

**An E-commerce Based Web Application To Promote The Consumption Of Quality
Foods By Customers**

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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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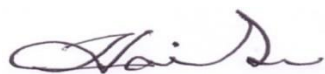


DAFFODIL INTERNATIONAL UNIVERSITY
DHAKA, BANGLADESH

APPROVAL

This project titled **An E-commerce Based Web Application To Promote The Consumption Of Quality Foods By Customers**, submitted by **Md. Shoyaib Mahmud ID No: 172-15-1525** and **Samiul Sany ID No: 172-15-1583** 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 18th of September 2021.

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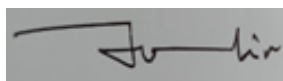


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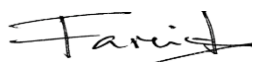


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DECLARATION

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 the award of any degree or diploma.

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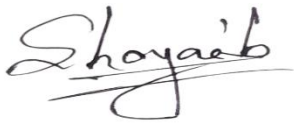


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Finally, we must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

Our project title is **An E-commerce Based Web Application To Promote The Consumption Of Quality Foods By Customers**. It's an online-based web application where people can buy fresh food at the cheapest rate. Users can purchase foods by creating an account or log in to their existing account. Admin can add or delete products, separate user roles and also control the whole website. It has an admin panel, user interface, payment method, user registration panel. Now a day's all the food we eat is not fresh or if the food is fresh the price of that food is very high. Whether we know it or not every day the food we take for our body is not totally fresh. Fresh farm collect food directly and there is no other party between the buyers to sellers. This gives the consumer the right thing to choose. On the other hand, It will also give a comfortable price to the customer. Overall this will help people to consume fresh food and as well as the nutrition fact of this food.

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CHAPTER - 1

INTRODUCTION

1.1 Introduction

Fresh Farm is a web-based software that helps people to buy fresh food at the cheapest price. This software allows people to buy fresh food very easily and they also see the nutrition fact of every food in the case of Bangladesh as well as the lab test verification of every food with the collecting video.

It is a web-based project. So users can easily access this with any type of smartphone or tablet and computer using an internet connection. We will try to create a user-friendly interface that the user can use and buy goods very easily. By creating this website we will be able to give people fresh foods by maintaining prices. We will be able to control the price by importing commodities directly from the field level. Our project is mainly about giving the best authentic foods at a low price. For doing this we mainly focus on food quality. We try to create a user interface where users can see authentic foods.

We all know that adulterated food is harmful to health and every time from different ways we take this by eating foods. For that reason, we focus on food authenticity. For food authenticity we use lab test verification. In this way customer definitely knows if the food maintains the quality or not. We are trying to implement our project by using the Django framework. We learn about HTML, CSS, bootstrap, java script, python and Django framework. We also learn about git, payment method implementation etc. We are trying really hard to learn those languages. In the end, we work on this project using those languages. We are trying to create a user-friendly web application. We also create the user interface.

1.2 Motivation of this project

Bangladesh is an agricultural country where the agriculture sector plays a vital role to accelerate our economic growth. Every day we eat food for our health. But because of some unscrupulous traders who are adulterating food for more profit, we are constantly consuming adulterated food without knowing it.

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Fresh Farm is a web-based software that allows customers to see authentic foods via lab test verification. They can also see the real time nutrition fact for this food. It is a web-based project where users can easily access any type of smartphone, tablet and computer using an internet connection. The use of this software will increase awareness about the harmful aspects of adulterated foods and it will encourage people to take authentic foods.

1.2 Objectives

Collecting food from field level and maintaining the price as low as possible. There are no other parties between the buyer and seller. So we ensure foods quality as well as the price. For far more quality testing we are going through lab test verification to completely ensure the quality of the foods.

As we are collecting those foods from field level so that we can give a fair price to the customer. By maintaining the foods price more people can get these foods.

1.4 Expected Outcome

Adulterated food refers to the process of making food by mixing other substances or chemicals that make food unclean and harmful to the human body. These days Adulterated food is a major problem in our country. It is done in a variety of ways to get immediate profits. Sometimes food is given artificial colors to make it brighter and more attractive to people. Even toxic chemicals are used for this purpose.

But it is a serious threat to public health. It can cause deadly diseases such as kidney failure, cancer and diarrhea and so on. Sometimes the bad consequences of Adulterated food are immediate and sometimes diminished. Food adulteration is committed in such a way that it is not easily understood. We cannot allow it to continue. It should be stopped immediately. That's why we created this website so that everyone can get quality food at a low price with lab test verification.

1.5 Report Layout

In Chapter one: We are discussing the concept of how important to take authentic food for our body. Here We are covering introduction, Motivation, Objective, Expected outcome. In Chapter two: We will discuss “quality & adulterated food”. We will try to cover the Introduction, Related works, comparative studies, Challenges, Problem.

CHAPTER - 2

BACKGROUND

2.1 Introduction

Currently we are facing an advanced Bangladesh. Right now huge people in Bangladesh are using Android mobiles and also huge number of people are using the web for various reason. This project is a food-based e-commerce project built primarily on the basis of people's with fresh food ordering systems. The website initially focuses on foods freshness and how a product can be bought quickly and efficiently.

.

2.2 Similar Works

There is no other similar project available now in Bangladesh like quality foods with lab test verification. We also added nutrition facts and keeping the price as low as possible. However, we are focusing on building up communication between the Buyer and Seller be aware of the importance of taking authentic food. In our country many Business institutions only focus on market activities and profit. We have decorated the product management, Stock activities & put a lot of effort on communication. This is one of the advantages of this software. Other advantage is customers can buy anything only by online registering as well as they can see the products with lab test verification.

2.3 Relative Studies

This quality food software is very unique. But with this application, the user can buy food and see the lab test verification result just by doing the simple registration.

The lab test verification we provide is completely different from other systems. So our system is completely different and unique. If we see the other systems, they just provided foods for the customer but it's not sure if the food passes the quality test or not. We have been working here on the food quality so that the customers can see what's they eat.

