



EAST WEST UNIVERSITY

A/2 Jahurul Islam Avenue, Jahurul Islam City
Aftabnagar, Dhaka-1212, Bangladesh

Course Title: Web Programming

Course Code: CSE 479

Semester: Fall 2022

Project Name: Organic Orchard

Project Members

Name	Student ID
Syeda Tamanna Sheme	2018-2-60-010
Md. Abul Kasham	2018-1-60-108@std.ewubd.edu
Saniat Injam	edu2017-3-60-093@std.ewubd.edu

Course Faculty

Md Mohsin Uddin

Senior Lecturer

Department of Computer Science and Engineering

East West University

Table of Contents

Section 1: Introduction	1
Section 2: Model View Controller Diagram (MVC Diagram)	4
Section 3: Non-Functional Requirements	5
Section 4: Functional Requirements	6
Section 5: Technologies	7
Section 6: Git History	9
Section 7: Debugging	9
Section 8: GUI Screen Shot	11
Section 9: Database Screen Shot	21
Section 10: Future Plan	23
Section 11: Conclusion	23

SECTION 1: Introduction: Problem Definition, Motivation, and Challenges

1. Introduction

This document's main goal is to give a thorough overview of our software product, including its specifications and objectives. The target audience, user interface, and hardware and software specifications for the project are all specified in this document. By precisely outlining the problem statement, this document intends to collect, analyze, and provide an in-depth insight into the entire online grocery product Selling, Buying, payment, and gaining an idea about grocery products. This paper contains a list of all the specific requirements for the Organic Orchard.

1.1. Problem definition

By putting buyers and sellers in one location, we are automating the supermarket bazaar. Dealers can add information about their grocery products. There is also a preview of all required features. Customers can search for any product based on the features they need. Users can examine customer reviews and reputation updates for the dealer. We also include a "about us" and "contact us" page so that people can learn more about us, get in touch with us, and share their opinions about our products. Users can save time and money by using this website.

The purpose of this document is to describe the requirements for users to buy and sell grocery products. Our project Organic Orchard includes dealing between sellers and buyers. Our website has the facility to give a unique id for every user and details of every user and the staff automatically. It includes a search facility to know the current status of each related website. Users can search availability of a deals-related website using the id. The user can be entered using a username and password. It is accessible either by a seller or buyer. User can enter their requirements, which actually describes what the user wants. The data can be retrieved easily. The interface is very user-friendly. The data are well protected for personal use and make the data processing very fast.

1.2. Motivation

The proposed website is Organic Orchard. In order to store the data for later use, the system will be utilized to collect information from the users. The current procedure is a paper-based procedure. It moves too slowly and is unable to give information about current users. The system's goals are to decrease overtime pay and boost the number of users who can receive accurate care. This document contains functional and non-functional requirements statements. We're going to create a project online so that clients can simply find out information about purchasing and selling supermarket items. Additionally, because senior individuals find it difficult to shop offline, they can profit from this service.

The main purpose of this web application is to provide an online grocery showroom and to allow users to book products online. Customers can sign up for this platform and use their login credentials to book products. The administrator is the device's primary operator, and he or she will input personnel and new product information. There are some grocery websites in Bangladesh but the numbers are very low. Because our country is still developing, many individuals are unaware of auto buying and selling methods, as well as which food is best for them based on their budget. Also included are the grocery product System and the online payment and home-delivery system. As a result, our system will assist in resolving all of these issues.

