

HEALTHY FARM CROPS

Diploma in Software Engineering

Final Project Documentation

2020.1F

G. K. R. KULAWARDHANA	:	KADSE201F-049
J. M. S. YOMAL	:	KADSE201F-060
H. M. S. P. GUNARATHNA	:	KADSE201F-061
P. W. D. I. M. RODRIGO	:	KADSE201F-063

School of Computing and Engineering

National Institute of Business Management

Kandy Regional Center, No: 02, Asgiriya Road,

Kandy

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Then our special thanks go to our lecturer and our course director, Ms. Inoka Abhayasinghe, and all our lecturers who led us to a better path full of experience and skills to improve the skills within us to make this project successful.

We like to extend our thanks to the other parties who supported us with their help regarding this project. Finally, these thanks go to all of our group's batchmates who are devoting and working hard to ensure the success of our project.

Declaration

We certify that this project does not incorporate, without acknowledgment, any material previously submitted for a diploma in any institution, and that it does not contain, to the best of our knowledge and belief, any material previously published or written by another person, except where due reference is made in the text. We also hereby give consent for our project report, if accepted, to be made available for photocopying and for interlibrary loans, and for the title and summary to be made available to outside organizations.

- Project Title: HEALTHY FARM CROPS
- Group members

Names	Index No	Signature
G. K. R. KULAWARDHANA	KADSE201F-049	
J.M.S. YOMAL	KADSE201F-060	
H.M.S.P. GUNARATHNA	KADSE201F-061	
P.W.D.I.M. RODRIGO	KADSE201F-063	

- Course Director: Ms. Inoka Abhayasinghe

.....

Signature

.....

Date

- Supervisor: Ms. Inoka Abhayasinghe

.....

Signature

.....

Date

Abstract

33.7% of the population of Sri Lanka engages in agricultural activities. Because of some environmental changes and animal attacks, a lot of farmers are unable to sell their products. To make matters worse, they are unable to find direct buyers without brokers when they expect to. When they go to economic centers to sell their products, they have to waste a lot of time and resources. When buyers get their hands on the products, their freshness has already begun to wither away. And in these pandemic times, they are unable to sell their product because of the curfew, they can not go to economic centers. So, the product goes to waste without ever being used.

So, our Genoxia organization created an online platform (Healthy Farm Crops) to sell fresh farm products to genuine buyers without difficulty. Our idea is to implement a website for both computers and phones. We are developing an all-in-one website for this. which makes this website more user-friendly and saves more time and resources for farmers and buyers.

We can support farmers by featuring them on our website. So, buyers can find them at the tip of the search through our website and many more services.

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List of Keywords

GUI	-	Graphical User Interface
SDLC	-	Software Development Life Cycle
UML	-	Unified Modeling Language

List of Acronyms and Abbreviations

SQL -> Structured Query Language

ERD -> Entity Relationship Diagram

UML-> Unified Modeling Language

SRS -> Software Requirements Specification

SDLC ->Software Development Life Cycle

DFD -> Data Flow Diagram

1. Introduction

1.1. Introduction of the Organization

Genoxia Technologies was established in the year 2021 and is currently providing our services in various fields.

In our latest project, "Healthy Farm Crops", we are providing services to increase the sales of agricultural products in our country and reduce the production wastage of our farmers. It is also committed as an organization to provide technical as well as advisory services through various channels to boost the economy of the country.

1.2. Problem Definition

Farmers have to go to an economical center to sell their products.

We observed that there is no local online platform for this need. Because of this, farmers have to wait in line for hours to sell their products. It is a waste of time and a lot of resources.

And in these pandemic times, they can't sell their product because of the curfew they can't go to economic centers. So, the product goes to waste without ever being used.

1.3. Project Objectives.

- Be able to get the products the buyers want quickly and simply.
- Accelerate the marketing of their products to sellers and prevent large-scale wastage of their products.
- Make a user-friendly platform for the users with an attractive UI.
- Update the website frequently.
- Building the web platform.

1.4. Proposed Solution

According to the difficulties and problems that have occurred in selling farming products, our idea is to implement a website for both computers and phones.

Selling farm products in economic centers can be very difficult. So, we are developing an all-in-one website for this task. which makes this website more user-friendly and saves more time and resources for farmers and buyers.

We can support farmers by featuring them on our website. So, buyers can find them at the tip of the search through our website.

2. Methodology

2.1. Introduction

Supplying quality farm products for the largest population is not an easy task. The Sri Lanka government has been supporting the agriculture industry with a number of policies, trying to stabilize the output and seeking ways to ensure the sector is growing healthily and sustainably.

The developing island of Sri Lanka (33.7%) employs about a third of its citizens working in the farm industry. Many farmers in Sri Lanka are unable to sell their products due to environmental change, and they are unable to find direct buyers without the use of brokers when they expect.

To give great value to our farmers, sell their products to genuine buyers without losing their revenue, and to get fresh farm product customers, Genoxia started this website. Furthermore, this website allows the buyers to find their buying products and many more services.

2.2. Data Collection Methods

- Questionnaires and surveys

- I. What type of farming products do you sell or buy?
- II. What is the process of buying and selling farming products?
- III. How was the product price determined?
- IV. What parts of the country do the products come from mostly?
- V. How many products go to waste daily?
- VI. How do you transport the products?
- VII. How did the COVID-19 pandemic affect the agriculture sector?
- VIII. What do you think about doing this process online?