2.4 Scope of the Problem

We've faced lots of problem working on this project such as how we can deliver the best authentic foods, how can we collect foods etc. Visit us and get ideas on how the other food delivery system manage their whole system in our country and how can we smoothly run our system. It is up to you to decide the best option for you. We will keep our promise and give you the best offer with importance. There is a lot of errors we found at the very beginning when we started implementing this system and we are doing our best to solve those errors.

2.5 Main Challenges

We are facing many issues on our website when we completed it and we are trying to overcome by fixing these issues. So after all we manage what to do and how to fix bugs under pressure. In this website, our main goal is to think and figure out how to collect fresh foods and implement this thing on our site. In past few months we have researched many foods related websites and they just sell foods but no one is guaranteed about the freshness of their food and no one is provide the lab test verification certificate. So we step forward and take the challenge to create a fresh food website with this idea.

CHAPTER - 3

REQUIREMENT SPECIFICATION

3.1 Collecting Requirement and Analysis

The project we created has many sorts of Software Requirement Specification (SRS). For software, the best requirement is important to interact with the users. As per as user request, There are many types of requirements we covered. We've collected user requirements step by step. From different places we also gathered many data and implement it.

We carefully examine the requirement data we collect. We create our project by applying those data, requirements and so on.

3.2 Functional Requirement

- Registration page for new user / existing users
- Selected products are placed into the cart automatically
- Complete details of foods, quantity and cost will be shown
- Users may submit a product rating with a comment.
- Real-time nutrition data is added for every product
- Users can see how we collect those foods through video.
- Users can also see the lab test verification result.
- Faster response.
- Protection of customers as well as consumers
- Provide blogs Reviews
- Easy to check and browse anywhere

3.3 Overall Description

Here this section will define the capabilities and their function and the drawbacks that specialized prerequisites of the initiative would also be pictured.

3.3.1 System Interface

The program is connected to a built in SQ-LITE-based database. The user may control all complex choices such as deleting, add to cart. On the other hand, the admin may control inserting and modifying and all the other things after log in to the admin panel.

3.3.2 User Interface

The main thing we focused is about the freshness of the food. The structure is as simple to use as we implement it to design. The structure of login for all customers is the same. After signing in, everybody will get a window where they can see the food list.

3.3.3 Hardware Interface

Our Project is a web-based application. So there are no exceptional types of equipment interface that would be needed for this system. If we add some part later on, we add it at that time.

3.3.4 Communication Interface

The Transmission Control Protocol or Internet Protocol (TCP/IP) is the default way for data transmission between the customer and the network PC.

3.3.5 Memory Constraints

For this software, there is no strict memory requirement. The venture partnership, quality agreement, research schedule, and recording plan were carried out in the arranging process.

3.3.6 Operations

The key activity is that to entered information into the structure, sparing it in the archive of information, refreshing, looking at and printing the data output away.

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3.4 Business Process Modeling

We will think about our venture for business purposes later on. It's our vision. It is the design structure that resembles a law that uses a given commodity, time period, and the schedule available to express excellent programming. A well-known coordinated structure is used to construct this object.

3.5 Requirement Analysis and Specification:

The primary law in making it is to remove the requirement and precision of the ideal programming object. While consumers may be agree that they understand what the product should do and how to do it with the product, at that stage it will need programming skills and participation designed to interpret fragmented, misleading, and competing needs. Different food-related websites were visited and their methods were contemplated. Prerequisites for goods and equipment are also reviewed and particulars are examined at this level.

3.5.1 Hardware Requirement

Users need at least one gadget with internet to operate this site. We're currently working on the need for this site.

Table 3.5.1: Hardware Requirement

Hardware	Hardware specification
Motherboard	Any
Ram	Minimum 256 MB
Graphics card	Any

Hard Disk	Not required
Monitor	Any Type of digital Monitor
Mouse	Any
Keyboard	Any
Casing	ATX / MICRO ATX

3.5.2 Software Requirement

The expanded site gets different forms of programming. The minimum software requirements are given below:

Table 3.5.2: Software Requirement

Software	Usage of Software
Windows operating system (Any Version)	Control all the hardware and software of a computer
Visual Studio Code	One of the best and most popular code editor to write code
SQLite	Built in Django database
Pycharm	To run a Python Django project

Fig 3.2: Software Requirement

3.6 Design Requirement

First of all the illustrates highlights the overall design and activities including knowledge base plan, programming setup, computer designs and others document. To construct the whole thing, there are many types of configuration, such as Data Flow Diagram(DFD), Flow chart calculation, Use case and other things.

With some basic design capabilities, we need these things to prepare the design

1. HTML
2. CSS3
3. Bootstrap
4. JavaScript

3.6.1 Hypertext Markup Language (HTML)

For creating a web page we must need HTML. It is the basic markup language. It represents the layout of web pages and it is also give a simple document designed and show it to the web browser. Browser received html document from local storage and render it to convert multiple web pages. Browser doing all this thing semantically.

3.6.2 Cascading Style Sheet (CSS)

CSS gives life to the html documents. HTML just giving the web page structure and CSS gives color, space, shape, position and so on to make the html structure alive. CSS can be used in multiple page at the same time.

3.6.3 JavaScript

JavaScript is known as scripted language for web page. It is lightweight, single thread, dynamic, interpreted (just in time) compiled programming language. Brendan Eich

created JavaScript in September 1995. The latest version of JavaScript is ES6 (ECMA Script)

3.6.4 Bootstrap:

Bootstrap is the most popular framework for creating the responsive design of a website. Bootstrap is an open source CSS framework for making fast and simple front-end development. Bootstrap mainly contains HTML and CSS based design templates. It also contains typography, indexes, structures, paths, tables, models, image and more. As CSS framework bootstrap is easy to use with its pre-define class. Overall bootstrap helps to create website responsive.

3.7 Development Requirement:

- 1.Django
- 2.Sqlite

3.7.1 Django:

Django is the well-known most popular python framework. It was Designed by seasoned programmers, Django is a python based open source web framework and it take care of the problems of web creation, so without any hesitate people can concentrate on writing because it has less code, low coupling and rapid development. As a high level language Django gives you more versatile, security, scalable, maintainable website and the code is easy to write.

Advantage Django:

When the terms come development with Django, it gives you this advantage:

1. Django is designed in that way that helps developers make the app faster. From production to production or in a sense Django helps to make it more efficient and effective. So it is an ideal solution for anyone who is focused on the end times.