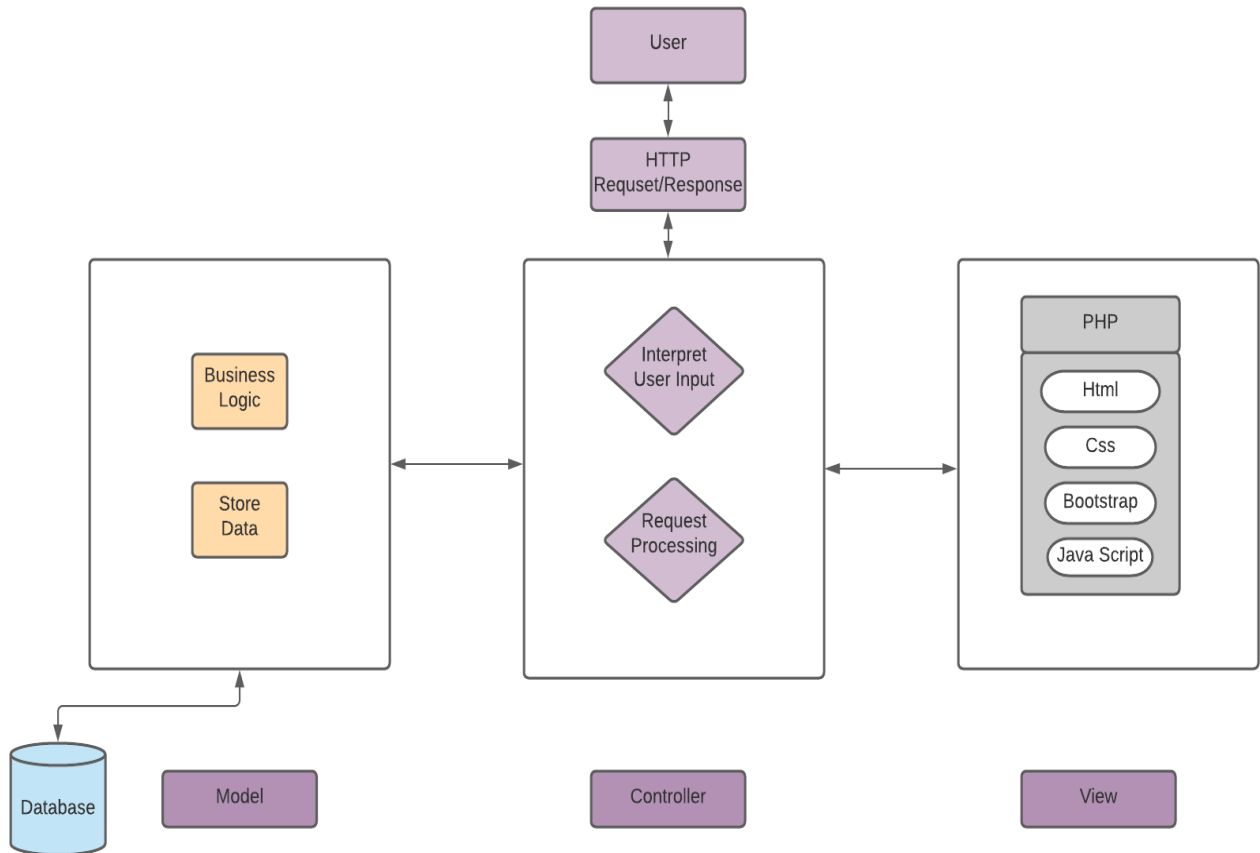
1.3. Business Model

We have two main users on our website: general people and admin. Those who register and purchase grocery products three consecutive times on our website will receive a bonus discount. Furthermore, each regular user and customer who take our service will receive free service for the first three sessions. Our system also includes a home delivery service, allowing any user to pay cash on the delivery system. If a customer buys products from our website more than five times, he or she will receive a 2% discount.

1.4. Challenges

- ❖ In the face of the pandemic, we, those who are responsible to develop the software will not be able to go out and communicate with different people to see what potential users may actually want from this system. So, all we were able to do is brainstorm and decide on as many features as we can to include in this system.
- ❖ This software system is quite a large project. We were able to brainstorm a lot of features that we wanted to include in this project. However, due to the limited number of team members and limited time, we will not be able to include all the possible features in this system before the project deadline.
- ❖ The language and framework that are going to be used are fairly new to us, the software developers. So, it will take some time for the team members to get familiar with the new language and framework used, that is PHP.
- ❖ We have to make sure that the user interface is not too technical so that all the users find it easy to use.
- ❖ Since this project is entirely team-driven, we lack any client or upper-management feedback. Lacking well-defined client requirements will make the development process a little more difficult.
- ❖ Our team members are eager to work in a professional environment. This leads us to use a Version control system such as Git. Our team members are unfamiliar with it but we will try our best to exploit all the functionalities Git can offer.
- ❖ Furthermore, we would like to create an API to improve the reusability of our developed codes.

SECTION 2: Model View Controller (MVC)



SECTION 3- Non-Functional Requirements

3.1. User-Friendly Interface

The software system's user interface (UI) is made as user-friendly as possible so that all the users can easily use the system. The user interface is intuitive. All new web users are able to complete our website registration without any difficulties.

3.2. Hardware Interface

The hardware has the ability to read the profile of sellers and buyers, assistance is given wherever users need it, ability to access multiple modes.

3.3. Interface with modern design:

Not only the user interface is friendly but also it has a modern design. Besides, our website is responsive for any device. Users can use it on their mobile, tab, laptop, or desktop very easily.

3.4. Security and Privacy

We focused on website privacy and security. There is no way to misused user data in any way. So, the privacy of the users is protected at all costs and the software has a secure system. Users' accessibility is censured in all ways. Users are advised not to share their passwords with anyone.

3.5. Maintenance

The website is designed in such a way that changes can be made easily. Only admins are allowed to connect the website for maintenance.

SECTION 4: Functional requirements: Detailed Scenario-Based Description

4.1. Sign up and Registration: There are two types of users who can sign up and register in this software system. Based on the type of user, information needs to be entered:

General Users: General users can create an account, log in, or log out of the website. They can also see the home page, contact us, and about us section. Also, users can buy and order. They can view their shopping basket, make a payment, and check the status of their order and payment.

Scenario: A person comes and tries to sign up as a general user. He or she needs to enter the following information:

- Full name
- Email Address
- Password
- Confirm Password
- A photo

Admin: All product updates, payment confirmations, and user confirmations are accessible to admins. An admin can create several admins. When the website was created, administrators were formed. It generates itself. An admin can also create an admin from the database. For making an admin, the admin needs to change the user-type table in the database, and after that, a user will also become an admin. Thus, the admin is not required to register. Only the admin is able to log in directly.

Scenario: Admin needs to give the following information for registration:

- Full name
- Email Address
- Password
- Confirm Password
- A photo

4.2. User Verification during Sign up or log in:

Whenever users register in this system, the admin will verify the user, and only then will the users have full access to all the features of the system.

Scenario-1: User tries to sign up for the first time:

The user will first need to state what type of user he or she is. Then, according to the type of user, he or she needs to enter all the required information. Verification of users is done on the basis of the user type:

Scenario-1(a): What happens when the user enters a username, and password with which a user is already registered?

- ➔ The user can not register since the same username, and password for two users will not be allowed.

Scenario-1(b): What happens when the user enters a unique phone number, username, and password?

- ➔ The user is successfully registered into the software system.

Scenario-1(c): What happens when a user successfully enters all the valid information?

- ➔ The user must be verified by the admin and only then they will be allowed to access the rest of the user-specific features.

4.3. User Verification During Login:

Whenever a verified user tries to log in, the system will check whether the correct username and password are entered.

Scenario 2: If a user tries to log in, he needs to enter his username and password. The system will then verify if the user really exists:

Scenario-2(a): What happens if the entered username and password are valid?

- ➔ If the username and password are valid, the user can access other user-specific features.

Scenario-2(b): What happens if the entered username and password are not valid?

- ➔ If the username and password are not valid, he will not be allowed to access the user-specific features and will be asked to enter the correct information again.

4.4. User-Specific Features - Buy:

On our website, customers can select and purchase things. Vegetables, fruits, meat, and fish are the four primary groups into which the products are subdivided. Users can add products to their cart, choose a product from the cart, delete a product from the cart, or confirm a specific product. Customers may purchase products in any number.

4.5. User-Specific Features - Order:

Users can select any product in any number, but they must confirm their order after making their selections. The user must go to the cart and enter the correct information for home delivery in order to confirm the order. Users of the order page can view information about their order, including the date it was placed as well as their Name, Email, Address, Payment Method, Orders, Total Price, and Payment Status.

