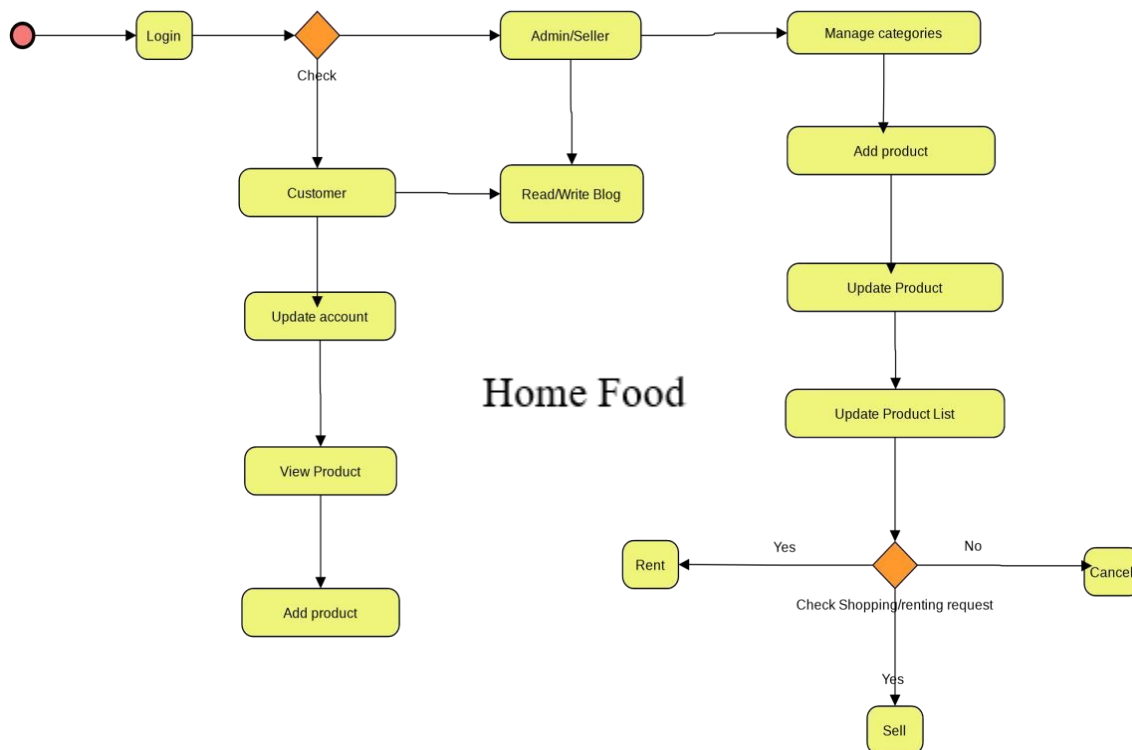


Figure 3.1.1: Business process modeling

3.2 Requirement Collection and Analysis

condition deconstruction encompasses those assignments that go into adjudging the conditions or provisos to chance for a substitutive or altered product or project taking account of the conceivably disagreeing conditions of the colorful stakeholders assaying establishing validating and managing software or system conditions when it comes to any type of design demand collection plays a crucial part conditions collection isn't only important for the design but it's also important for the design operation function demand collection is the most important step of a project however the design will be running with a threat if the design platoon fails to capture all the necessary conditions for a result this may lead to numerous controversies and dissensions in the future thus take demand collection as a crucial responsibility of the design platoon so that were re-collected our project conditions as soon as possible also we started our work.

Conditions of the software are given below

- Make the procedure easy for consumers.
- Further user-friendly for the customer.
- Keep modernized with the product.

3.2.1 Software Development Life Cycle (Agile)

As a result of its direct successional criteria, each phase must be complete before the next begins, making this version of the (SDLC) systems development life cycle model one of the most popular. We reviewed what was passing at every project stage to insure we were on the right track

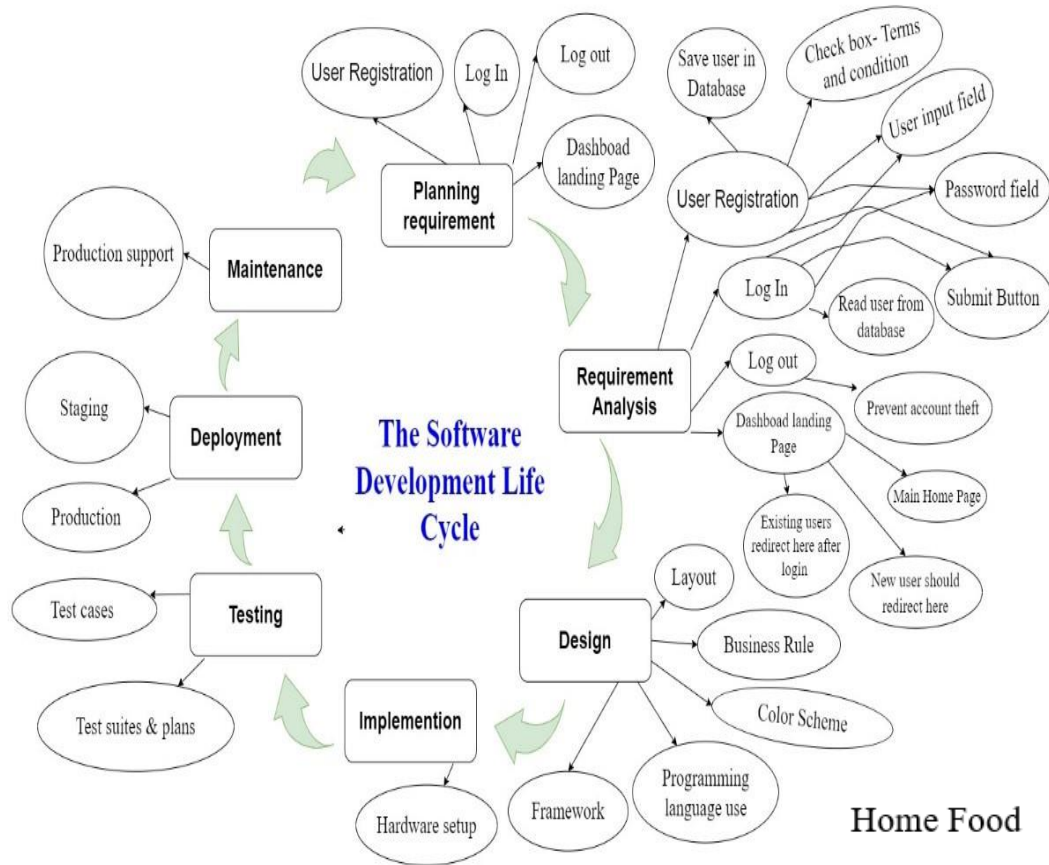


Figure 3.1.2: The software Development Life cycle

3.2.2 Flow Chart

As shown in figure 3.2.2, the procedures followed by our "Home Food".

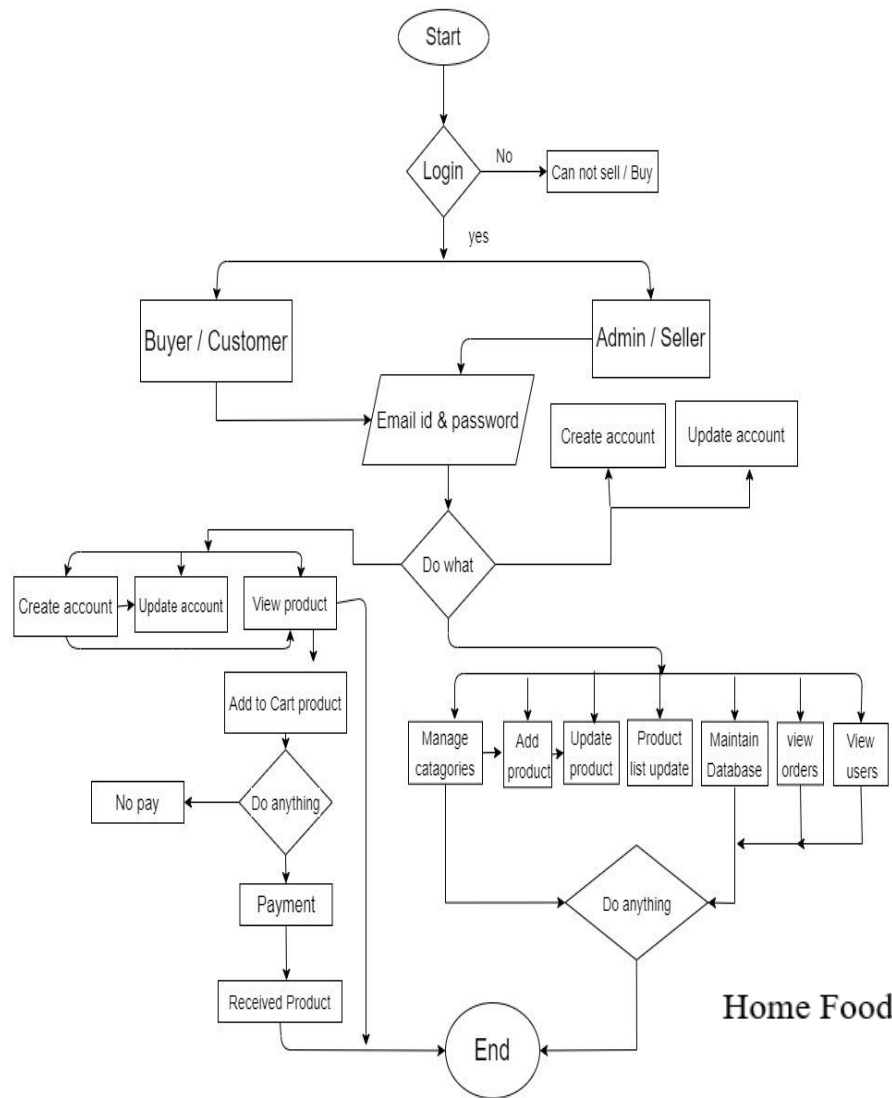


figure 3.2.2, the procedures followed

3.2.3 Dataflow Diagram

The data inflow diagram represents how data is transferred through an information system, demonstrating several aspects of its process. An original (DFD) data inflow diagram is generally used to fantasize. The system and develop an overview that can latterly be stretched. The edifice of data processing can also be imaged using DFDs (structured

design). In the DFD below, data sources and destinations are presented and storage locales of the input and affair data.