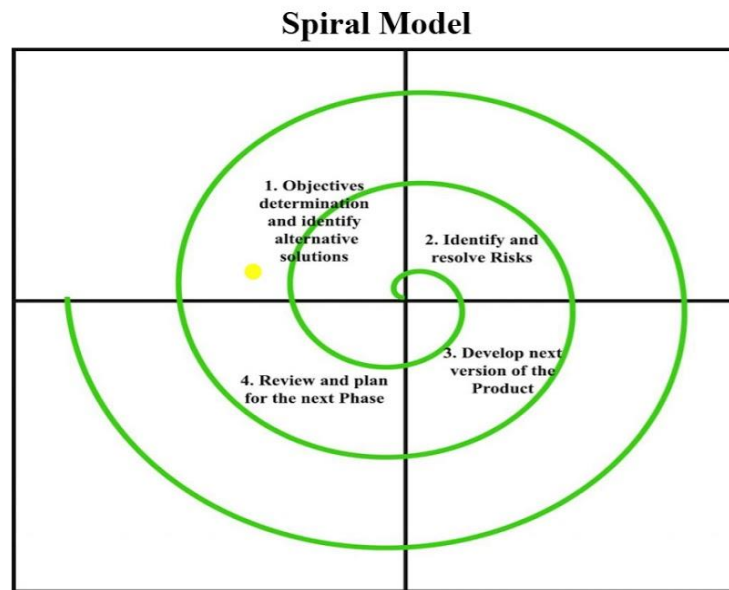
- Documents and records

We gathered some information from this website.

<https://www.agrimin.gov.lk/web/>

- Oral histories

2.3. Software Process Model



Spiral Model Phases

- Step – 1: Planning
It includes estimating the cost, schedule, and resources for the iteration. It also involves understanding the system requirements for continuous communication between the system analyst and the customer.
- Step – 2: Risk Analysis
Identification of potential risk is done while risk mitigation strategy is planned and finalized.
- Step – 3: Engineering
It includes testing, coding and deploying software at the customer site.
- Step – 4: Evaluation
Evaluation of software by the customer. Also, includes identifying and monitoring risks such as schedule slippage and cost overrun.

We are using spiral model as software processing model.

Because,

- In Our project releases are required to be frequent.
(Changes may require at any time.)
- We can create prototypes.
- Requirements are complex. (There is always a space for customer feedback.)
- Risk and costs evaluation is important. (Continuous or repeated development helps in risk management).
- Cost estimation becomes easy as the prototype building is done in small fragments.
- Development is fast and features are added in a systematic way in Spiral development.
- Additional functionality or changes can be done at a later stage.

2.4. Software Development Tools

- Front end: HTML, CSS, Bootstrap

Bootstrap is the most popular CSS Framework for developing responsive and mobile-first websites. We used Bootstrap 4 version.

- Client side: Validation -> JavaScript, jQuery

JavaScript is a client scripting language which is used for creating webpages. It is used when a webpage is to be made dynamic and add special effects on pages.

- Server Side: Validation -> Ajax, PHP

PHP is a popular server-side scripting language for the web.

- Business Logic: PHP Database -> MySQL

MySQL is most popular open-source database used for web development.

It supports multiple storage engines which greatly improve the server performance tuning and flexibility.

- Web server: XAMPP Server

2.5. Testing Strategies

- Unit Testing
- Integration Testing
- System Testing
- Performance Testing

2.6. Implementation Plan

We have planned to increase the sales of these agricultural products and gradually reduce the wastage of agricultural produce.

This can be achieved by increasing the market opportunities for farmers and by making it easier for buyers to find farmers' produce very quickly and in quantities.

Buyers and sellers can be connected without interfering many brokers to get maximum revenue for the sellers.

There are stakeholders in our project.

- Buyers
- Sellers
- Admin

In our ongoing project, buyers can place their wholesale and retail orders directly with registered agricultural producers of our healthy farm crops official website. Furthermore, the administrator of our website can manage all the buyers' and sellers' details, available products, and the orders placed.