4.6. User-Specific Feature - Cart:

In the cart section, section user can see which product is chosen and, in this section, the user can increase or decrease his product quantity. Also, users can see the total amount, can also delete products, continue shopping and proceed to the checkout.

4.7. User-Specific Feature - Profile:

User can set their profile by providing an image, name, email, and phone number. If any user tries to register using the same email address, he will not be able to do that.

4.8. User-Specific Feature – Contact Us and About Us

Users can see the contact us page. On the about us page, users can know about our services, also they will be able to know our benefits of us. In addition, they can also see the client's review. On the contact, us page users can contact us by providing their name, email, phone number, and message.

4.9. Free Roaming Scenarios:

Even if a user is not logged in, he or she will have the option to freely roam the site, visit others' profiles to see if anyone is eligible for donation, or visit some created posts.

4.10. Admin Features:

- **Home:** On the admin home page, the admin can see the dashboard. In the dashboard, section users can see the total pending order, completed orders, total messages, total users, and earned amount.
- **Products:** In the product, section admin can add new products and delete products.
- **Orders:** On the order, page user can confirm the pending orders by observing all detailed information.
- **Users:** In the user's section, users can see how many user register or log into the webpage.
- **Messages:** In the message section, the user can see the message which was sent by the users.

Section 5: Technologies - Programming Language, Database, Others

- ❖ **Programming language:** The programming language that is used in the backend of this software system is PHP. It is one of the most popular and widely used programming languages in the world.
- ❖ **Database:** For the database, MySQL is used to store all the information. MySQL is a relational database management system (RDBMS) based on Structured Query Language (SQL). MySQL is renowned for being the most secure and reliable database management system used in web applications. Not only this, MySQL can be relied upon to make high-performance websites to ensure optimum speed.
- ❖ **Frontend:** For the front end, Bootstrap, HTML, and CSS are used to make the website responsive and mobile-first. So, users can access all features on all devices. JavaScript is also used to make the website interactive.
- ❖ **IDE/Editor:** Sublime Text, Visual Studio.
- ❖ **Version Controlling System:** Git.

Section 6: Debugging

Debugging is an essential part of software application development. To remove the faults and make the application clean debugging process is very much required. If bugs are present in the application, it can drastically affect app performance and may even cause freeze and crash. While developing our project on VS Code, which has a number of automated debugging tools were at our disposal. But we did not essentially rely on those tools. We simply tried to understand what is happening in each line of code when facing difficulties. We also use the console panel to check and modify the code. The Browser Console is like the Web Console but applied to the whole browser rather than a single content tab. So, it logs the same sorts of information as the Web Console - network requests, JavaScript, CSS, security errors and warnings, and messages explicitly logged by JavaScript code.

Section 7: Git History

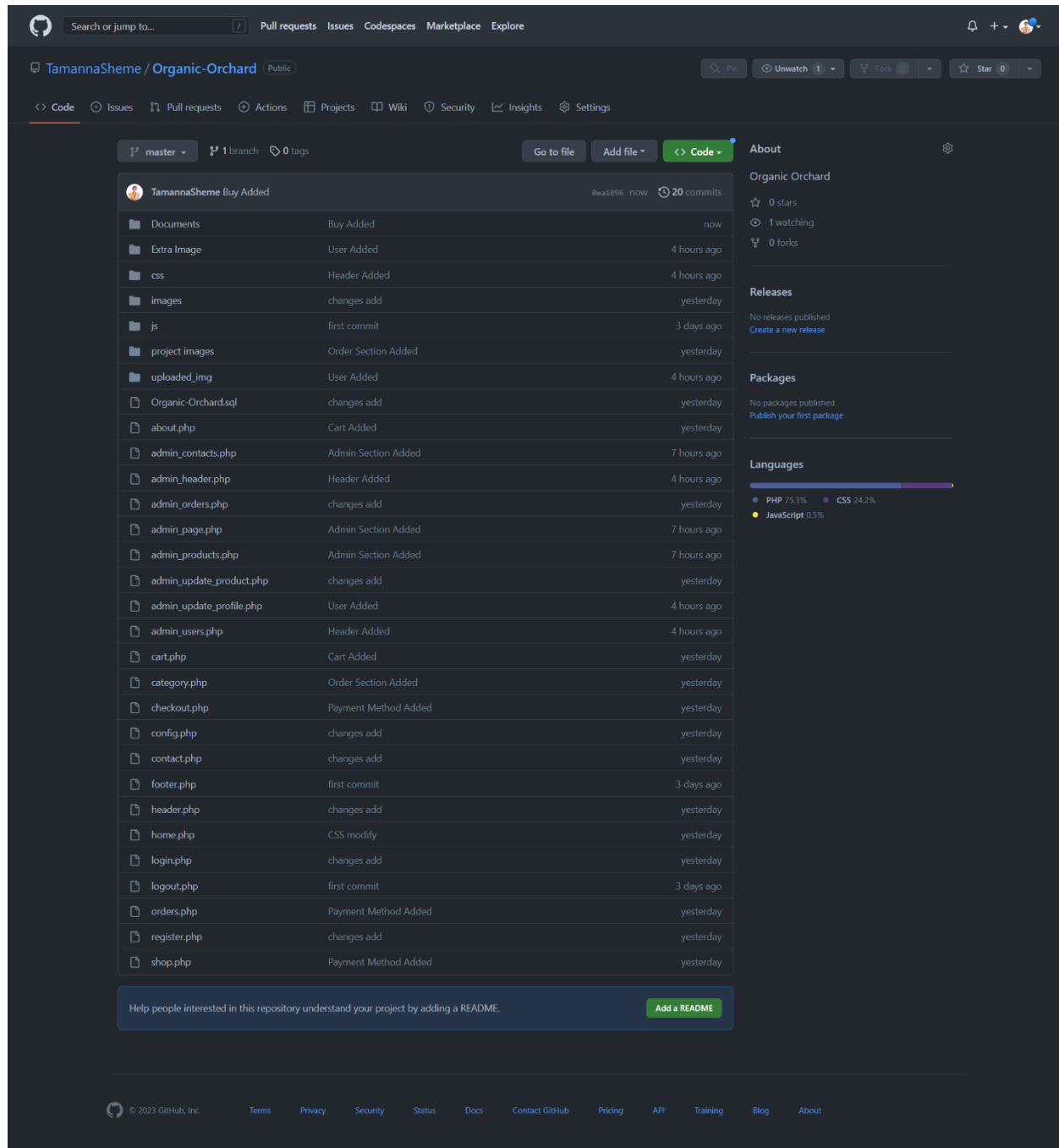
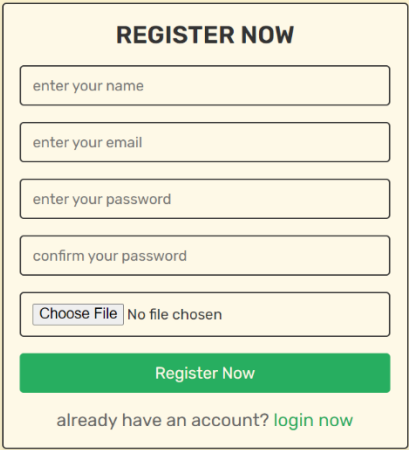