The Dataflow Plates displayed in Figure3.2.3 show these details.

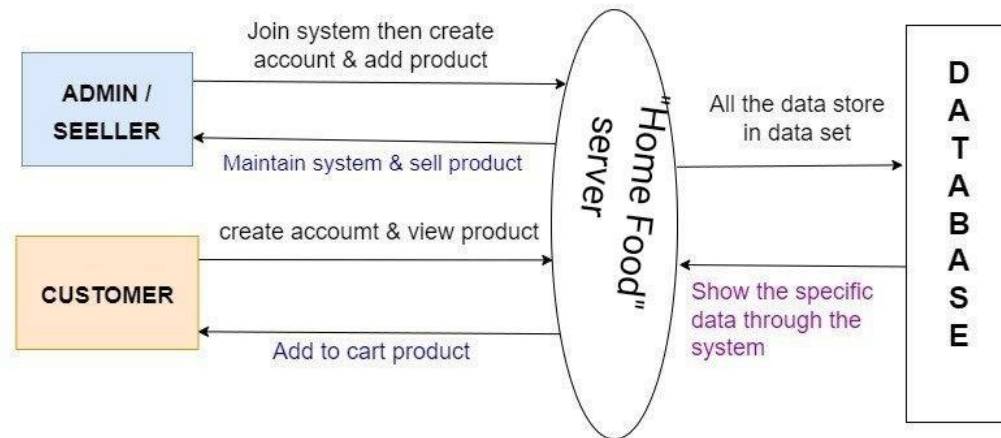


Figure: 3.2.3 Dataflow Diagram

3.2.4 Entity Relationship Diagram

Entity- relationship diagrams (ERD) are visual representations of the relationships between the entities of an information system. The existent frame structure is represented by an ERD, which is an abstract representation of data.

As shown Figure3.2.4 illustrates the Entity Relationship Diagram of our application.

An ERD consists of the ensuing elements

- Entities
- Relationship
- Attribute

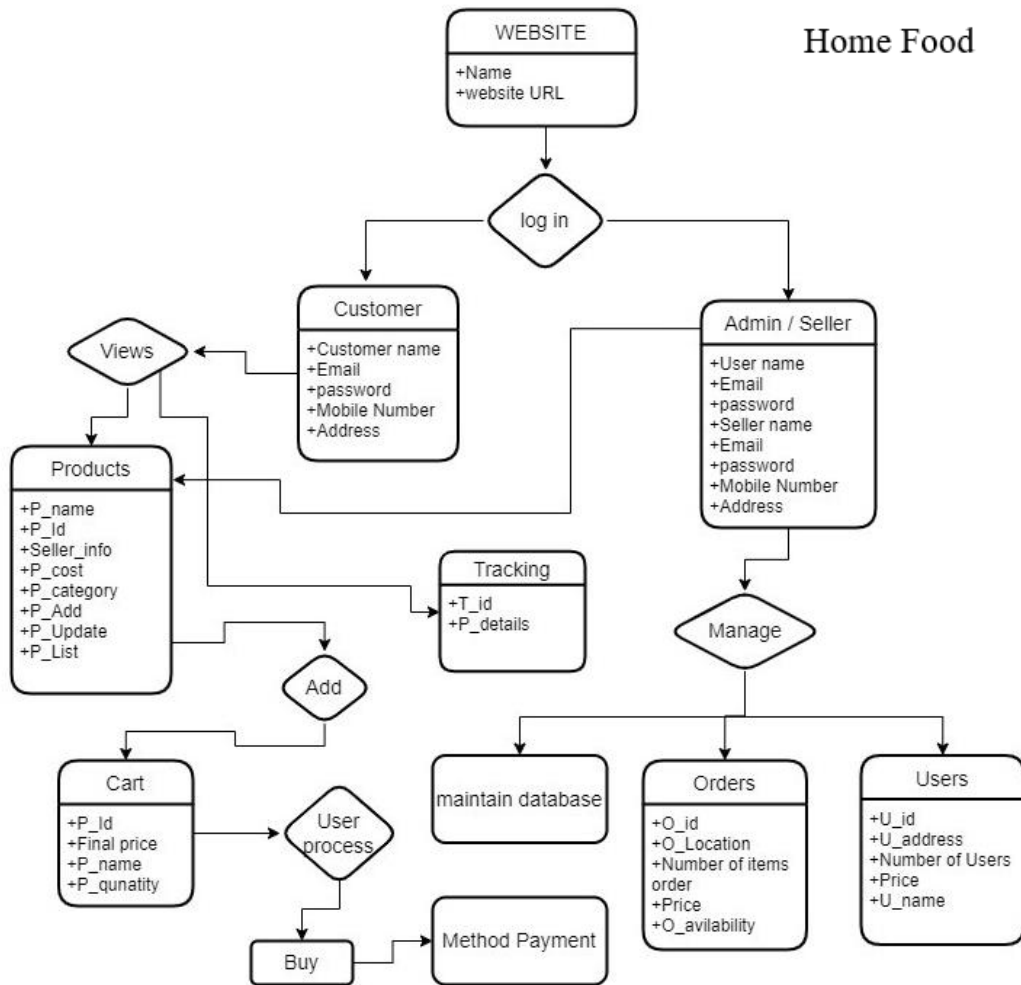


Figure 3.2.4: Entity Relationship Diagram

3.3 Use case modeling and description

Simple use case diagrams describe a user's relation with a system by showing the relationship between the user and the different scripts in which the stoner takes part. In a application case illustration, different types of users and operation scripts can be linked.

An analysis of the system has shown that this sector should be presented to the user.

Below is a list of key sectors

- Client
- Admin/ Seller

3.3.1 USE CASE FOR Customer

After logging in, customers can enter consummate areas, such as review posts, product lists, Product categories, and view products. Still, to write comments and add to cart e-Food & payments, the client needs to create their account.

Table 3.3.1: Use case description of Customer

Use case name	Customer
Actor	Admin, Visitor, Seller
Pre-condition	None
Primary path	Email id, Password, Phone no, User name
Exceptional Path	Invalid Email, Invalid Id