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2. When it comes to website security Django offer the hardest security. Django ensured that engineers do not make any security-related errors. SQL injection, application fraud across the site, clicking there is one of the most common errors. To effectively manage usernames and passwords, the user's key authentication system is key.
3. The Django operating system includes a lot of extra features to help the user. Like authentication, content management, site maps, RSS feeds. These features help to make the web development process more complete.
4. With the more demanding road demand, the benefits of the Django framework are evident. Therefore, the busiest sites use this method to quickly meet the needs of traffic.

3.7.2 Website pages Information:

1. Registration page for new user / existing users
2. Selected products are placed into cart automatically
3. Complete details of foods, quantity and cost will be shown
4. Users may submit a product rating with comment.
5. Real time nutrition data is added for every product
6. User can see how we collect those foods through video.
7. User can also see the lab test verification result.
8. Faster response.
9. Protection of customers as well as consumers
10. Provide blogs Reviews
11. Easy to check and browse on anywhere

3.8 Use Case Modeling:

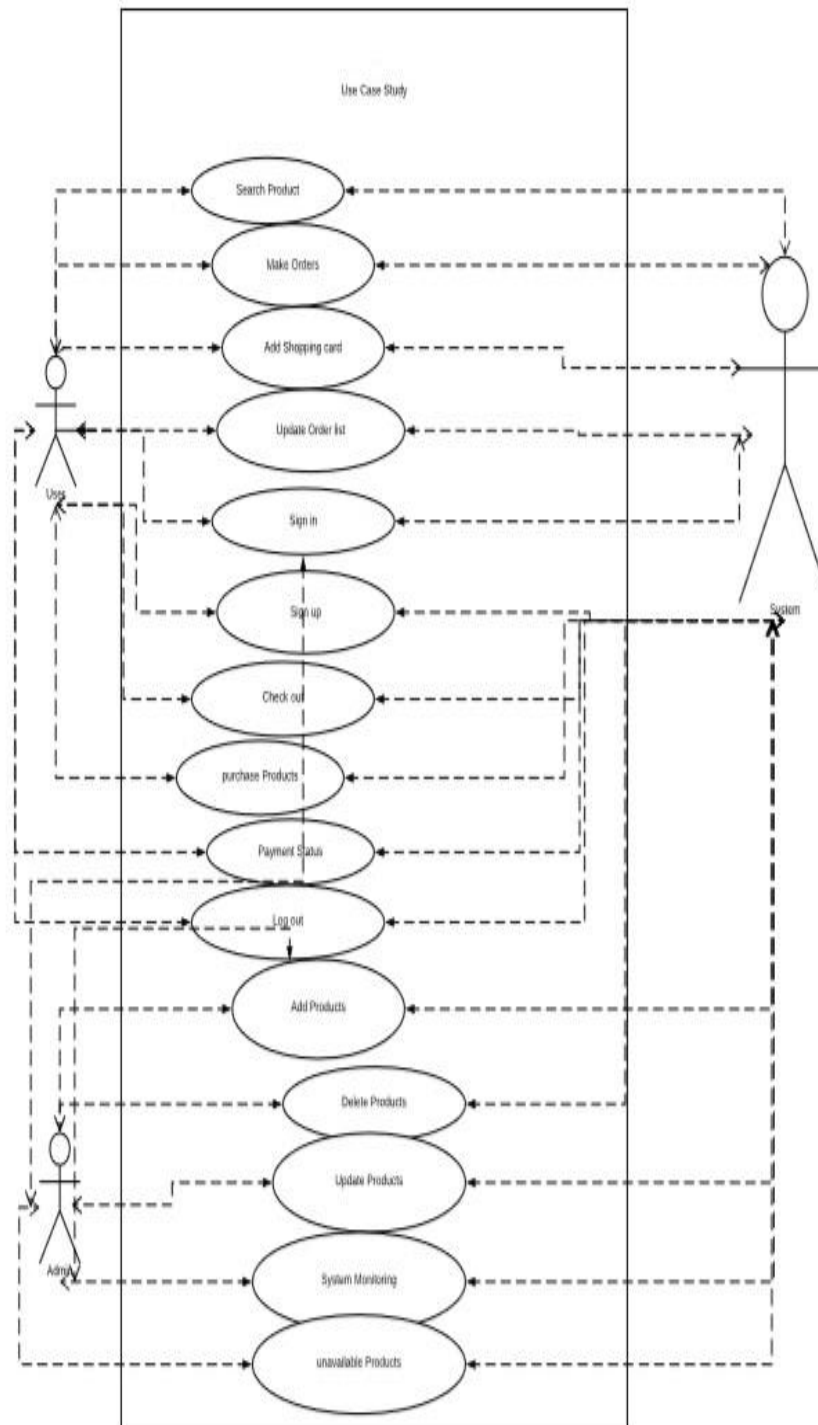


Figure 3.1: Use Case Model of Fresh Farm

3.9 Flow Chart Diagram:

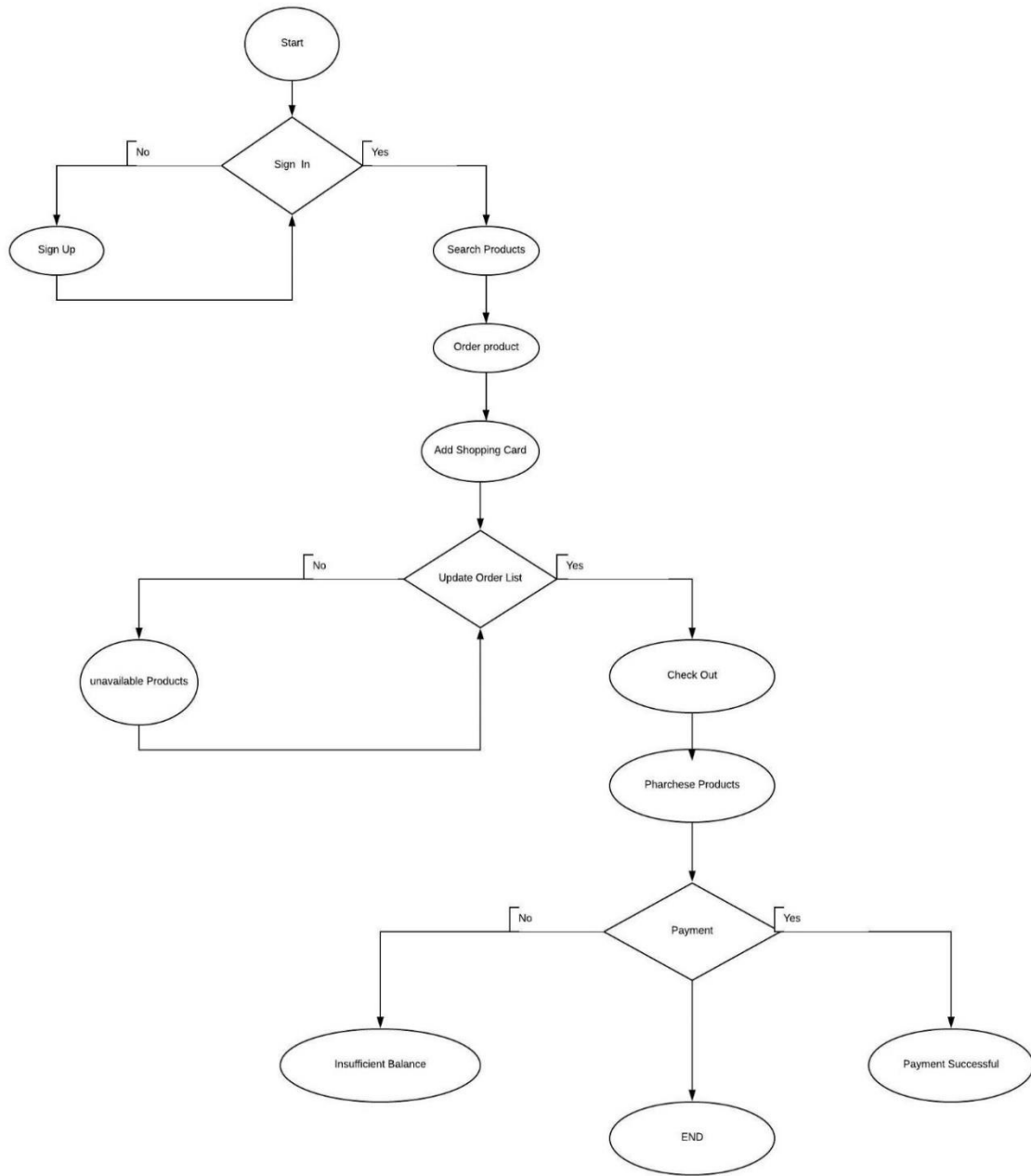


Figure 3.2: Flowchart Diagram of Fresh Farm

3.10 Activity Diagram:

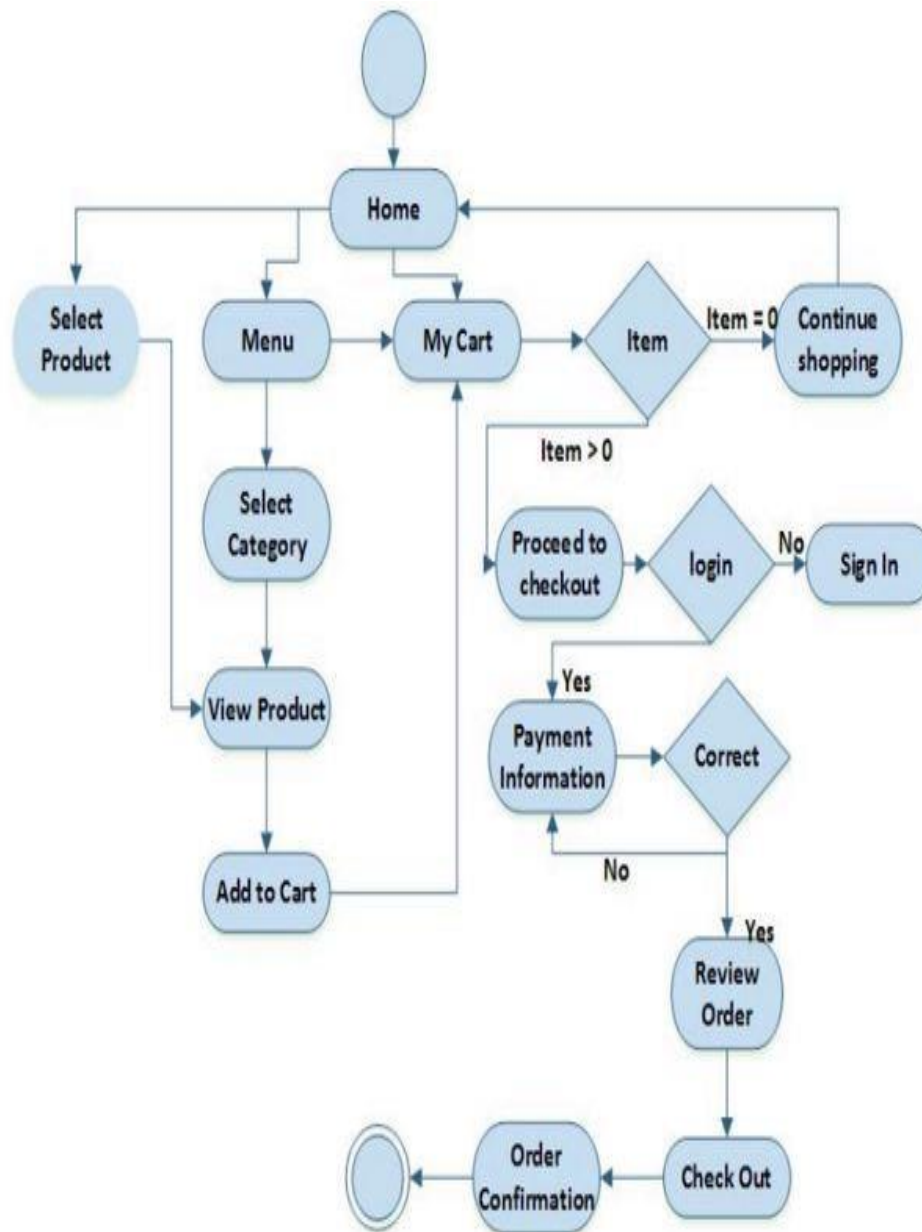


Figure 3.3: Activity Diagram of Fresh Farm

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3.11 Level 0 Data Flow Diagram:

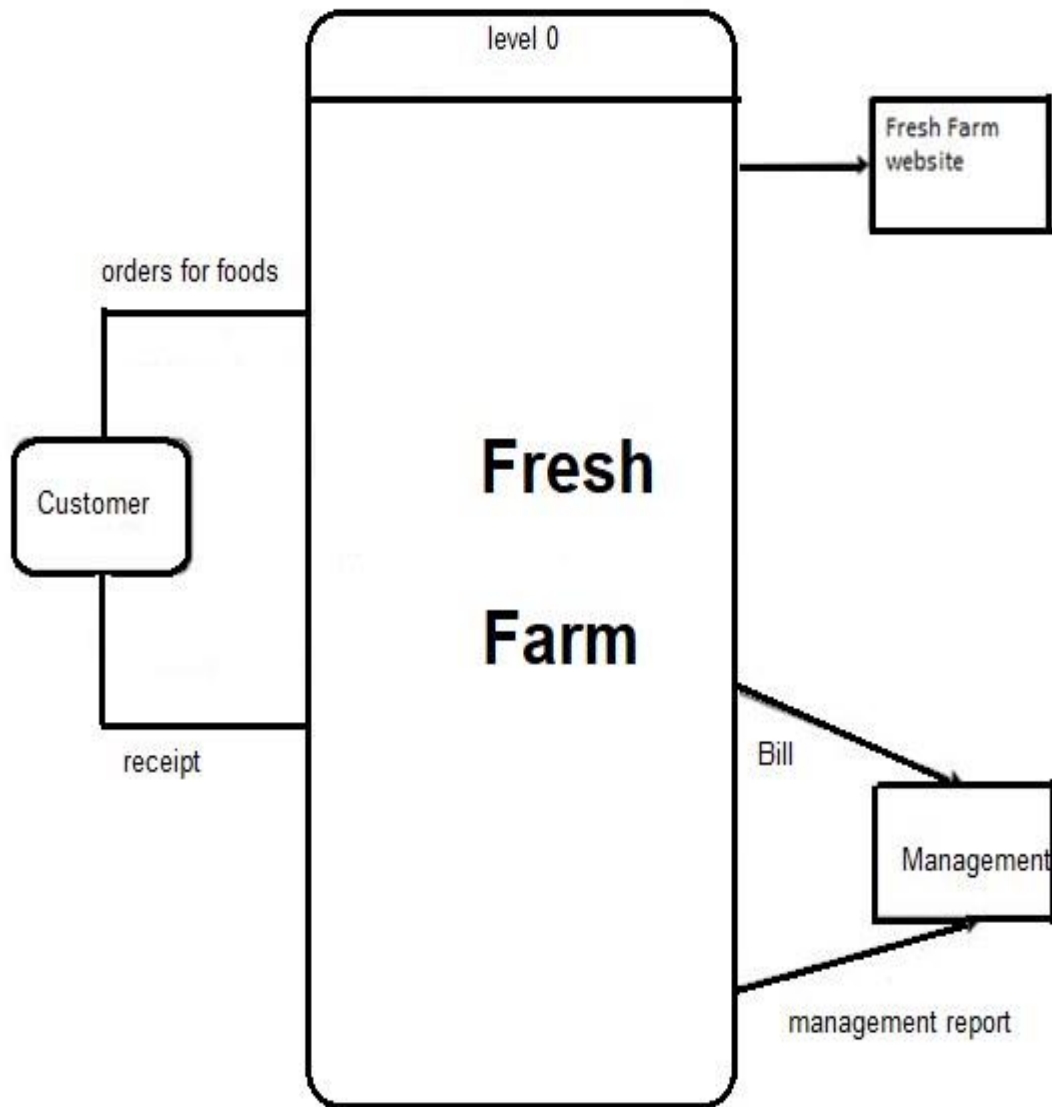


Figure 3.4: Level 0 Data Flow Diagram of Fresh Farm

3.12 Level 1 Data Flow Diagram:

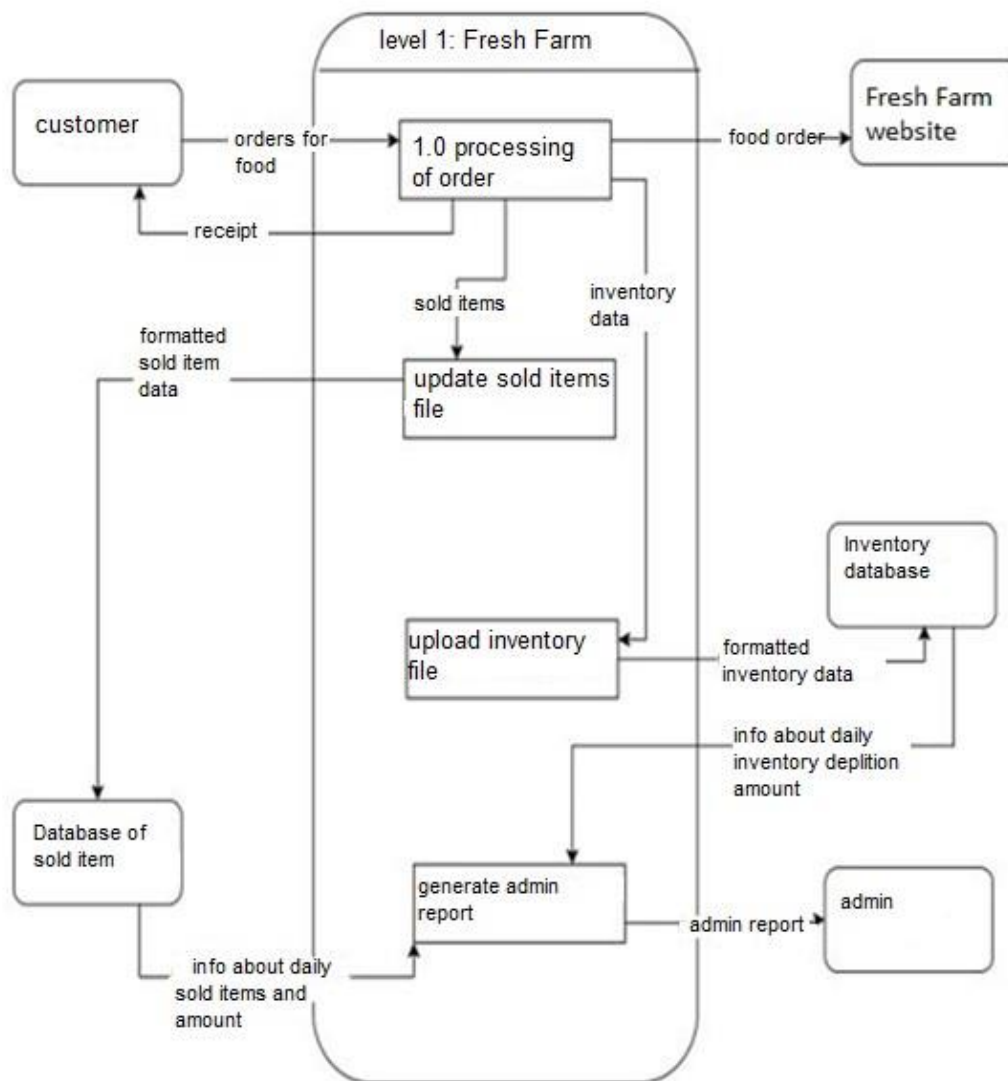


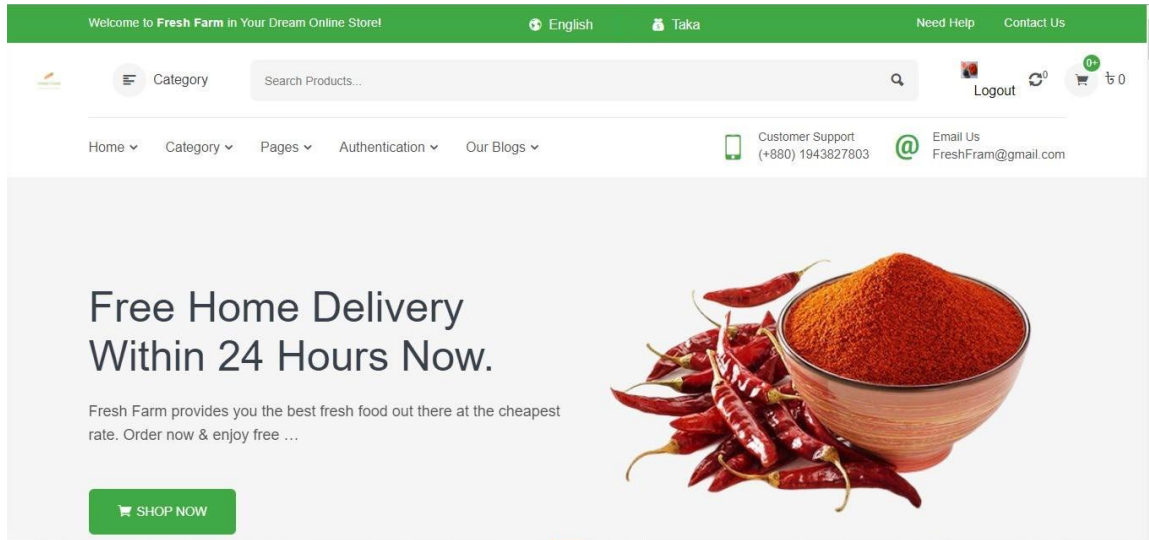
Figure 3.5: Level 1 Data Flow Diagram of Fresh Farm