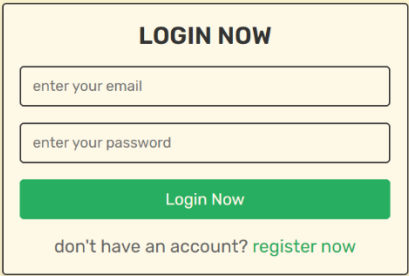
Figure: GitHub History

Section 8: GUI Screenshot



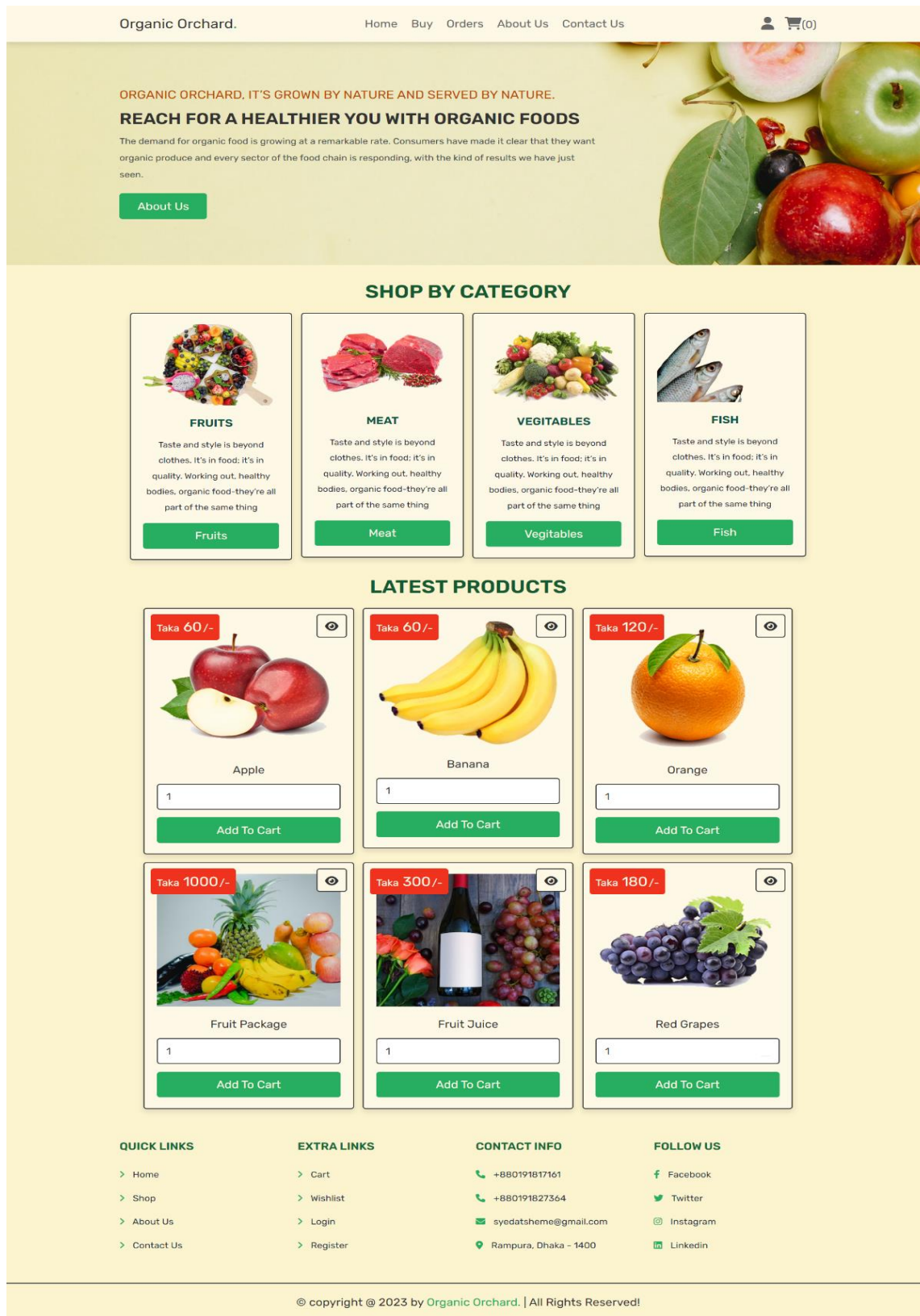
A registration form titled "REGISTER NOW" is centered on a light yellow background. The form is a white box with a thin black border. It contains five input fields: "enter your name", "enter your email", "enter your password", "confirm your password", and a file upload field with a "Choose File" button and "No file chosen" text. Below these is a green "Register Now" button. At the bottom, it says "already have an account? [login now](#)".

GUI Screen Shot: Organic Orchard Registration Page



A login form titled "LOGIN NOW" is centered on a light yellow background. The form is a white box with a thin black border. It contains two input fields: "enter your email" and "enter your password". Below these is a green "Login Now" button. At the bottom, it says "don't have an account? [register now](#)".

GUI Screen Shot: Login Page



GUI Screen Shot: Organic Orchard Home Page



WHY CHOOSE US?