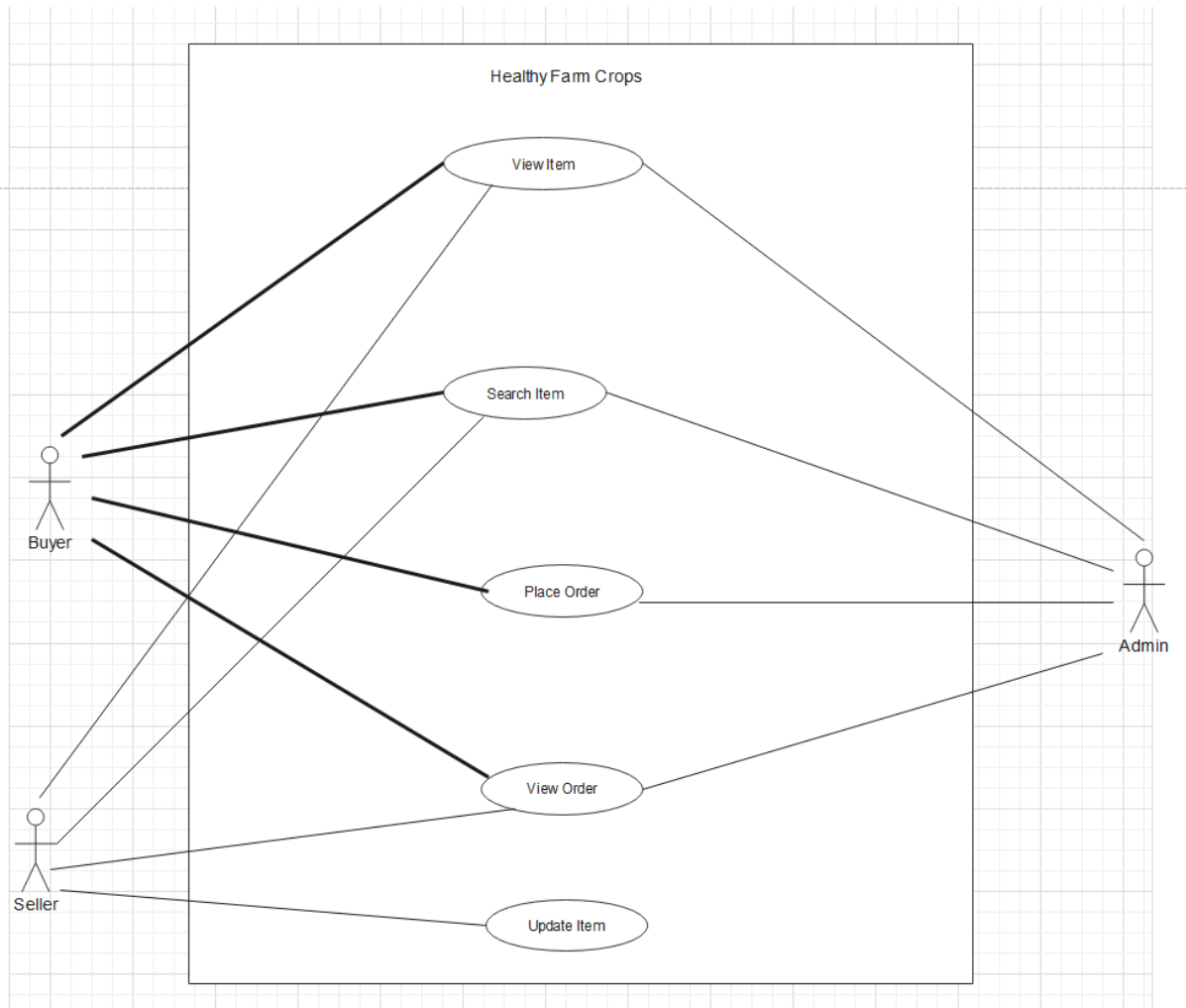
The first step in designing our website involves buyers and sellers. When the order is confirmed, sellers can get that order with buyers' details from our website, and sellers can directly deliver related orders.

3. Analysis

3.1. UML Diagram

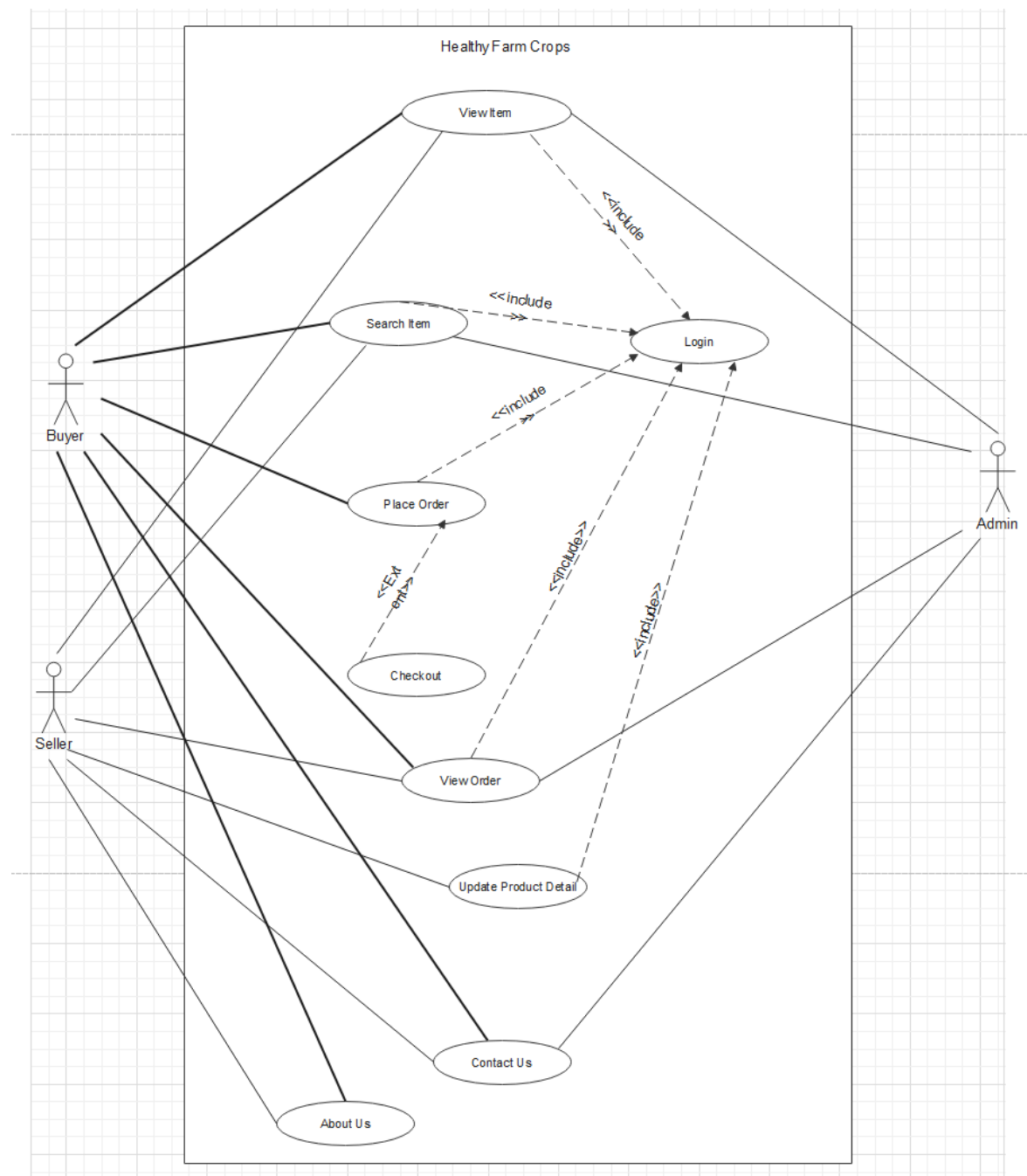
- **Use Case Diagram of current System**