CHAPTER - 4

DESIGN & DESIGN SPECIFICATION

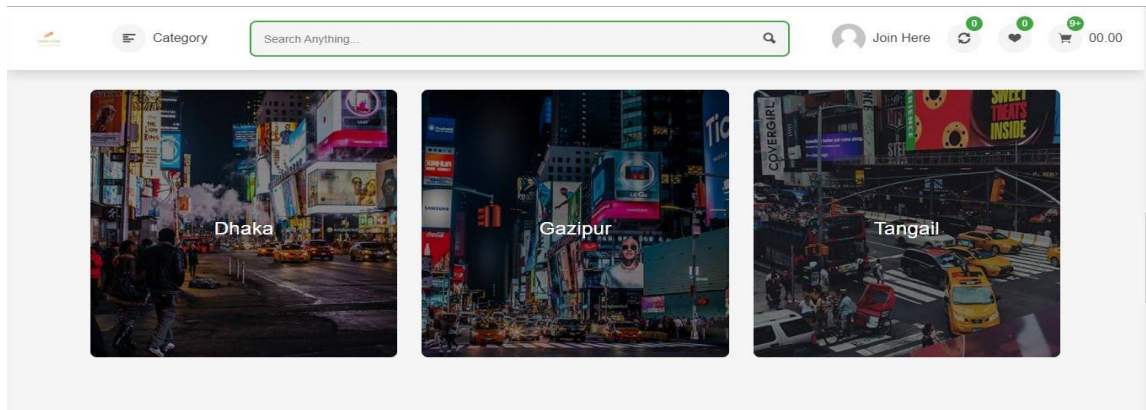
4.1 Font-End Design(UI)

Here, It is the navigation and slider section of the home page. Here user can see the banner with various types of food items, Customer support number and email.