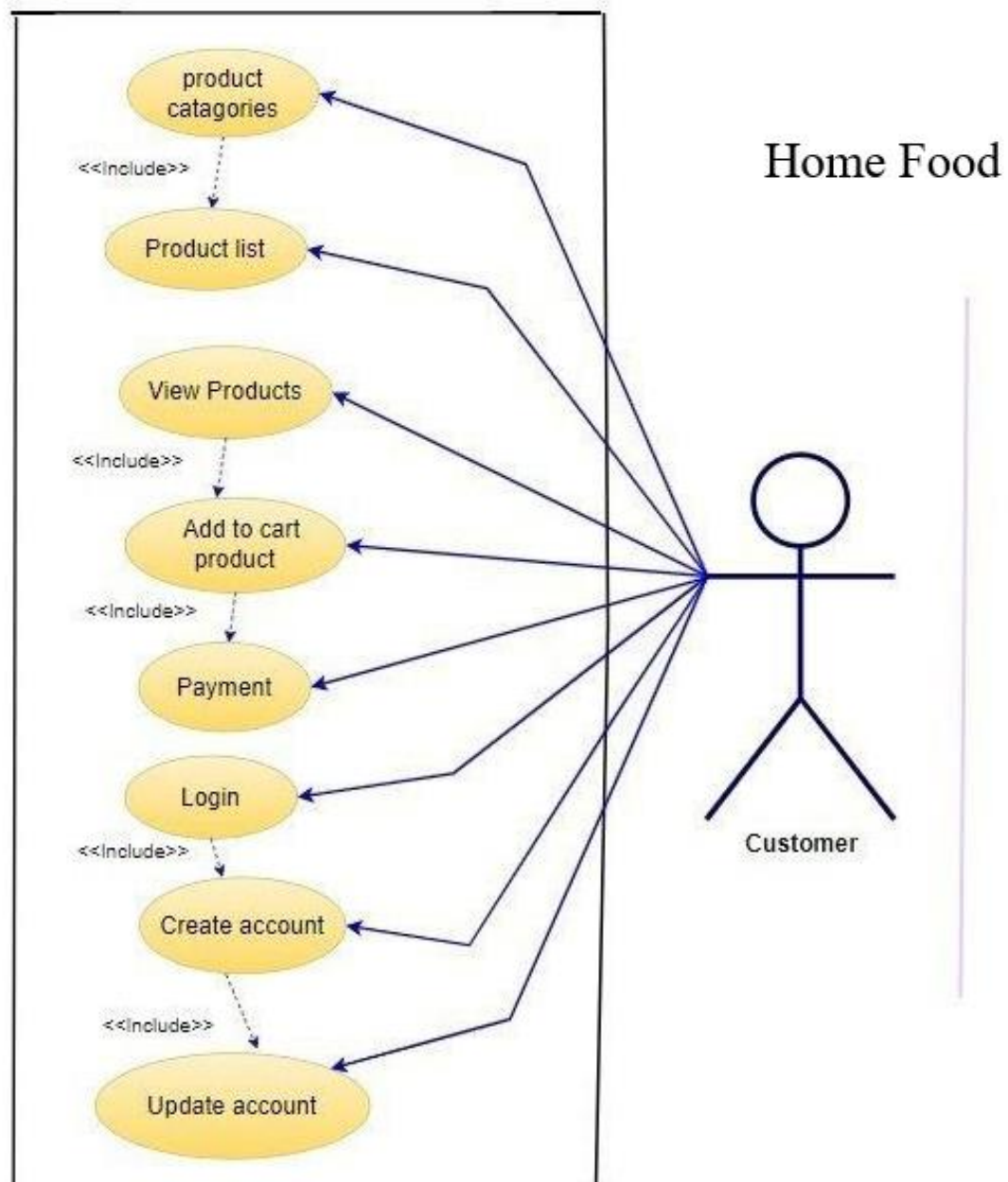


Figure 3.3.1: Use case Customer

3.3.2 Use Case for Admin/Seller

Admins can enter maximum areas, similar as reading and writing posts, Food list, product lists, managing product categories, adding products, streamlining products, viewing orders, viewing users, maintaining the database. The most important being is that without admin, there's no selling request accepted.

Table 3.3.2: Use case description of Admin/Seller

Use case name	Admin
Actor	Customer, Visitor
Precondition	None
Primary Path	Email Id, Password, user name
Exceptional Path	Mobile number, Invalid id

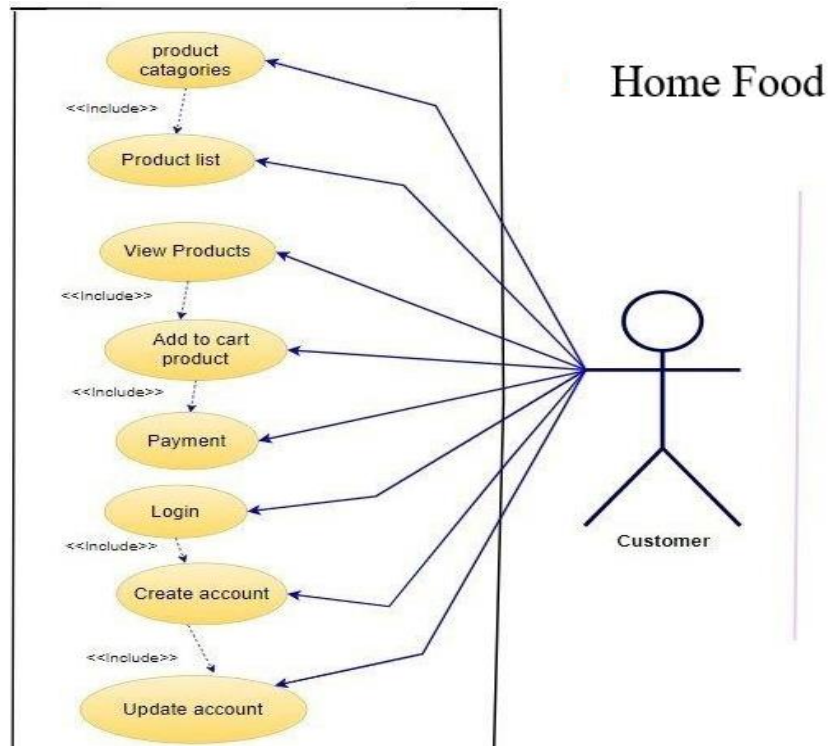


Figure 3.3.2: Use case Admin/seller

3.3.4 Use Case Description

The paper provides information on the entire Use Case Model, involving all information in the below image. A table and picture enjoy formerly existed delivered to describe each use case

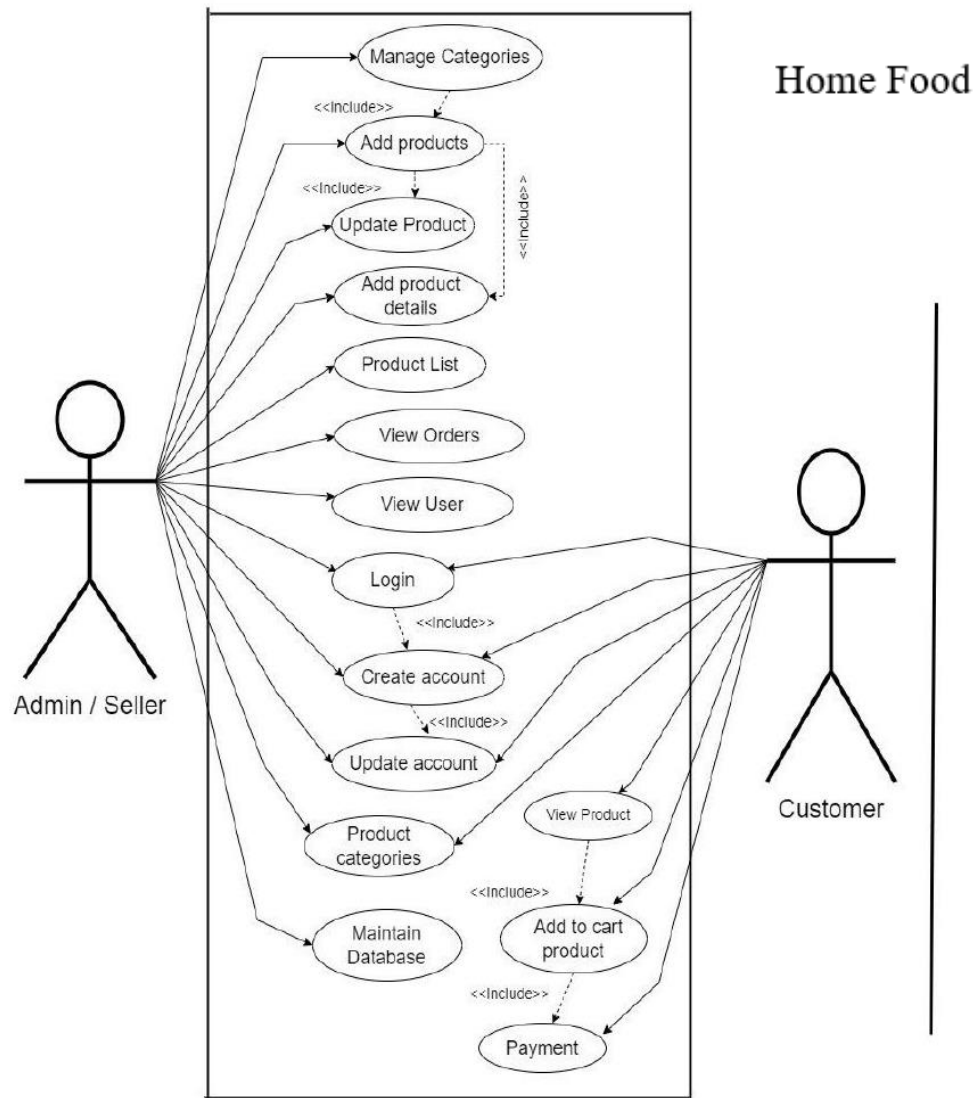


Figure 3.3.3: Flow Chart for “Home Food”

3.4 Flow chart

The processes of our “Home Food” given below:

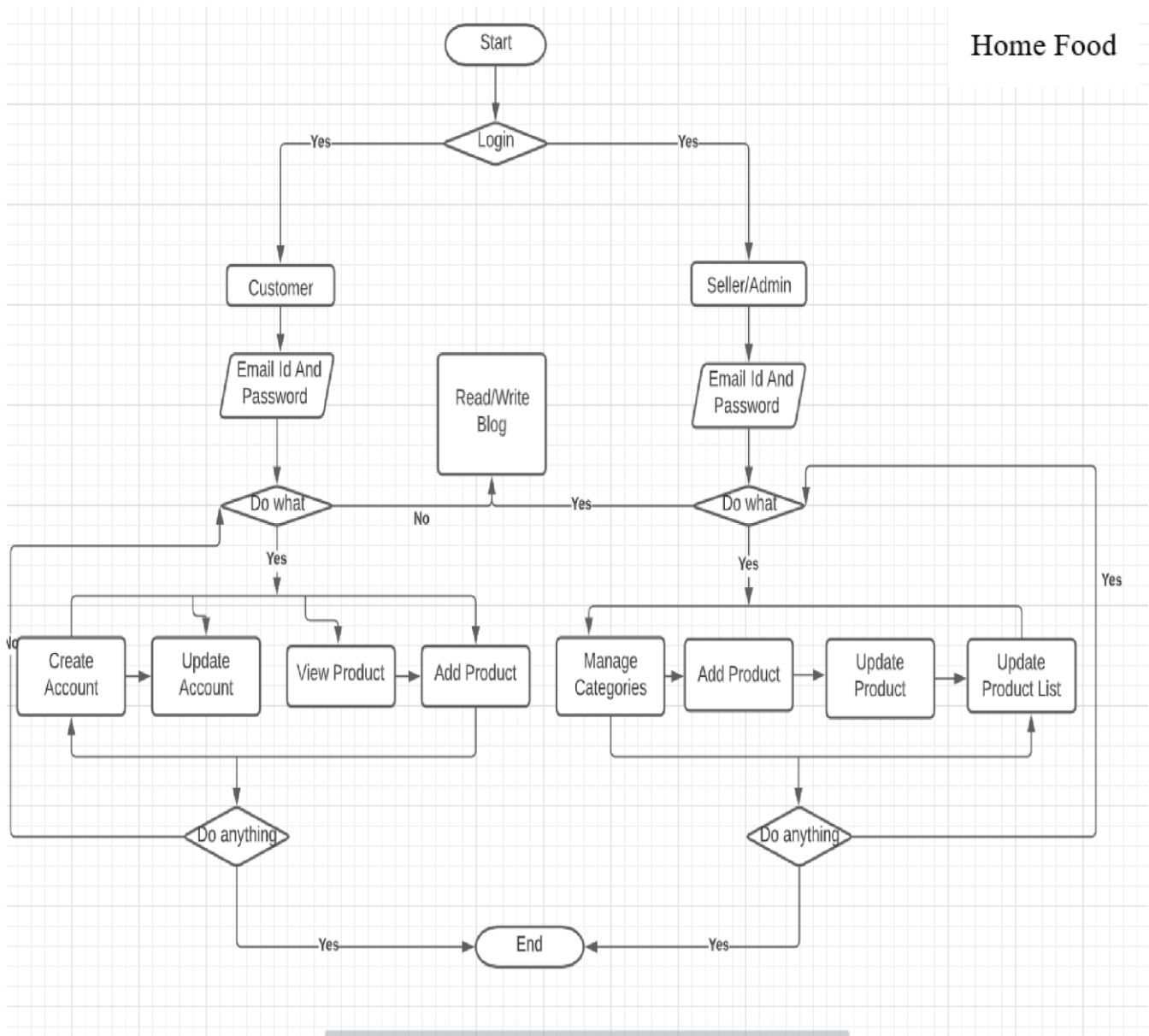


Figure 3.4.1: The process of our home food

3.5 Logical Data Model

Data modeling at this stage primarily consists of visualizing the elements of data concerning one another and detailing the attributes of each data element. Logic data modeling functions to summarize the characteristics. This assumes that our project is understood for the logical model. We must use specific information from our project and make explicit connections.

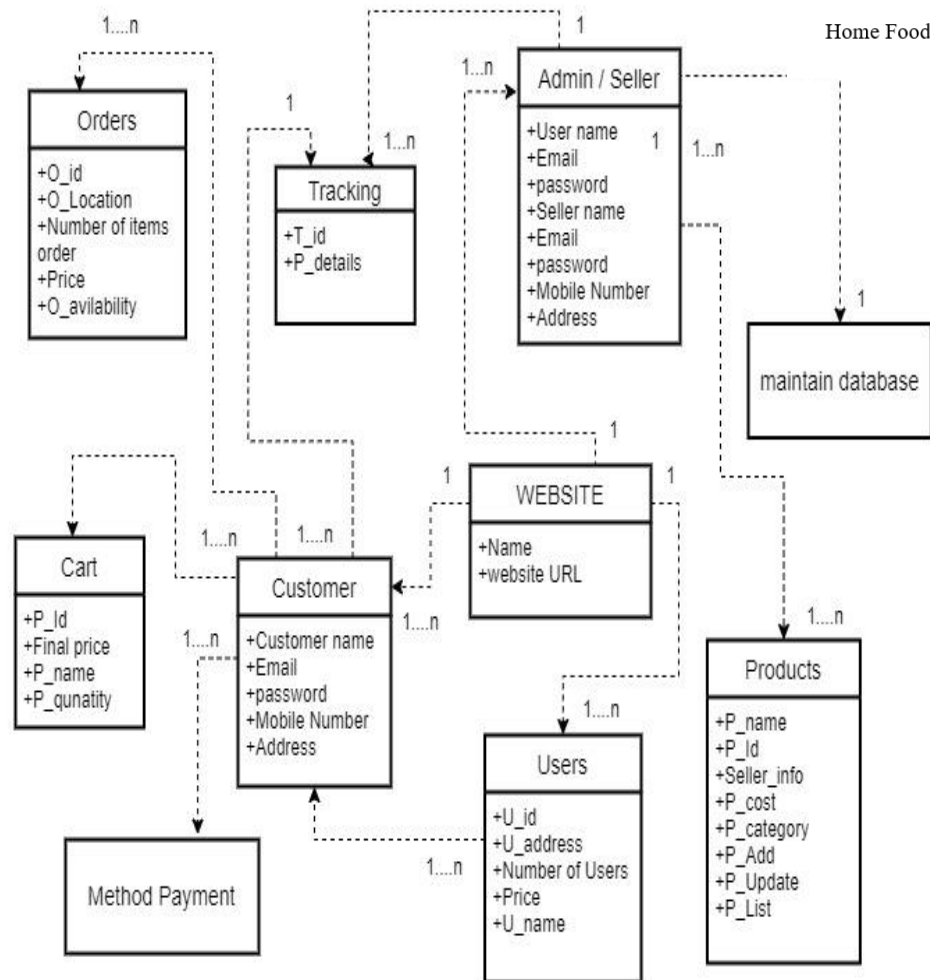


Figure 3.4.2: Logical Data Model

3.6 Design Requirement

An architectural program of a system defines representatives, modules, interfaces, and data demanded to satisfy a faction of qualifications. Throughout this chapter, we have established the overall system arrangement, involving architectural design, use case illustration, flux map, and data flux illustration. The whole generality has been designed with the user in mind. This design has existed designed with modern and streamlined implements. More, new ideas for manufacturing it popular have breathed considered. Any changes you want to make can be framed when you have time.

Architecture Design

In the architecture design describes the edifice, actions, and analysis of the system. It emphasizes the invention of the infrastructure of the system.

Our application's architectural project shows that-

- A user can enter our operation by accessing its web application into the web browser.
 - In The website site receives this link request.

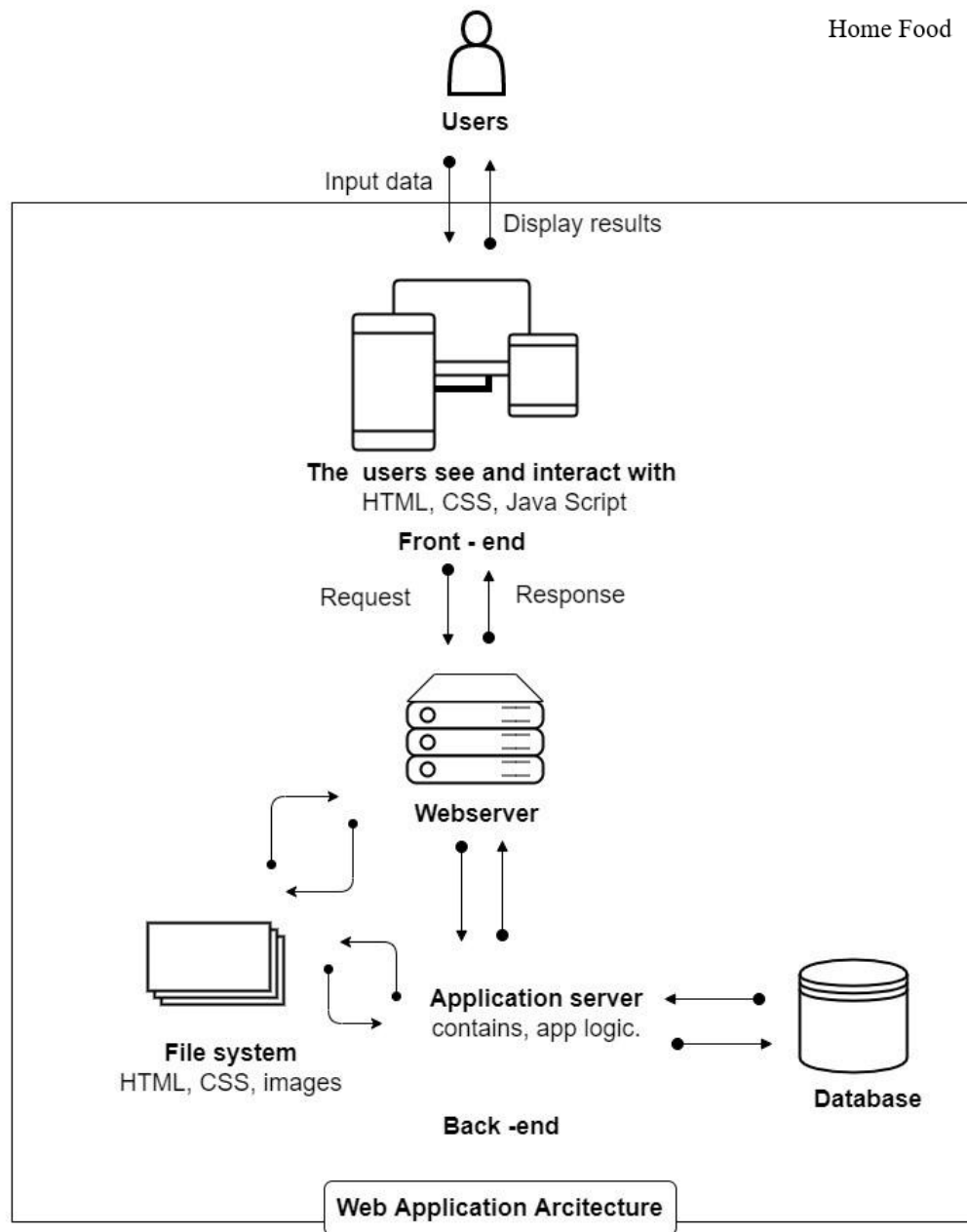


Figure 3.6.1: Design Requirement

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design

UI design is the front-end process that's employed by users. Each operation relies on this design for supernova. The utility and usability of an application must exist taken into advisement when designing. User-friendly, simple, and easy-to-use designs are a must-have. Anyone visiting the application should be suitable to extrapolate the front-end design. Besides using any template or other system for the design, coding is used as well. HTML, CSS, Javascript is exploited to produce the front end of the application.