This represents the Use case diagram of the current system (manual system). It shows how the external users engage with the system.



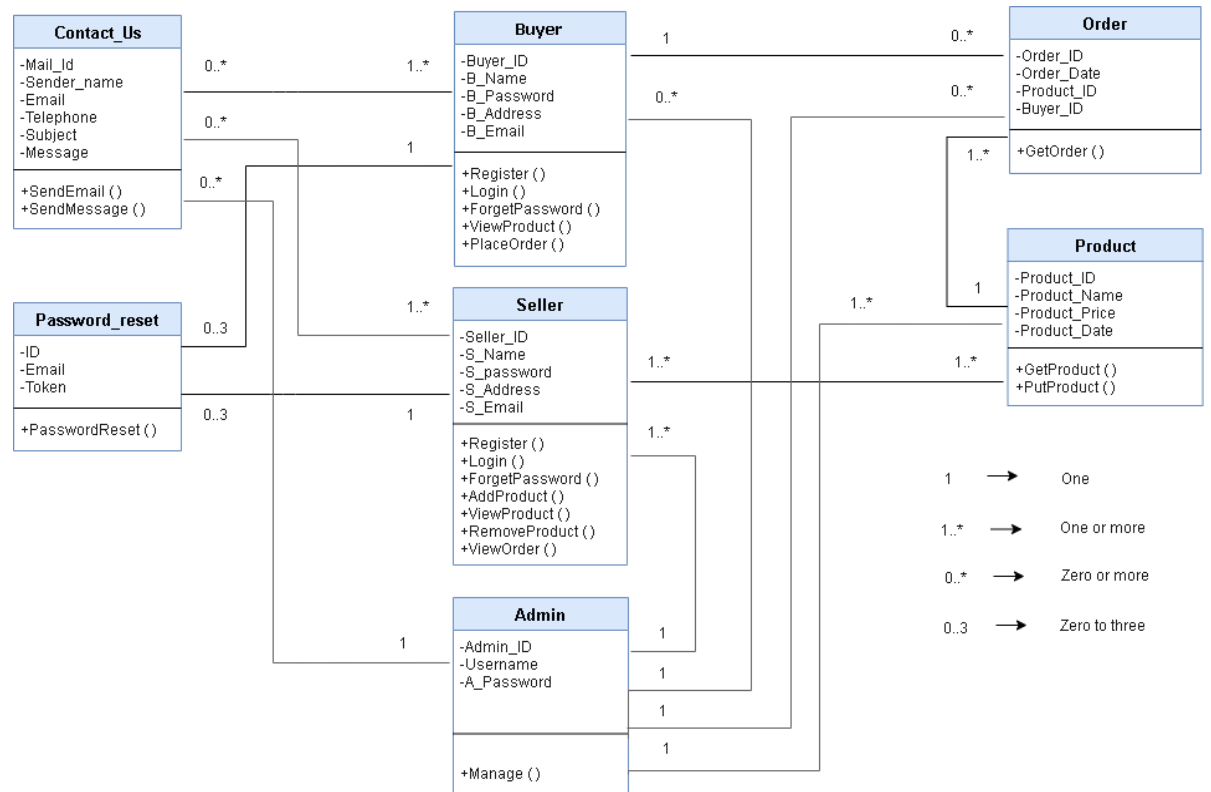
- **Use Case Diagram of proposed System**

This represents the Use case diagram of the proposed system. It shows how the external users engage with the system.