It's our attention to the small stuff, scheduling of timelines and keen project management that makes us stand out from the rest. You want results. We have found that the best way to get them is with up front research – of your company, competitors, target market and customer psychographics. Only after we fully understand you and your customers, do we recommend a plan of attack.

[Contact Us](#)


WHAT WE PROVIDE?

We provide young people with development and networking opportunities in their mediation practice. We also support peer mediation services in schools and organisations and promote the sustainability of peer mediation programmes. Furthermore being a member of the network has other perks as well – see below for details.

[Our Shop](#)

CLIENTS REIVEWS



Amazing food. PERIOD. Service is always perfect, food is always on point, and the staff is very friendly and accommodating. Always looking forward to this place with my friends, the fried vanilla ice cream is exceptionally good!



john deo



Amazing food. PERIOD. Service is always perfect, food is always on point, and the staff is very friendly and accommodating. Always looking forward to this place with my friends, the fried vanilla ice cream is exceptionally good!



Sakib Al-Hasan



LAmazing food. PERIOD. Service is always perfect, food is always on point, and the staff is very friendly and accommodating. Always looking forward to this place with my friends, the fried vanilla ice cream is exceptionally good!



Md. Mohsin Uddin



Amazing food. PERIOD. Service is always perfect, food is always on point, and the staff is very friendly and accommodating. Always looking forward to this place with my friends, the fried vanilla ice cream is exceptionally good!



Sadika Islam Sneha



Amazing food. PERIOD. Service is always perfect, food is always on point, and the staff is very friendly and accommodating. Always looking forward to this place with my friends, the fried vanilla ice cream is exceptionally good!



Tamanna Sheme



Amazing food. PERIOD. Service is always perfect, food is always on point, and the staff is very friendly and accommodating. Always looking forward to this place with my friends, the fried vanilla ice cream is exceptionally good!



Syed Nazmus Sakib

QUICK LINKS

- > Home
- > Shop
- > About Us
- > Contact Us

EXTRA LINKS

- > Cart
- > Wishlist
- > Login
- > Register

CONTACT INFO



- ☎ +880191817161
- ☎ +880191827364
- ✉ syedatsheme@gmail.com
- 📍 Rampura, Dhaka - 1400

FOLLOW US

- f Facebook
- 🐦 Twitter
- @ Instagram
- in LinkedIn

Organic Orchard.

HomeBuyOrdersAbout UsContact Us

 (0)

GET IN TOUCH

Enter your name

Enter your email

Enter your number

Enter your message

Send Message

QUICK LINKS

> Home

> Shop

> About Us

> Contact Us

EXTRA LINKS


> Cart


> Wishlist


> Login


> Register

CONTACT INFO


 +880191817161


 +880191827364


 syedatsheme@gmail.com


 Rampura, Dhaka - 1400

FOLLOW US

 Facebook

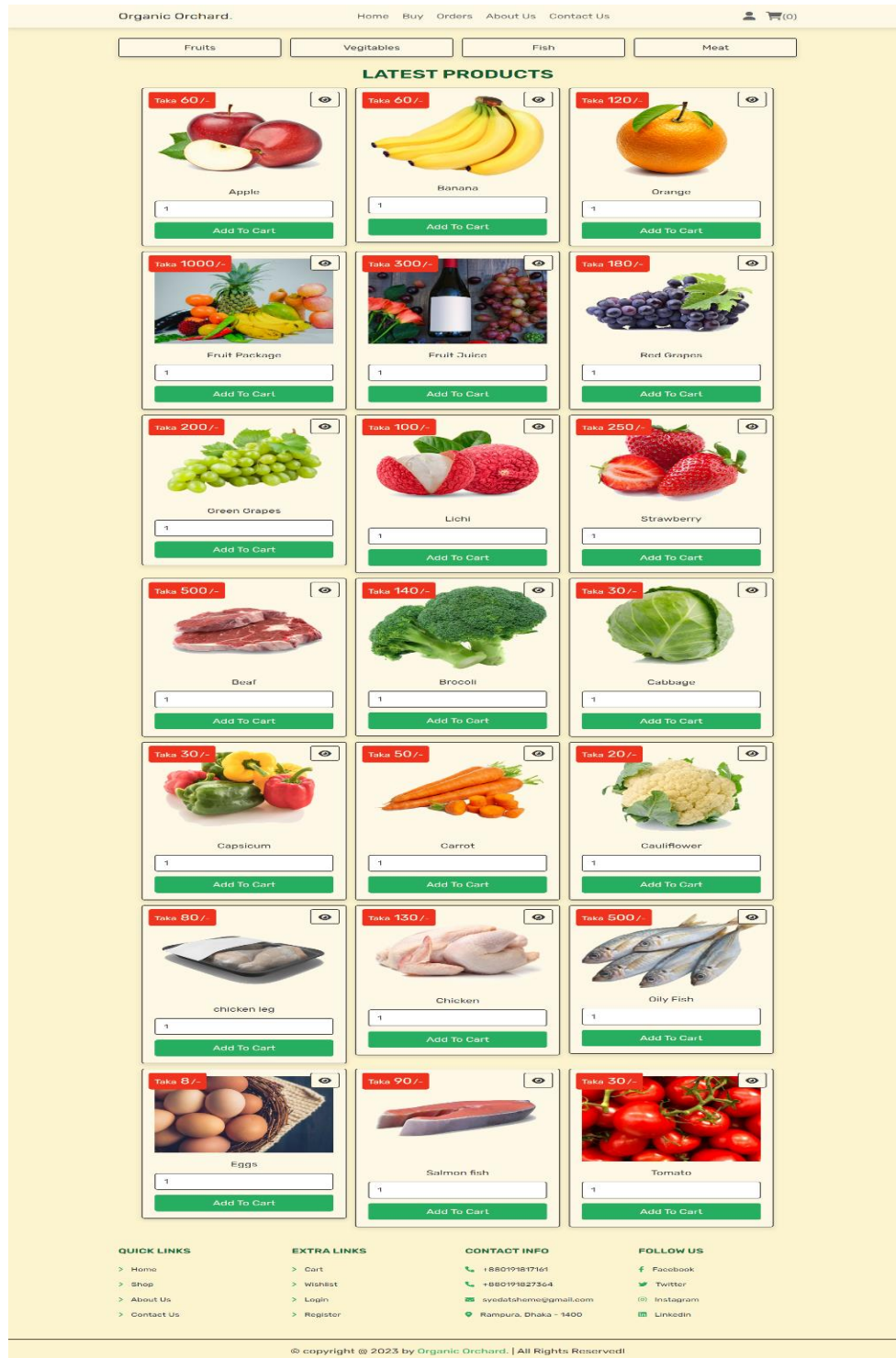
 Twitter

 Instagram

 LinkedIn







© copyright @ 2023 by Organic Orchard. | All Rights Reserved!