The succeeding are the front-end tools that have been used to develop our project system

- HTML5,
- CSS3,
- JAVA SCRIPT,
- Bootstrap

4.2 Back-end Design

Taking the exact python development framework to elaborate a web application for the business can exist a veritably delicate assignment because there are wherefore numerous voluntary available from the past many days, we at.

Value Coders are applying the Django frame on a regular base. In the backend design, we use Django supports SQLite3.8.3 and latterly tools for our application.

It doesn't demand any setup that's we need is to specify an approach, where a database file will exist created and stored.

4.3 Interaction Design and User Experience

Python version	Maintenance status	First released	End of support	Release schedule
3.9	bugfix	2020-10-05	2025-10	PEP 596
3.8	bugfix	2019-10-14	2024-10	PEP 569
3.7	security	2018-06-27	2023-06-27	PEP 537
3.6	security	2016-12-23	2021-12-23	PEP 494
2.7	end-of-life	2010-07-03	2020-01-01	PEP 373

Figure 4.2.1: Interaction Design and User Experience

Table 4.3.1: Django SQLite

Release	General Availability
3.8.3	2018-06-27
3.8.2	2016-12-23

Table 4.3.2: Django Version

Release Series	Latest Release	End of mainstream support1	End of extended support2
3.1	3.1.4	April ,2021	December 2021
3.2	3.0.11	August,2020	April,2021
2.2LTS	2.2.17	December 2, 2019	April 2022

Table 4.3.1: NodeJS Releases

Version	Date	Npm
Node.js 17.1.0	2021-11-09	8.1.2
Node.js 17.0.1	2021-10-20	8.1.0
Node.js 17.0.0	2021-10-19	8.1.0

Node.js 16.13.0	2021-10-26	8.1.0
Node.js 16.12.0	2021-10-20	8.1.0
Node.js 16.11.1	2021-10-12	8.0.0

Design

A successful project can be assured during the design aspect. Designing a project of high-quality means connecting processes, accoutrements, and models to achieve success. It's the project director's responsibility to manufacture implicit that the budget and schedule of the project are kept complete.

An entirely user-friendly design existed administered in the project. The program was designed applying new tools. The project was bettered by applying several new ideas. In the futurity, fluctuations will be possible.

Project Deliverables

Deliverables aren't the ultimate productions of a project but readily their procedures or results. In different words, a project deliverable could exist as large as the project ideal itself or as small as the project reporting.

Appreciative fluctuations in the world are anticipated as a result of project deliverables. Deliverables can include advancements in processes, furnishing new or advanced services, perfecting service quality, maintaining the association's image and reputation, demoting risks, and increasing the effectiveness and convincingness of staff.

Resource Allocation

According to an association's strategic pretensions, resources are commissioned and managed. Expedient allocation is applied in software planning to insure that accessible exchequer, similar as people, are allocated consequently to achieve long- term goals. It's common or garden practice to give resources among several projects within a business or academic unit.

4.4 Implementation Requirements

Policy, criterion, or protocol accomplishment involves executing a design, idea, model, specification, or system by conveying out, administering, or practicing it. Its accomplishment (transition) conditions when they're designed to abet the transition from the being state to the asked unborn state but aren't needed subsequently. The crucial functions of conditions analysis in complexes and software engineering are to analyze, document, corroborate, and manage software conditions. In extension, refereeing which expectations want to be met by the various stakeholders is part of this process

Non-Functional Condition

This section describes some of our systems on-functional conditions:

Efficiency Requirement

Whenever our system is used by any business establishment, any product can be contemporized based on the category.

Reliability Requirement

Customers should possess the capability to search for products predicated on each categorized zone of the system.

Usability Requirement

User-friendly surroundings and easy-to- usage are among the stylish features of the "Home Food" system.

Implementation Requirements

Accomplishment of the system applying CSS5, HTML5, JAVASCRIPT, following Django for frontend implementation. MongoDB will be utilized for database connectivity. Responsive web design is used to make the web application agreeable with any screen

Delivery Requirement

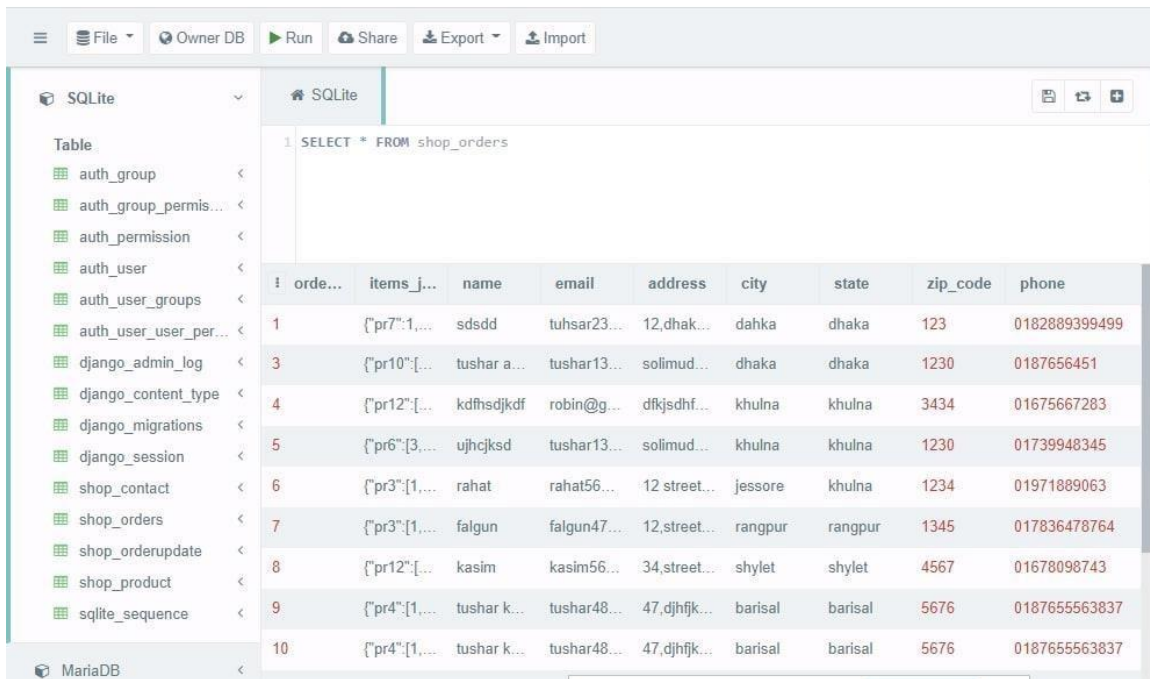
The whole system is anticipated to be delivered in four months with a daily evaluation by the project attendant

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

This is the screenshot of our databases of our project. Then comprehend the all types of data which will exist the record of our background system also. We work in Django supports SQLite3.8.3 for our databases set.



The screenshot shows a database management interface with a SQLite database selected. A table named 'shop_orders' is displayed, containing 10 records. The columns are: id, order_id, items_json, name, email, address, city, state, zip_code, and phone. The data is as follows:

id	order_id	items_json	name	email	address	city	state	zip_code	phone
1		{"pr7":1,...	sdsdd	tuhsar23...	12,dhak...	dahka	dhaka	123	0182889399499
3		{"pr10":{...	tushar a...	tushar13...	solimud...	dhaka	dhaka	1230	0187656451
4		{"pr12":{...	kdfhsdjkd...	robin@g...	dfkjsdhf...	khulna	khulna	3434	01675667283
5		{"pr6":{3,...	ujhcjksd	tushar13...	solimud...	khulna	khulna	1230	01739948345
6		{"pr3":{1,...	rahat	rahat56...	12 street...	jessore	khulna	1234	01971889063
7		{"pr3":{1,...	falgun	falgun47...	12,street...	rangpur	rangpur	1345	017836478764
8		{"pr12":{...	kasim	kasim56...	34,street...	shylet	shylet	4567	01678098743
9		{"pr4":{1,...	tushar k...	tushar48...	47,djhfk...	barisal	barisal	5676	0187655563837
10		{"pr4":{1,...	tushar k...	tushar48...	47,djhfk...	barisal	barisal	5676	0187655563837

Figure 5.1.1: Screenshot of the database table of the Django supports SQLite 3.8.