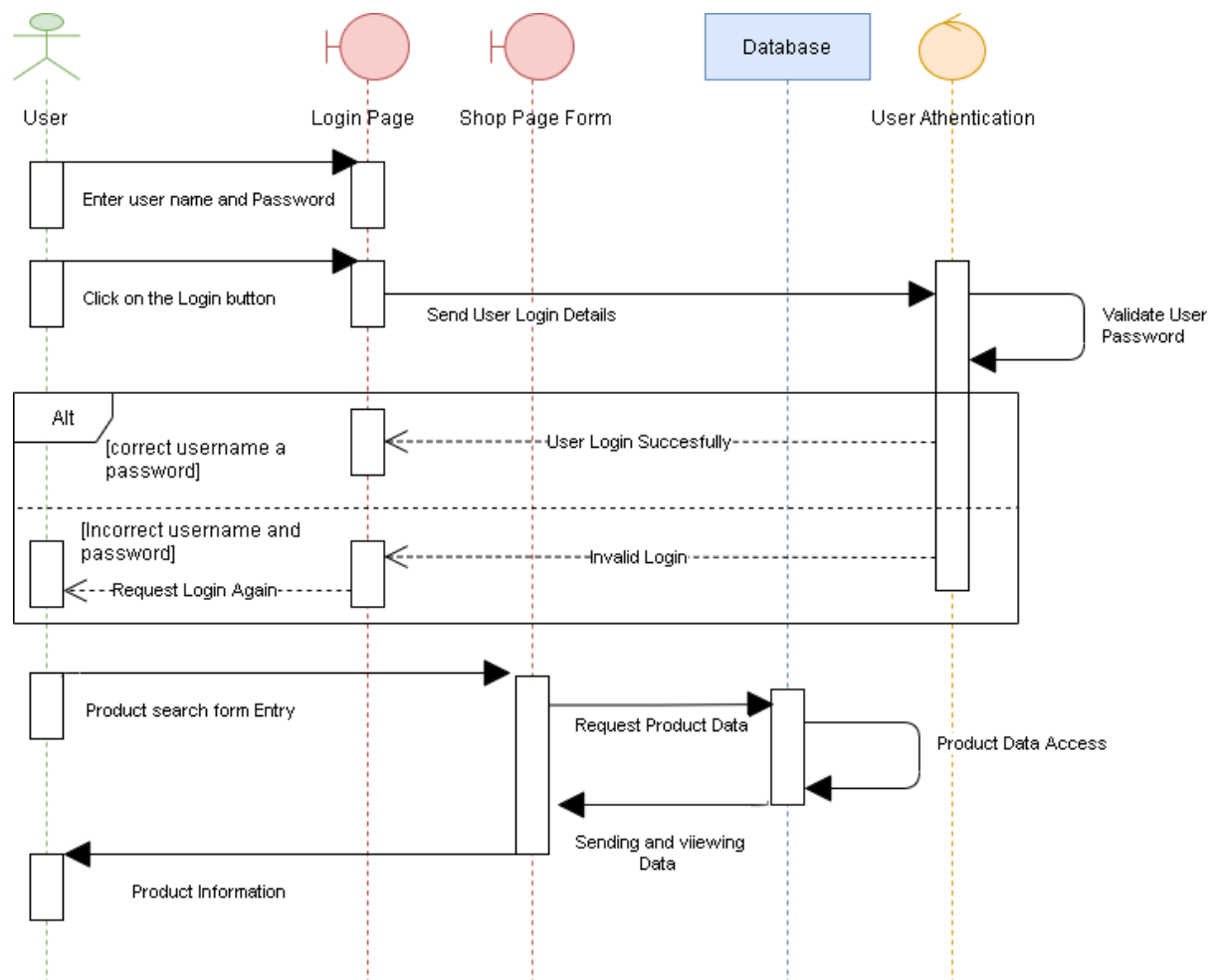
- **Class Diagram**

This diagram shows the classes and the attributes of the whole system



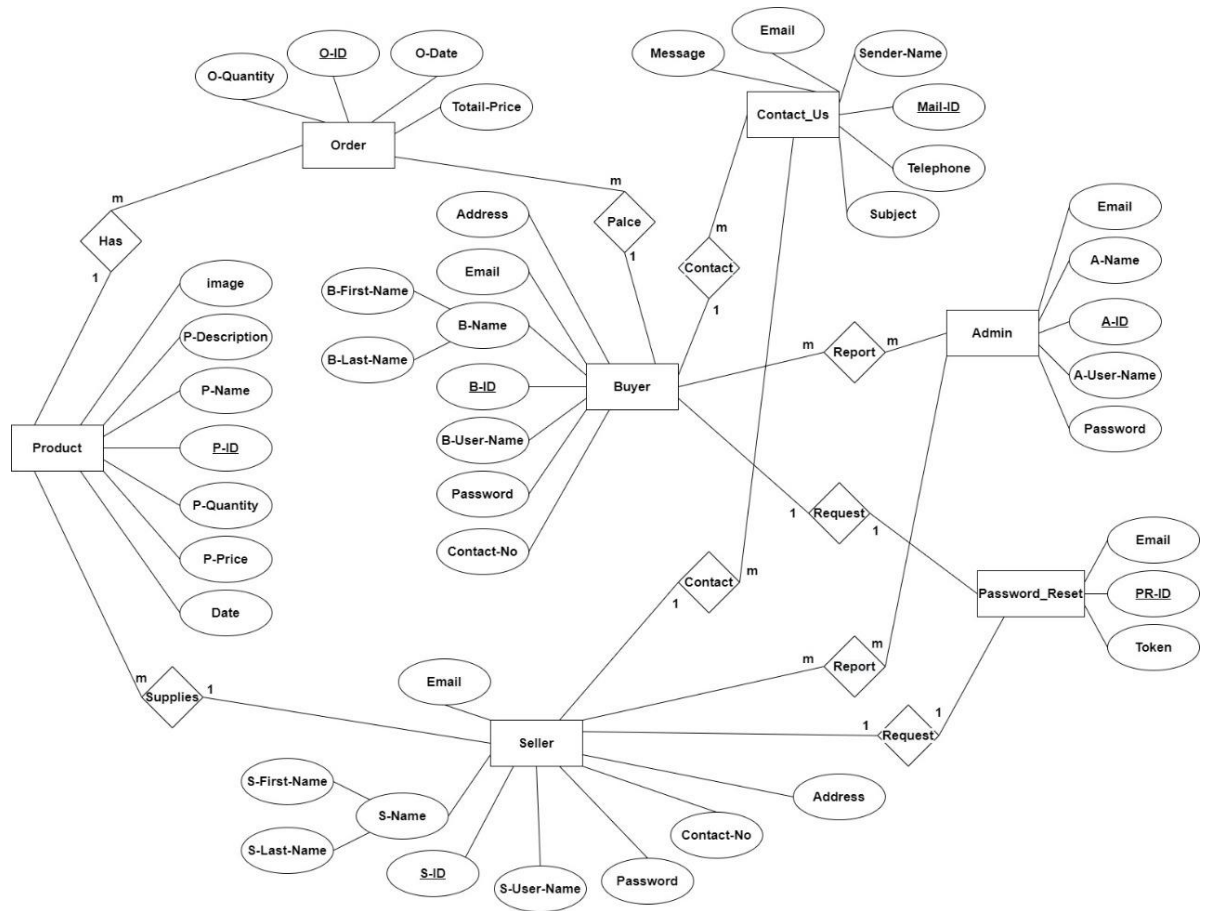
- **Sequence Diagram**