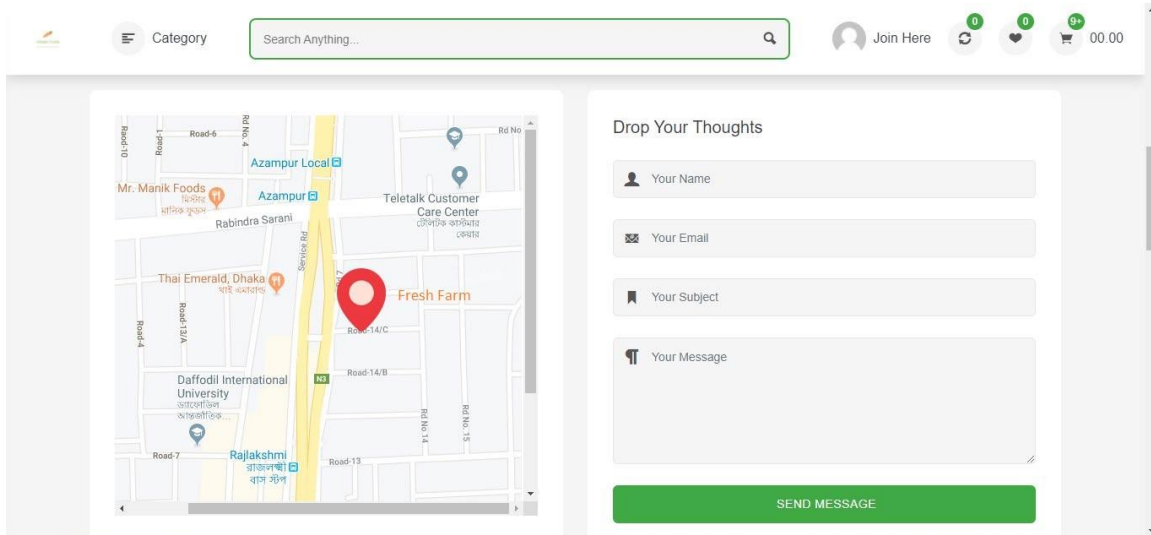
4.1.1 Service Area

Here user can see their location and in which location we provide foods



4.1.2 Sharing Thoughts

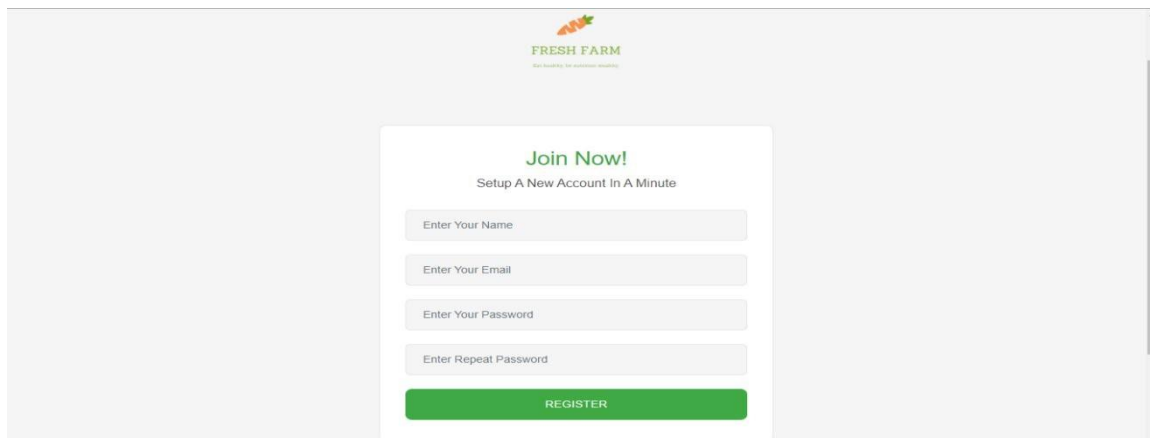
People can share their thoughts about us and they also see the location of our head office.



The screenshot shows a web interface for sharing thoughts. At the top, there is a navigation bar with a 'Category' dropdown, a search bar, and links for 'Join Here', a heart icon, and a shopping cart icon. The main content area is divided into two sections. On the left is a map showing the location of 'Fresh Farm' with a red pin. The map includes labels for various roads and nearby landmarks like 'Azampur Local', 'Teletalk Customer Care Center', 'Thai Emerald, Dhaka', 'Daffodil International University', and 'Rajlakshmi'. On the right is a form titled 'Drop Your Thoughts'. The form has four input fields: 'Your Name', 'Your Email', 'Your Subject', and 'Your Message'. Below these fields is a green button labeled 'SEND MESSAGE'.

4.1.3 User sign Up Page

Register page is required when a new user can enter the website and start ordering.

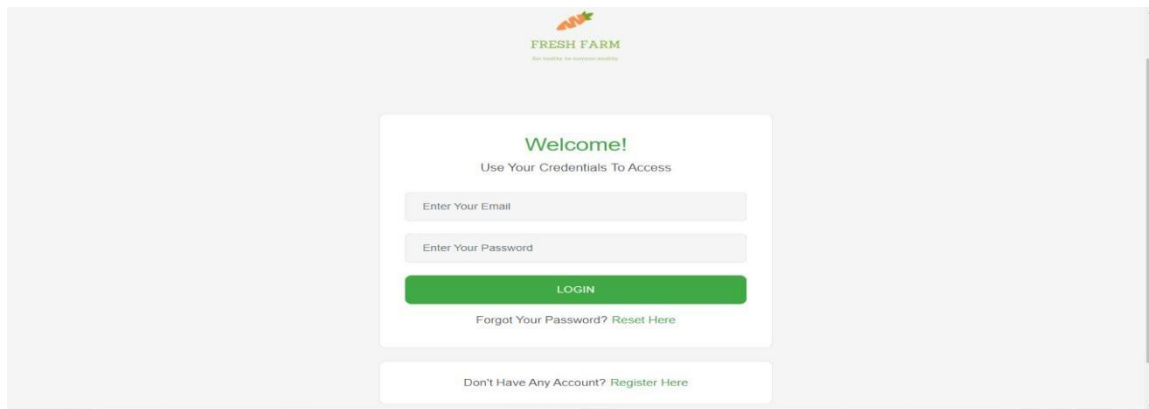


The screenshot shows a registration page for 'FRESH FARM'. The page has a light gray background with the 'FRESH FARM' logo at the top center. Below the logo is a white box containing the registration form. The form is titled 'Join Now!' and has a subtitle 'Setup A New Account In A Minute'. It includes four input fields: 'Enter Your Name', 'Enter Your Email', 'Enter Your Password', and 'Enter Repeat Password'. At the bottom of the form is a green button labeled 'REGISTER'.