5.2 Implementation of Front-end Design

To design the website all pages like home page, Home Food, restaurant Food, Top Chart, about us, communicate us, Tracker, wain, and all other runners are given bellow:

HOMEPAGE

This is the homepage of our project. This page is also known as the main page, and this is the main page of the site. After accessing into our site user can see this page first. After searching this page is come out 1st it's known as a home page

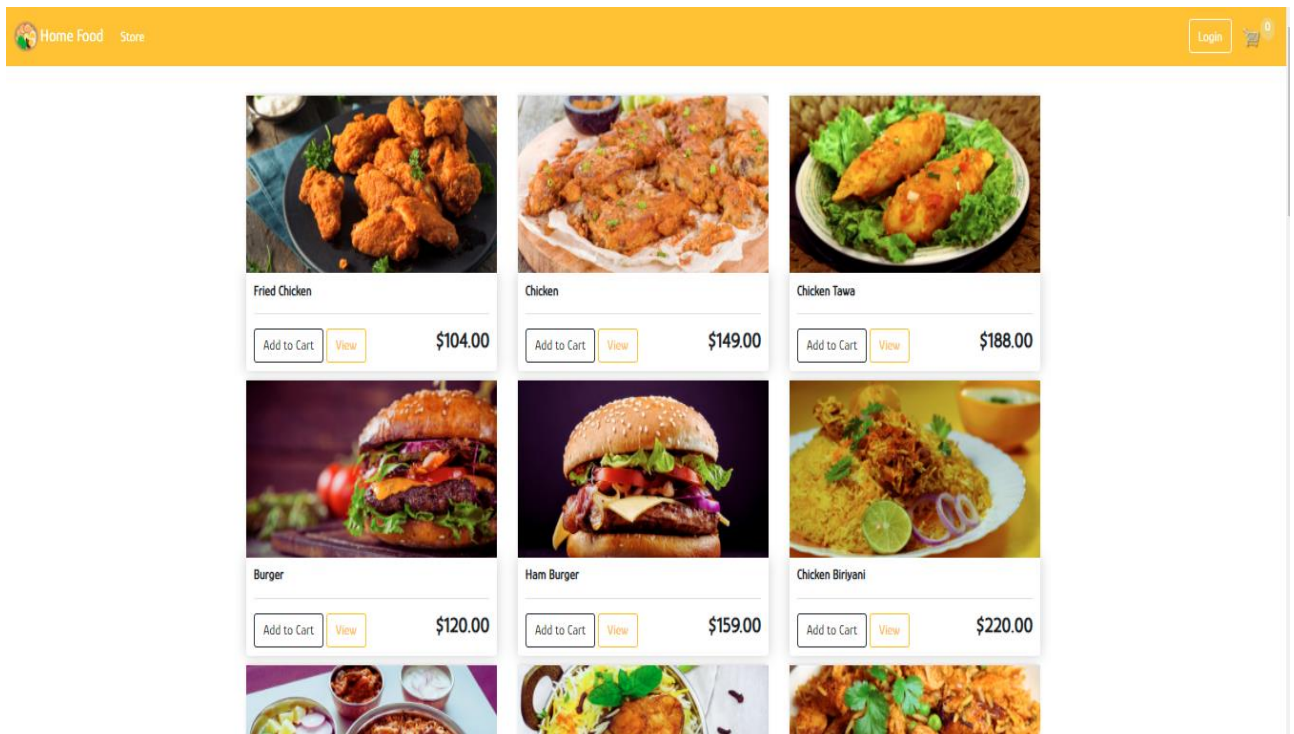


Figure 5.2.1: Family Food Homepage

Food Home Page

This is the page of Food home page. Those are available Food from here. All unique and traditional products are including on this page.

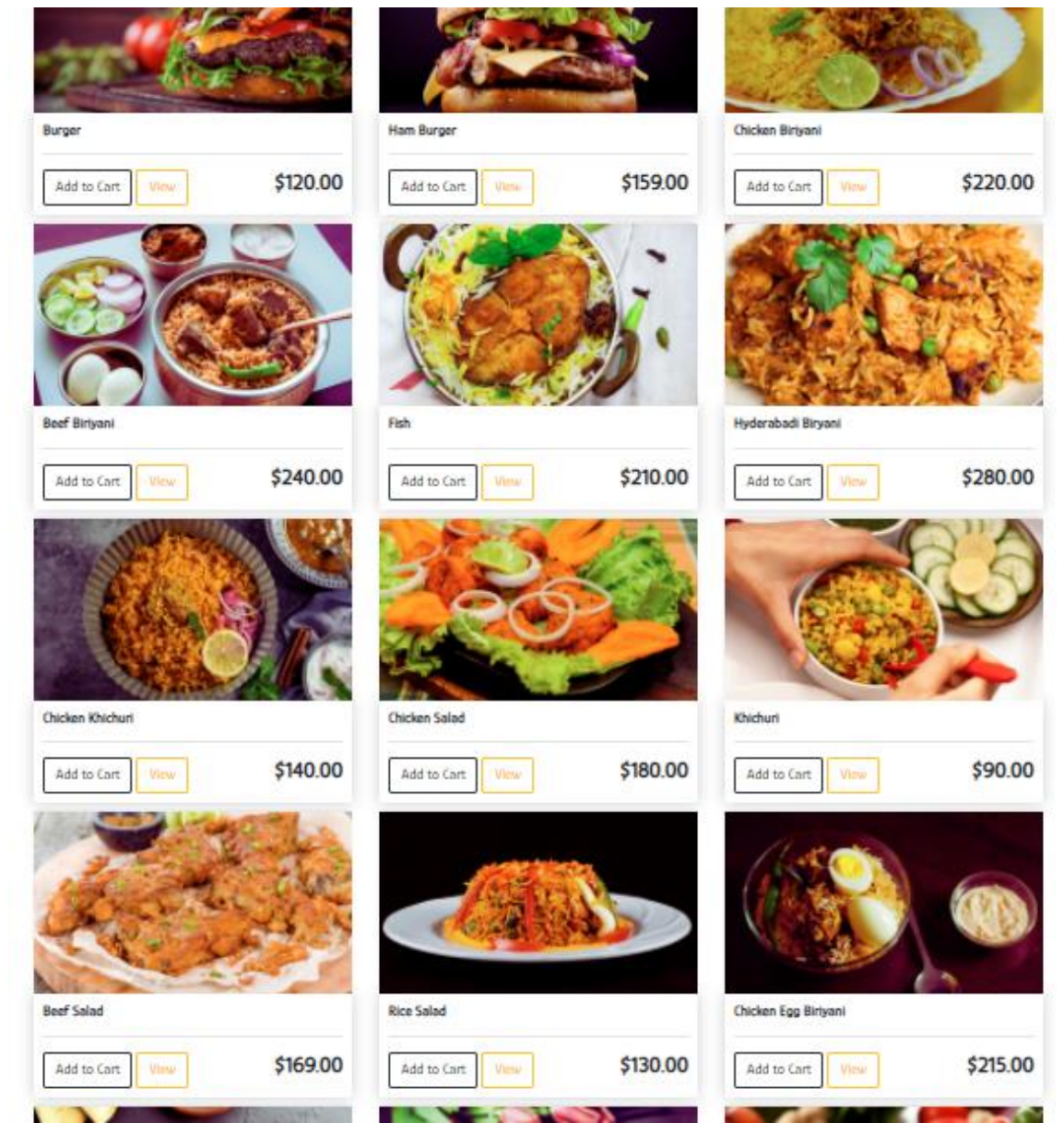


Figure 5.2.2: Food Homepage

Order Home page

this is the page for ordering food the viewer can see every item that details any food from this page they can view pictures of food with details here user can easily find all the food on the home screen or dashboard and easily can see the food price food image review and food name and food description



Figure 5.2.3: Order Homepage

Add to Cart

This page is a cart system. When the customer chooses some products, it will be going to the payment process Bkash, Rocket, any mobile Bank.

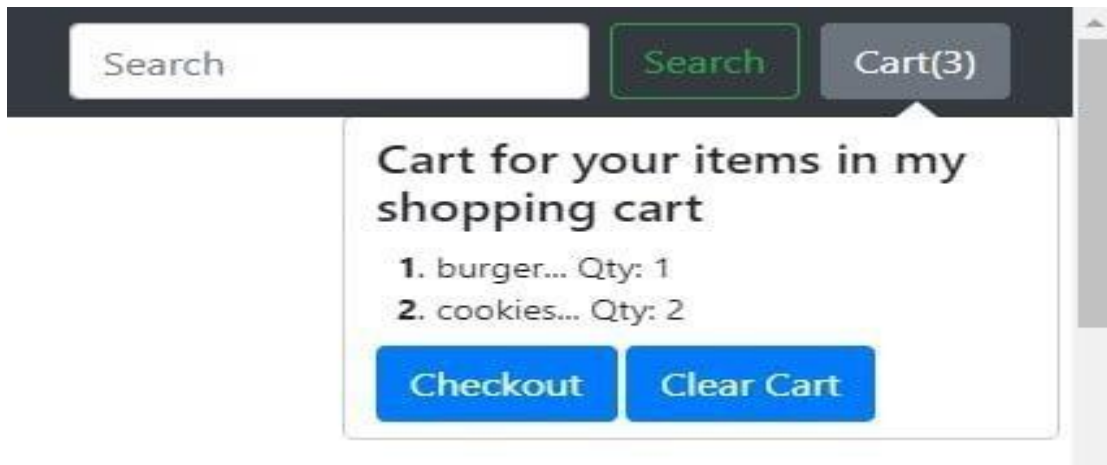


Figure 5.2.4: Order cart

Checkout

This is the checkout page. In this page, customer fillip their information and confirm their appetite food.