GUI Screen Shot: Contact Us Page



GUI Screen Shot: Buy Page

PRODUCTS ADDED

 Brocoli Taka 140/- <input type="text" value="1"/> <input type="button" value="Update"/> Total : Taka 140/-	 Capsicum Taka 30/- <input type="text" value="1"/> <input type="button" value="Update"/> Total : Taka 30/-	 Oily Fish Taka 500/- <input type="text" value="1"/> <input type="button" value="Update"/> Total : Taka 500/-
 Tomato Taka 30/- <input type="text" value="1"/> <input type="button" value="Update"/> Total : Taka 30/-	 Banana Taka 60/- <input type="text" value="1"/> <input type="button" value="Update"/> Total : Taka 60/-	 chicken leg Taka 80/- <input type="text" value="1"/> <input type="button" value="Update"/> Total : Taka 80/-
<div>Total : Taka 840/-</div> <div><input type="button" value="Continue Shopping"/></div> <div><input type="button" value="Delete All"/></div> <div><input type="button" value="Proceed To Checkout"/></div>		

QUICK LINKS

- [Home](#)
- [Shop](#)
- [About Us](#)
- [Contact Us](#)



EXTRA LINKS

- [Cart](#)
- [Wishlist](#)
- [Login](#)
- [Register](#)

CONTACT INFO

-  +880191817161
-  +880191827364
-  syedatsheme@gmail.com
-  Rampura, Dhaka - 1400

FOLLOW US

-  Facebook
-  Twitter
-  Instagram
-  LinkedIn

Organic Orchard.
Home Buy Orders About Us Contact Us

(6)

Brocoli (\$140/- x 1)

Capsicum (\$30/- x 1)

Oily Fish (\$500/- x 1)

Tomato (\$30/- x 1)

Banana (\$60/- x 1)

chicken leg (\$80/- x 1)

Total : Taka 840/-

PLACE YOUR ORDER

Your Name :

Anzuman Ara

Your Mobile Number :

0192345688

Your Email :

shemesyedatamanna@gmail.com

Payment Method :

Credit card

Your Address :

jatrabari

City :

dhaka

Place Order

QUICK LINKS

> Home

> Shop

> About Us

> Contact Us

EXTRA LINKS

> Cart

> Wishlist

> Login

> Register

CONTACT INFO

+880191817161

+880191827364

syedatsheme@gmail.com

Rampura, Dhaka - 1400

FOLLOW US

Facebook

Twitter



Instagram

Linkedin

© copyright @ 2023 by Organic Orchard. | All Rights Reserved!

GUI Screen Shot: Cart Page

17 | Page

Organic Orchard.
Home Buy Orders About Us Contact Us
  (0)

PLACED ORDERS

Placed On : 01-Jan-2023
Name : Zara
Mobile Number : 12345678
Email : tamanna.sheme@programming-hero.com
Address : Rampura Dhaka
Payment Method : cash on delivery
Orders : , Banana (1), Oily Fish (1), Salmon fish (1), Beaf (1), chicken leg (1), Broccoli (1), Cabbage (1), Apple (1)
Total Price : \$1460/-
Payment Status : pending

Placed On : 01-Jan-2023
Name : Zara
Mobile Number : 56780987655
Email : tamanna.sheme@programming-hero.com
Address : Rampura Dhaka
Payment Method : cash on delivery
Orders : , Apple (1), Oily Fish (1), Capsicum (1), Broccoli (1)
Total Price : \$730/-
Payment Status : completed

Placed On : 01-Jan-2023
Name : Zara
Mobile Number : 12345678
Email : tamanna.sheme@programming-hero.com
Address : Rampura Dhaka
Payment Method : cash on delivery
Orders : , Apple (1), Red Grapes (1), Strawberry (1)
Total Price : \$490/-
Payment Status : completed

QUICK LINKS

- > Home
- > Shop
- > About Us
- > Contact Us

EXTRA LINKS

- > Cart
- > Wishlist
- > Login
- > Register

CONTACT INFO


- +880191817161
- +880191827364
- syedatsheme@gmail.com
- Rampura, Dhaka - 1400

FOLLOW US

- Facebook
- Twitter
- Instagram
- Linkedin

© copyright @ 2023 by Organic Orchard. | All Rights Reserved!