This diagram shows the login and search part of the whole system.



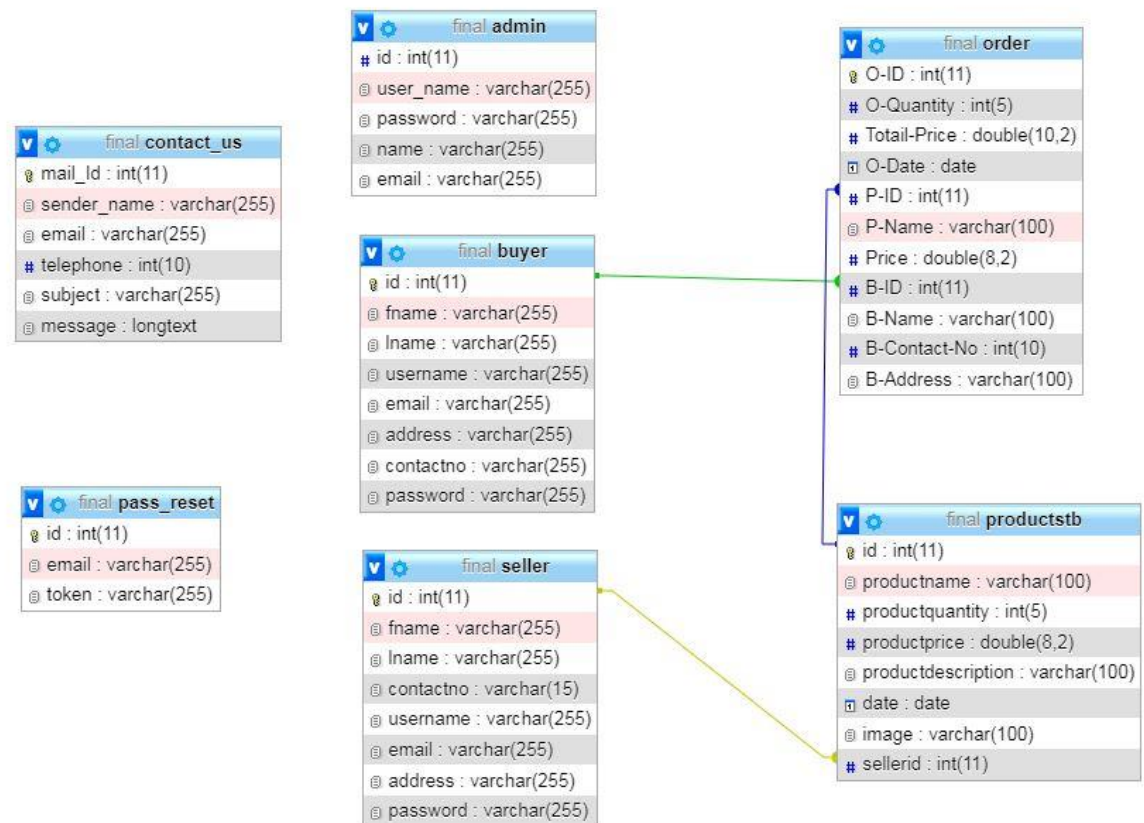
3.2. ER Diagram

This diagram shows the Entity Relationship diagram of the whole system.