Family Food Store Login 6

Shipping Information:

Address..

City..

State..

Zip code..

Zip code..

Continue

Back to Cart

Order Summary

Fried Chicken \$104.00 x2

Chicken Biryani \$220.00 x2

Burger \$120.00 x2

Items: 6

Total: \$888.00

© Family Food Build with ❤️

Figure 5.2.5: Checkout

Collections

CREATE COLLECTION

Collection Name	Documents	Avg. Document Size	Total Document Size	Num. Indexes	Total Index Size	Properties
orders	6	465.2 B	2.8 KB	1	36.9 KB	
products	6	324.8 B	1.9 KB	2	73.7 KB	
users	2	197.5 B	395.0 B	2	73.7 KB	

Figure 5.2.6: Collection

5.3 Implementation of Database Django

Our database is administered in such an arterial that it can handle multiple concurrent demand contemporaneously. We've used Django, which is currently the most popular relational database administration system. We use MongoDB for our database set. It contains all kinds of data about our background system. Also, it's open-source it can be modified to our requirements if necessary. The administration of our database can be securely managed by PHP My Admin, which is available on the utmost platforms. All our operation data will be stored then, including class information and user details. Teen's a snapshot of our database set. As shown in the mongo dB database screen can be

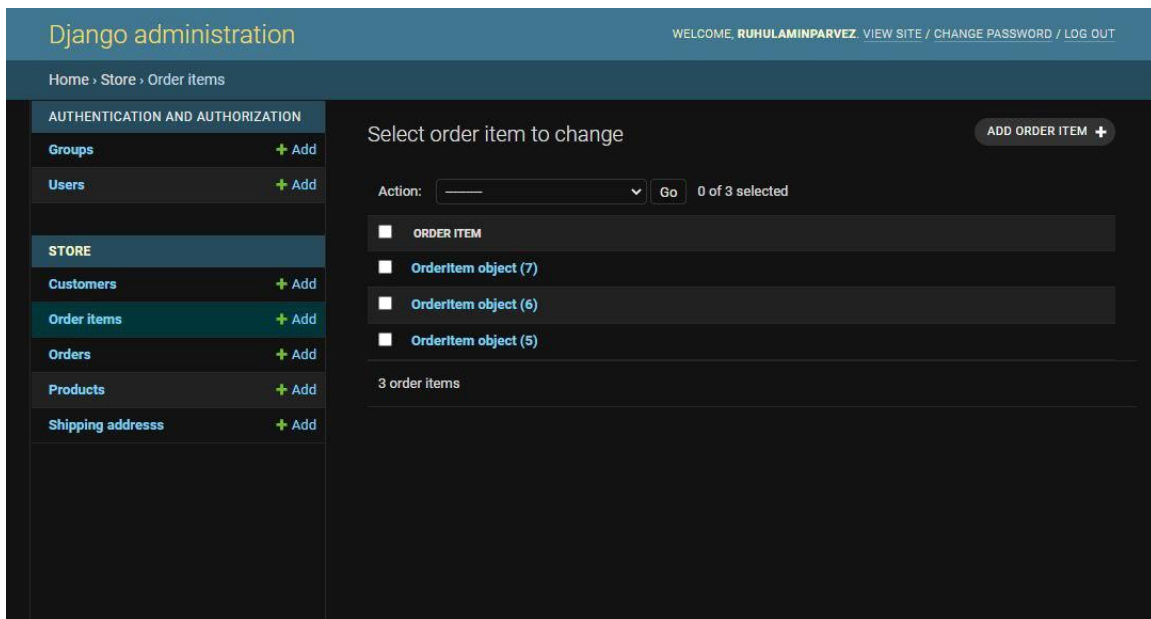


Figure 5.3.1: Implementation of Django Database

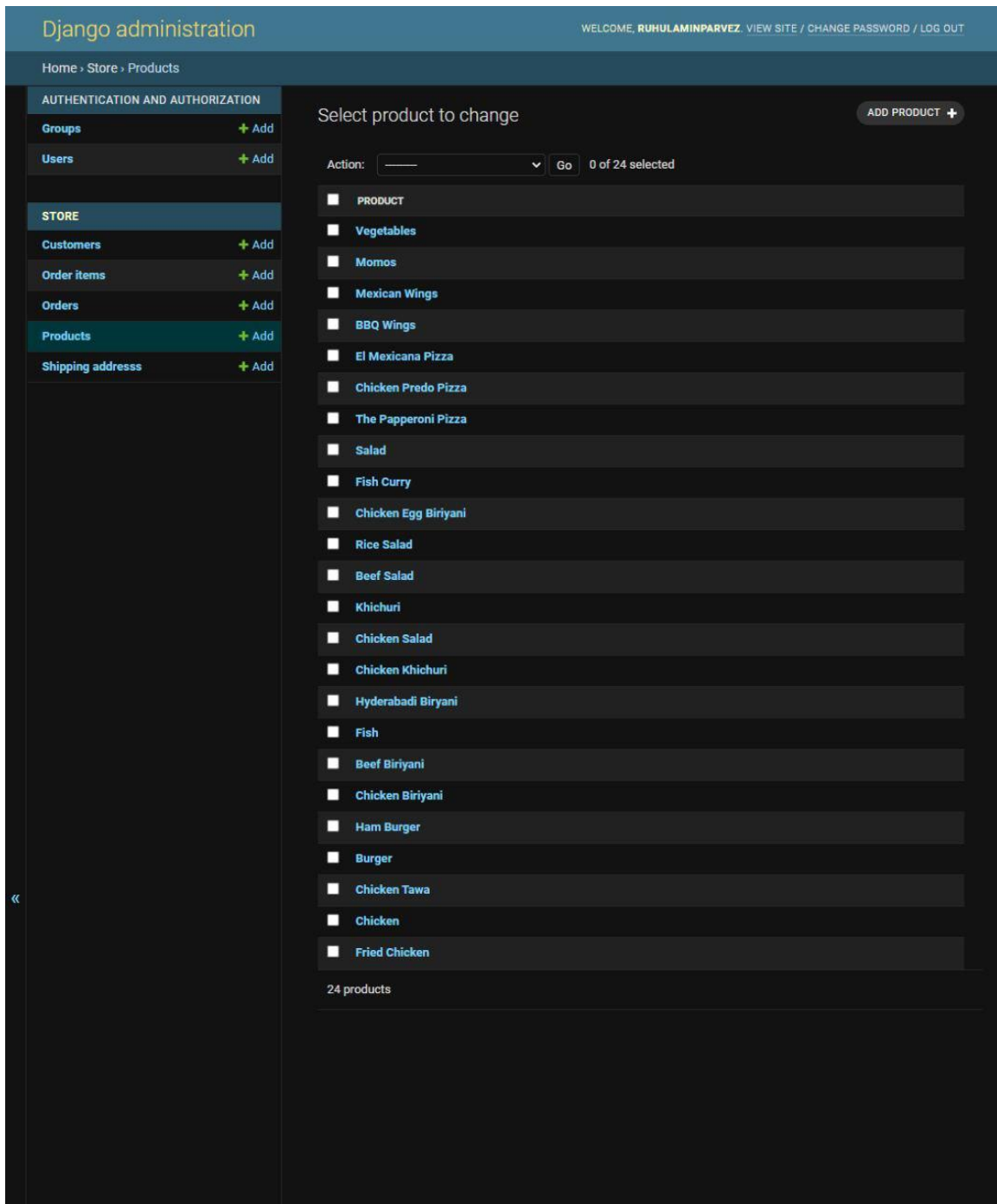


Figure 5.3.2: Django Administration Panel

Contact us

This is the contract page. The customer or viewer can give their name, email id and send their query to us.

Contact Us

Name

Email

Phone

How May We Help You?

Figure 5.3.3: Contact us

Blog

Here are describe about our Food details. Especially in review related. This is the blog site page. Customers or viewer, anyone, can view is page and read & write the blogs.