GUI Screen Shot: Detail Ordered Page

Organic Orchard. Admin Panel
Home Products Orders Users Messages


DASHBOARD

Taka 4370/-

Total Pendings

See Orders

Taka 7382/-

Completed Orders

See Orders

14

Orders Placed

See Orders

22

Products Added

See Products

6

Total Users

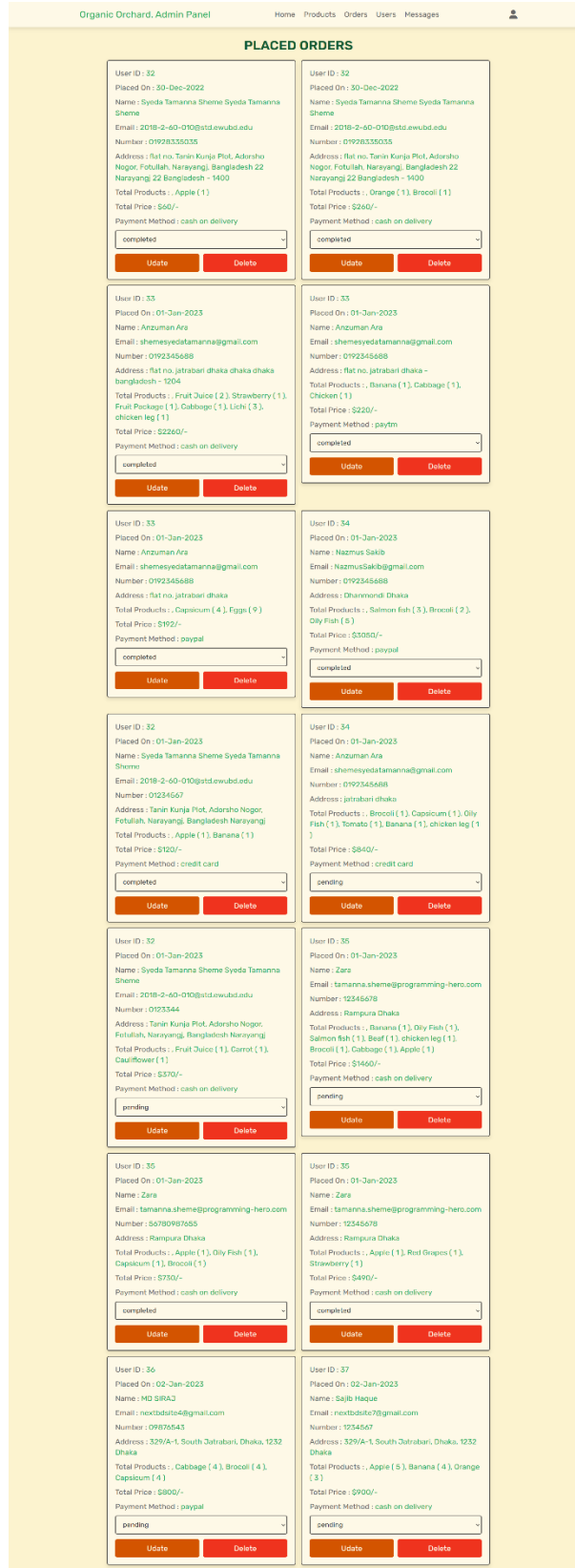
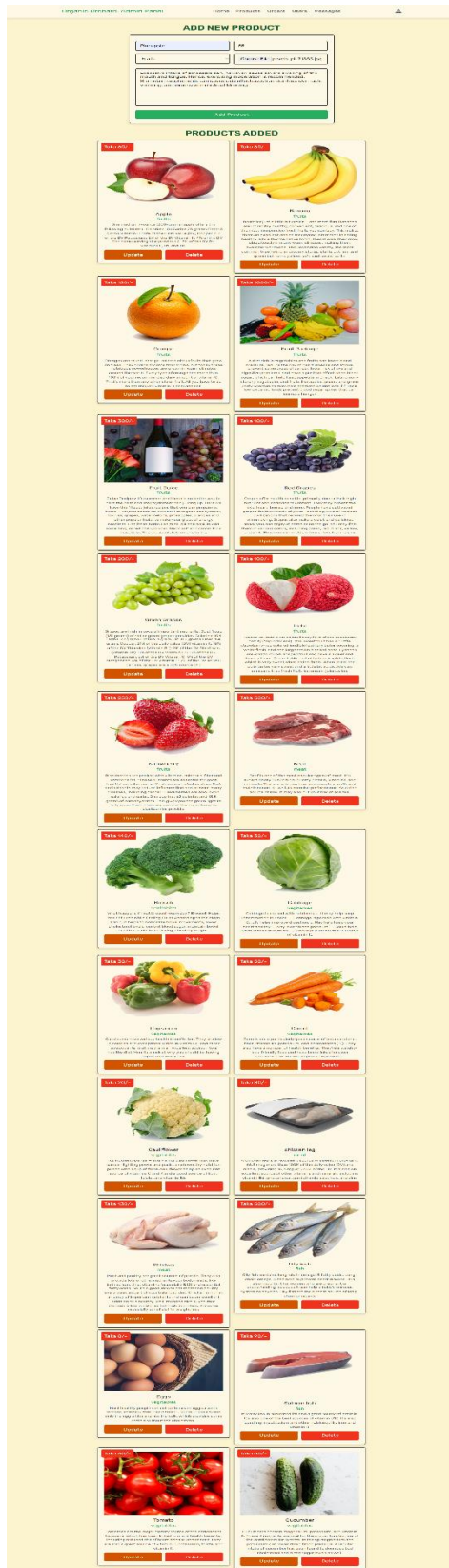
See Accounts