- **Schema Diagram**

This diagram shows the Schema diagram of the whole system.

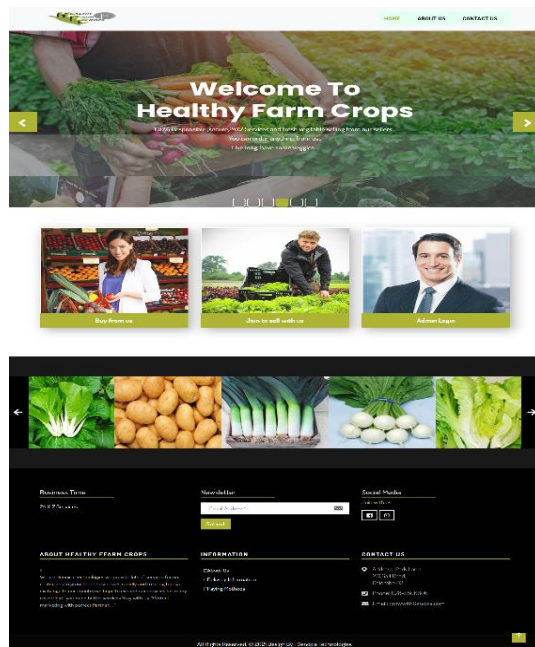


4. Solution Design

4.1. Interface Design

I. Home page

This is the home section of the website. This page loads first. You can easily navigate throughout the website to other sections. We used some animations for the home sections.



Start

Display to navigation bar items (home, aboutUs, contact Us)

Display middle button set to login and register (Buy from us, join
Sell with us, admin Login)

While (user is on screen)

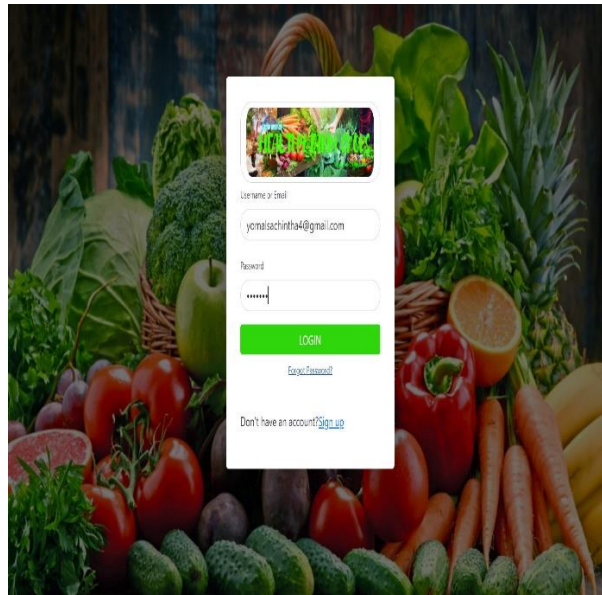
Load animation

End while

End

II. Login Page

This is the Login page. After registration can login with site to access all the details.



Start

Get username or email

Get Password

If (username == entered username or

Email == entered Email AND

Password == entered Password) then

Open connection for MySQL

Open user accounts

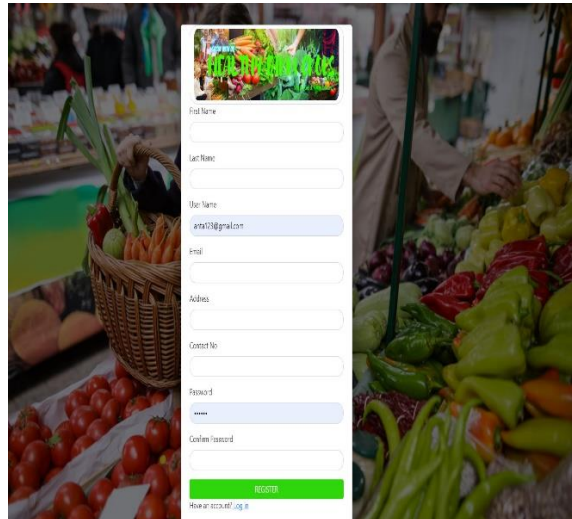
Printline (“Username | Email or Password incorrect”)

End if

End.

III. Register Page

This is the register page. Any users can register filling following details. If users have an account, they can access all relevant details of this site.



First Name

Last Name

User Name
amx12@gmail.com

Email

Address

Contact No

Password
xxxxx

Confirm Password

REGISTER

[Have an account? Log In](#)