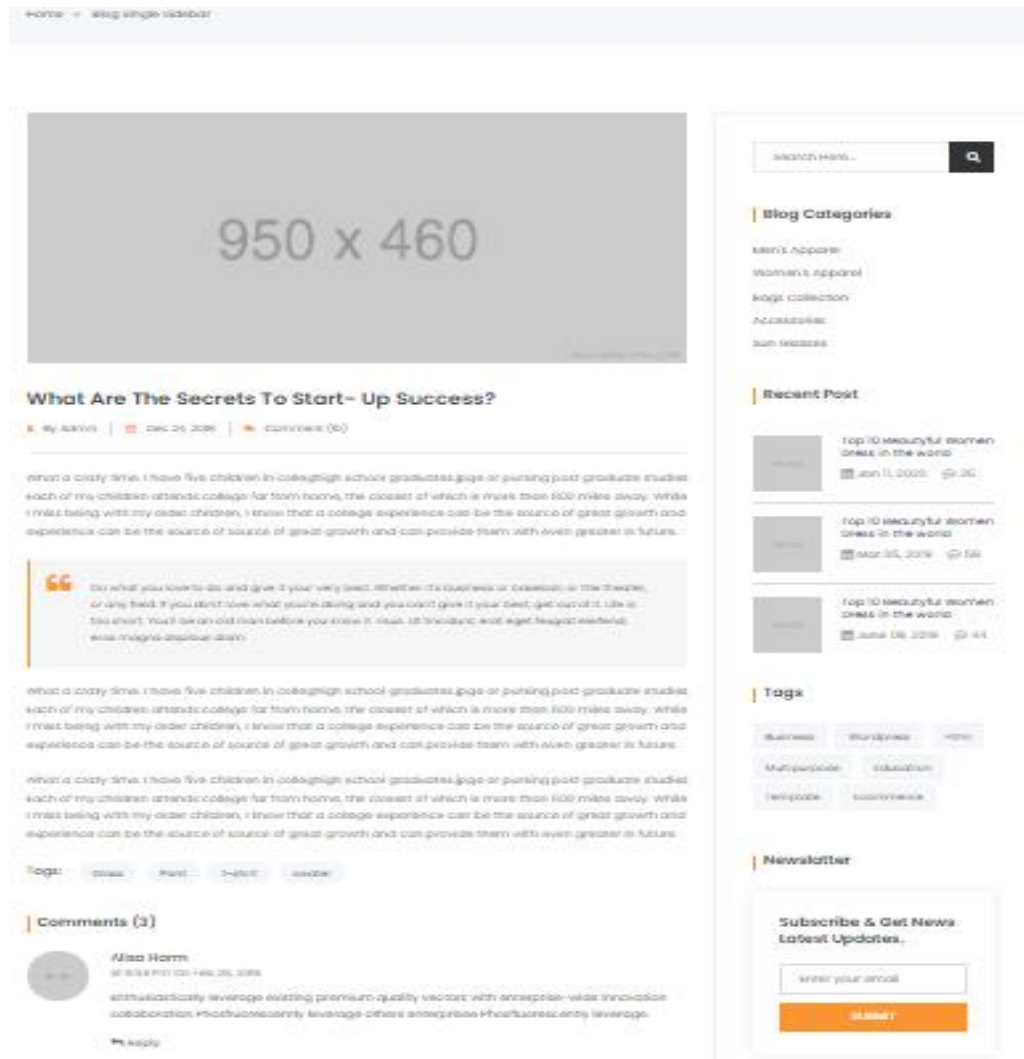


Figure 5.3.4: Blog page

5.4 Implementation of Interactions

Information and communication technology (ICT) innovations created a new dimension of business that supplies several tools and technologies. In particular for business, it can make explicit particular aspects of activity so that they can be opera shop and sell their food. Implementing an e-commerce selling and renting system cart gives such a business that gives the ability to food sell and item of food online day and night, reach new clients, target your ideal market, establish a restaurant and unique and good test home food, and build closer relationships with customers by improving their purchasing experience. It allows to sell products 365 days a year, 24 hours a day. Lowers costs and raises sales margins and creates cost-saving efficiencies. And creates an automated cycle of repeat business as well as connects to new customers previously unavailable due to distance and operating hours. Also collects customer data, demographics, and produces marketing leads, and gives customers control over how and when they'd like to shop.

5.5 Testing Implementation

Testing is the process for testing approaching implemented system where tester or system mastermind might find cases and spaces, could it be implementable and have limitation. Then we make some introductory tests to our system. We're given the value below:

Table 5.5.1 Testing Implementation:

Test Case	Test Input	Expected Outcome	Obtained Outcome	Pass Fail
Admin/Seller login	Login via a device with real information	Successfully login	Successfully login	Pass
Customer login	Login via a device with real information	Successfully login	Successfully login	Pass
Customer Create Account	Empty all the field	Show restriction to fill all the field	Field must be filled by data	Pass
Delete customer information	Click the delete button	Successfully remove student	Successfully remove student	pass

5.6 Test Results and Reports

the test report is required to image testing creates a ceremonial way which supplies a compass to evaluate testing results fleetly it's a paper that records data developed out of your evaluation experimentation in a systematized manner describes the terrain or operating conditions and shows the comparison of test results with test objects the test report is also important than is needed to understand the machine is prepared or not ready for accomplishment we must let you know several types of testing there are numerous types of testing however in the end we can carry out the result as the benefits of usability testing if the system passed through all these types of testing its eventually ready to lunch so

Table 5.6.1: Benefits of usability testing

Benefits of Usability Testing	Yes	No
Good Quality of system	✓	
System is easier to use	✓	
Application is rapidly accepted by users	✓	
Easy to use for the new user	✓	
Better UI for interaction	✓	

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

We consider the “Home Food” system will be absorbed helpful, maintainable, comfortable, and most foursquare. This System is functional for both customers who can buy & get food particulars from it. Anyone can visit this site for checking new particulars, order available products and read the fantastic blog in i.e. believe the “Home Food” System reduces the time, cost, effort, and capabilities that are needed in Physical restaurant operations. With that, we enter to consequent performance to our top purpose of this System. “Home Food” system achieves a numerous of well- done communications, a property of technologies and establishments, and access to applicable goals of-commerce food site process. We can say it'll exist expansive embodying information systems, particularly for educationists on the position of the area. Everyone can fulfill their appetite with their satisfaction. Main thinks that's user-friendly web site system anyone can visit this point quickly. I make a veritably effective and simple application for common people. I cheek that this system performs really well for the user and the admin. Ecommerce business is one of the celebrated businesses in the whole world presently. Day by day people is exploiting an online platform for shopping for their necessary effects. Applying this platform both customers and merchandisers will be benefited because they both can save their time and hassle. Sellers or businessman can grow their business using this platform. It was a great journey for me. I learned a lot of things when I made this project.

6.2 Limitations and Future Development

There are some limitations for the current system to which solutions can be provided as a future development:

1. The system is not configured for multi-users at this time. The concept of transaction can be used to achieve this.
2. The website is not accessible to everyone. It was deployed on a free webhost site so this can't be reliable at this moment,
3. Bangladeshi online payment transaction system like Bkash, Rocket, Nagad etc. not engage yet.

As for other future developments, the following can be done:

1. The Administrator of the web site can be given more functionalities like looking at a specific customer's profile, the books that have to be reordered etc.
2. Bangladeshi online payment system will be connected
3. Multiple Shopping carts can be allowed.

REFERENCE

- [1] The information about the possibilities of e-commerce from - <<
<https://www.entrepreneur.com/article/159680> >> Last Accessed on 27-11-2021 at 9:00 pm.
- [2] Django Tutorial -<<
<https://docs.djangoproject.com/en/4.0/intro/tutorial01/> >> Last Accessed on 25-10-2021 at 12.00 pm
<https://www.tutorialspoint.com/django/index.htm> >> Last Accessed on 25-10-2021 at 2.00 pm
- [3] Sifat Rahman Riti “Krishnokolir chilekotha : A web based application” last accessed on 01-01-22 pm
- [4] Mohd Helmi Ali, Kim Hua Tan, Fauziya Sjahroedding & Lusianus Kusdibyo”Loyalty Toward Online food delivery service: the role of e-service quality and food quality” published : 24 nov 2018
- [5] Charlene Li, Miranda Miroso and Phil Bremer “Review of Online Food Delivery Platforms and their Impacts on Sustainability” published 8 july 2020
- [6] Carsten Hirschberg, Alexander Rajko, Thomas Schumacher and Martin Wrulich “The changing market for food delivery” published on: nov 2016
- [7] CSS Tutorial at << <https://www.w3schools.com/css/>>> Last accessed on 20-11-2021 at 8:00 pm
- [8] HTMLTutorial at << <https://www.w3schools.com/html/> >> Last accessed on 20-11-2021 at
- [9] host site -<< <https://www.pythonanywhere.com/> >> last accessed on 01-01-22 at 2.00 pm
- [10] How to Make a Flowchart, available at <<<https://www.smartdraw.com/flowchart/>>>, last accessed on 2-10-2021 at 12.35 PM.
- [11] Software Development Life Cycle (Agile), available at <<<https://www.analyticssteps.com/blogs/what-agile-software-development/>>>, last accessed on 2-10-2021 at 01.00 PM.
- [12] Business Process Modeling Techniques, available at <<<https://creatly.com/blog/diagrams/business-process-modeling-techniques/>>>, last accessed on 10-11-2021 at 8.00 PM.

APPENDIX

Appendix:

We began our quest to create a system through which we can serve healthy homemade food all over the Dhaka city. This system can help both a consumer who wants some healthy food and housewife who wants earn some extra money in their leisure time. We also considered a simple and painless method that would allow us to save time. We followed the methodology to build and monitor our system with a lot of effort and time spent, and we were ultimately able to achieve our goal. This is why we are confident that our “Home food” Application System would be useful and beneficial to users. We shall be ready to upgrade our system on a regular basis as soon as possible.

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https://www.researchgate.net/publication/334050513_Online_Food_Delivery_Services_Making_Food_Delivery_the_New_Norm

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http://www.cs.iusb.edu/thesis/SKhodali_thesis.pdf

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<https://www.django-project.com/download/>

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< 1% match (Internet from 23-Jul-2021)
<https://docplayer.net/46335133-The-changing-market-for-food-delivery.html>

< 1% match (Internet from 30-Nov-2019)
<https://doowop-net.com/a-project-report-on-keep-clean-based-android-studio-platform-by-mazhar-ul-alam-id/>

< 1% match (Internet from 28-Feb-2014)
<http://django-irc-logs.com/2013/aug/20/>

< 1% match (Internet from 15-Aug-2017)
http://sir.stikom.edu/2283/4/BAB_III.pdf

< 1% match (Internet from 25-Sep-2021)
<http://tudr.thapar.edu:8080/jspui/bitstream/10266/3459/4/3459.pdf>

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<https://www.slideshare.net/hirrasultan/report-54617149>

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