4.1.4 User Login Page

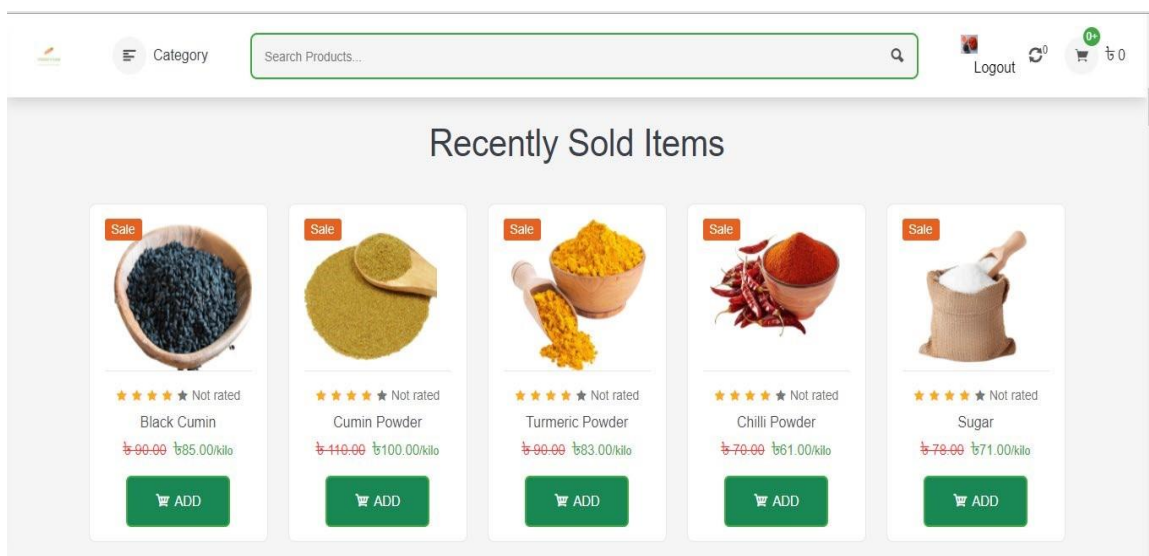
This is user login page. User must login for getting personal user id and getting access inside the website.

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4.1.5 Food List

There are a lots of option for user to choose their desire foods from various categories.



4.1.6 Order Process

Here customer can see their selected products. They can also delete specific product if they want

Serial	Product	Name	Price	Brand	Quantity	Action
1		Turmeric Powder	₹83.00 /kilo	Fresh Farm	1	
Total (Incl. VAT)					₹ 83.00	

4.1.7 Payment Method

Customers Can purchase their desire products through SSLCOMMERZ

Having Problems? Call Support: +880 9612 22 1000

Order Summary

Customer Name: admin1
Merchant: testhimel812n
Transaction ID: 1XD5UWM19Q2
Total (BDT): ₹83.00

Cancel order & return to www.pythonyanywhere.com

Select Payment Method

All Gateways City Bank EBL Skypay

Debit/Credit Cards

VISA MasterCard American Express Rupay FastCash

Mobile Banking

bKash Grameenphone Teletalk AB Direct

Internet Banking

City Bank EBL Sonali Bank AB Direct

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4.2 Backend Design

We are using our own custom made Administrator Board. This panel contains all the aspects of the website. In the admin panel, we view all the details in a simple

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arrangement. We will create, edit and delete any details from the website through administrator board. We just need to sign in to get access to the admin board. When we logged into the administrator panel, we show the dashboard option just for the admin.

4.3 Implementation of Requirement

At first we developed front end. Then we develop back end as well as the database Relation for this software. Therefor we need some Integrated development environment (IDE) with some programming language, markup language, cascading style sheet(CSS) and database. This is an web-based application. So, This application can be used in webbrowser very easily. In the previous we are speaking about HTML, CSS, JavaScript, Bootstrap, Python (Django). We will prepare with our own style. We turn it into a code at the certain level using Html, CSS, Bootstrap and JavaScript. We switch it to the Django format to use Python (Django). In addition, we used to saw many food related website to build an overall structure for designing and development

CHAPTER - 5

SITE IMPLEMENTATION & TESTING

5.1 Database Implementation:

A huge part of this application is based on the built-in Django database. We are seeking to gather knowledge about database to prepare database within a simple division in our undertaking. As we are using Django built-in database we are utilizing the knowledge base of SQ Lite.

5.2 Implementation:

The software architecture system characterizes that system and communicate among them(segments). In the real world, connection can discover everywhere. It's very important to build a system intuitional. As we said before, we are working on some extraordinary component to make our system smooth and completely different from others.

5.3 Integration and Testing:

This stage gathered all the components together in an excellent testing environment, searching for blunders, bugs, and interoperability at that point.

CHAPTER - 6

DISCUSSION & CONCLUSION

6.1 Discussion:

Fresh Farm is an user-friendly e-commerce website. There are also a lot of commercial advantages of it. This website offers our users the ability to find the best fresh product very quickly. Now it is easy to determine which items users choose to put an order from the list of products seen on this website by the list of views. Moreover, for those people who want fresh food can order very quickly over the internet, it has unique advantages. On the other hand, there are certain problems. For now, we cannot offer all the fresh food out there to our customer now. We cannot compromise about the freshness of our food. We cannot afford advertising a new offer to a customer via mail if they do not have an account on this platform. Right now we cannot give offer card our customer for some technical issue. In present we are just implementing SSL ECOMMERCE for our customer. In near future we are coming with more payment method option. We are working on these issues.

6.2 Conclusion:

This project offers all manner of services to a customer who wants to be pleased with. Via this project, people will get fresh food and they know about the benefit of the fresh food for our health. This offers all the facilities that can provide a consumer with demand and loyalty as a unique website. This website is unique because of the real time nutrition fact and lab test verification. So, if we add any more unique functionality to this website, it will become an outstanding website. It will be at maximum level of user-friendly. This website's potential task is to market this website internationally as well as in this country for the awareness of food adulteration and the benefit of fresh food. Since it handles all the demand and customer friendliness of all clients, It is obvious that we are going to try to create a fully interactive website that can work for all user preferences.

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Thank You