4

Total Messages

See Messages

GUI Screen Shot: Admin Dashboard Page



GUI Screen Shot: Product add Page and Order placed Page



USER ACCOUNTS



User ID: 32

Username : Syeda Tamanna Sheme

Email : admin01@gmail.com

User Type : user

Delete



User ID: 33

Username : Anzuman Ara

Email : shemesyedatamanna@gmail.com

User Type : user

Delete



User ID: 34

Username : Nazmus Sakib

Email : NazmusSakib@gmail.com

User Type : user

Delete



User ID: 35

Username : Zara

Email : tamanna.sheme@programming-hero.com

User Type : user

Delete



User ID: 36

Username : MD SIRAJ

Email : nextbdsite4@gmail.com

User Type : user

Delete



User ID: 37

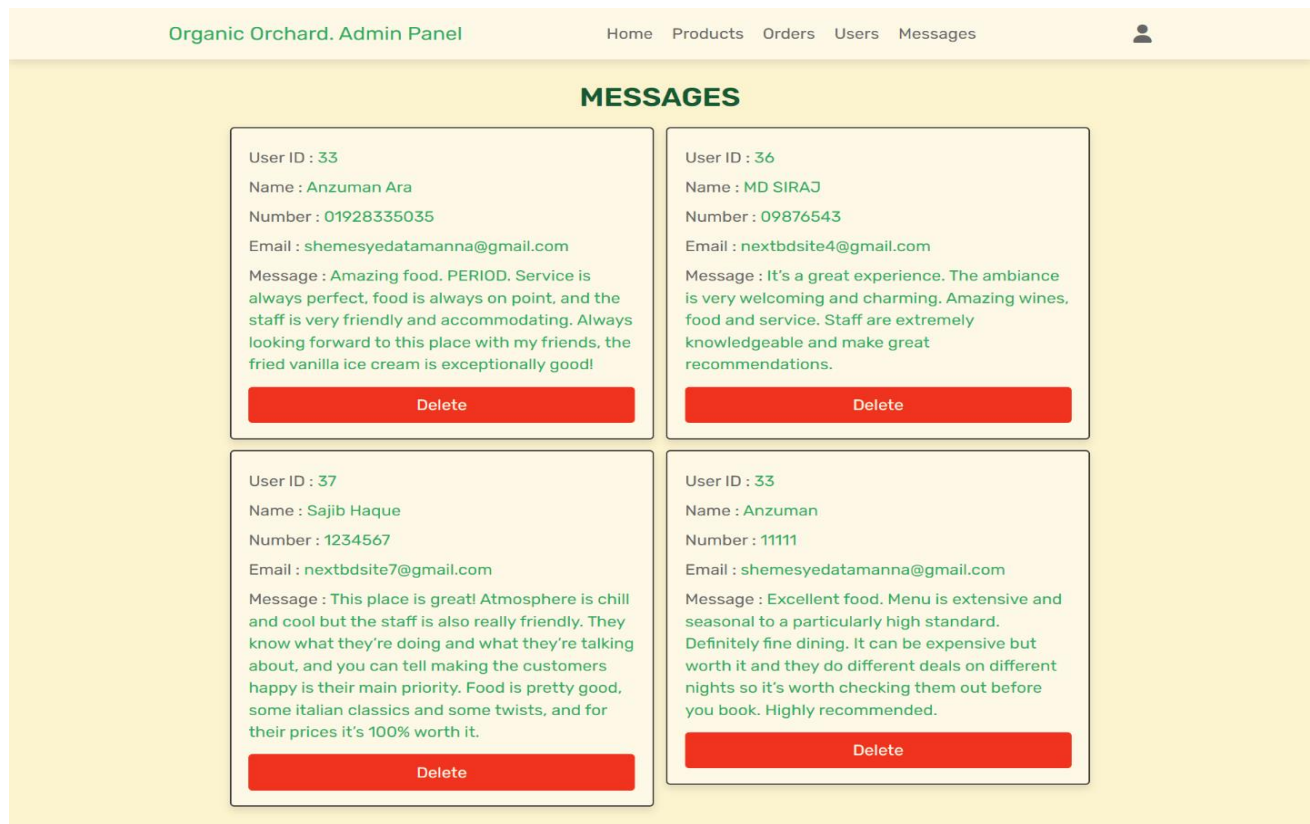
Username : Sajib Haque

Email : nextbdsite7@gmail.com

User Type : user

Delete

GUI Screen Shot: User Accounts Page



GUI Screen Shot: Admin Dashboard Message Page

Section 9: Database Implementation

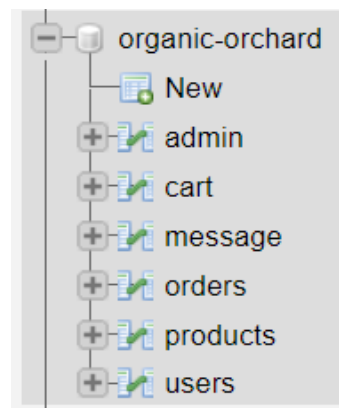


Figure: Database Table

In our database, we have a total of 6 tables. The tables are admin, cart, message, orders, products, users.

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> admin	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> cart	★ Browse Structure Search Insert Empty Drop	5	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> message	★ Browse Structure Search Insert Empty Drop	5	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> orders	★ Browse Structure Search Insert Empty Drop	15	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> products	★ Browse Structure Search Insert Empty Drop	23	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> users	★ Browse Structure Search Insert Empty Drop	8	InnoDB	utf8mb4_general_ci	16.0 KiB	-
6 tables	Sum	56	InnoDB	utf8mb4_general_ci	96.0 KiB	0 B

Figure: Database Table

organic-orchard users id : int(100) name : varchar(100) email : varchar(100) password : varchar(100) user_type : varchar(20) image : varchar(100)	organic-orchard orders id : int(100) user_id : int(100) name : varchar(100) number : varchar(12) email : varchar(100) method : varchar(50) address : varchar(500) total_products : varchar(1000) total_price : int(100) placed_on : varchar(50) payment_status : varchar(20)	organic-orchard admin name : varchar(30) email : varchar(30) password : int(11) conpassword : int(11)
organic-orchard cart id : int(100) user_id : int(100) pid : int(100) name : varchar(100) price : int(100) quantity : int(100) image : varchar(100)	organic-orchard products id : int(100) name : varchar(100) category : varchar(20) details : varchar(500) price : int(100) image : varchar(100)	organic-orchard message id : int(100) user_id : int(100) name : varchar(100) email : varchar(100) number : varchar(12) message : varchar(500)

Figure: Database Design

The total database implementation is added in the [Organic Order PDF](#).

Section 10: Future Plan

- We love the UI as it is but we think it can be improved so that the users can navigate more easily and smoothly. That is why we will work on the UI and make it perfect
- Some limitations are there while customizing profiles, creating posts, and interacting with others' posts. We would like to improve user experience by adding a new feature to these actions.
- As of right now there is only one admin and only the admin can post products for the future, we want to add several dealers, who can add their products to our website.
- We would like to add users' frequently asked questions and other features to make this project a complete grocery store package.
- As of now, this is a web application that can be accessed on any device. But we would like to bring it to a handheld platform by turning it into an android app so that anyone can use it anywhere anytime.

Section 11: Conclusion

The project's primary purpose was to reach out to anyone who was looking for buying grocery products. We are optimistic that we will be able to attain our target at this time. Organic Orchard is capable of living up to its title. A website that will provide assistance and support to individuals who are in need. We aspire to provide assistance to anybody, everywhere, and at any time by forming a helpful community.