Start

Get first name

Get Last name

Get username

Get Email

Get Address

Get Contact No

Get Password

Confirm Password

If (user fill the above details) then

Open connection for MySQL

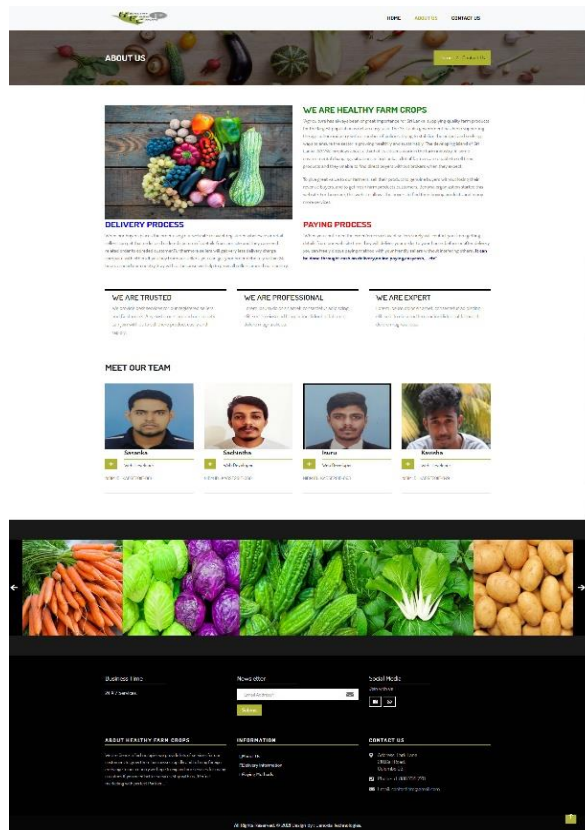
Open Screen home

End if

End.

IV. About Us Page

This page shows our site and developers details, furthermore this page simply describes how works delivery process and paying process.



Start

Display top navigation bar

Display Title Box

Display about Us

Display footer

End.

V. Contact Us Page

HEALTHY FARM DROPS

HOME ABOUT US CONTACT US

Contact Us Home / Contact Us

GET IN TOUCH
If you want to get more details about this site or send feedback text here...

Your Name

Your Email

Subject

Your Message

Send Message

CONTACT INFO
You can contact our Healthy Farm Drops management team using following contact details.

Address: Park Lane
210, Gail Road,
Colombo 03.

Phone: 078-5506606

Email: growwith@denota.com

Start

Display top navigation bar

Display Title Box

If (user want to send message/feedback to management) then

Fill name

Fill Email

Fill Subject

Fill message

If (user click the message button) then

Printline (“Your message was sent successfully”)

Else

Printline (“Something went wrong. Please try again”)

End if

End.

VI. Add Product Page

Register sellers of website can add their product to find whole seller customers.

Add Products

Product Name:

Quantity:

Price:

Date:

ID	Product Name	Quantity	Price	Date	Image
1	Apple	10	100.00	2023-10-10	
2	Banana	20	200.00	2023-10-10	
3	Cherry	30	300.00	2023-10-10	
4	Pineapple	40	400.00	2023-10-10	

Business Time
24/7 Service

Newsletter

Social Media

ABOUT US
We are a leading technology company, providing a wide range of services to our clients. We are committed to providing the highest quality of service and support to our clients.

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CONTACT US
Address: 123 Street
12345 City
12345 State
Phone: +1 800 123 4567
Email: info@company.com

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Start

Display top navigation bar

Display Title Box

Get Product ID

Get Product Name

Get Product Quantity

Get Product Price

Get Date

Get Product Image

If (user entered Product ID && ProductName && ProductQuantity && ProductPrice && Productimage) then

Enter Product ID Product Name Product Quantity Product Price Date Product Image in Database

Get search Name

If (search Name == ProductName) then

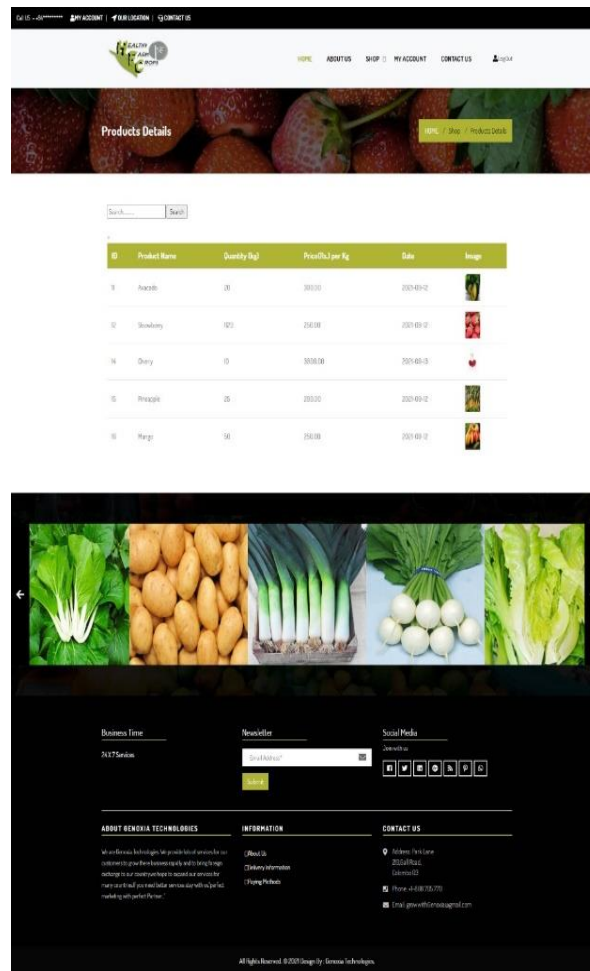
Display Search Products

Display Products

Display footer

End.

VII. Products Details Page



Start

Display top navigation bar

Display Title Box

Get search Name

If (Search Name == ProductName) then

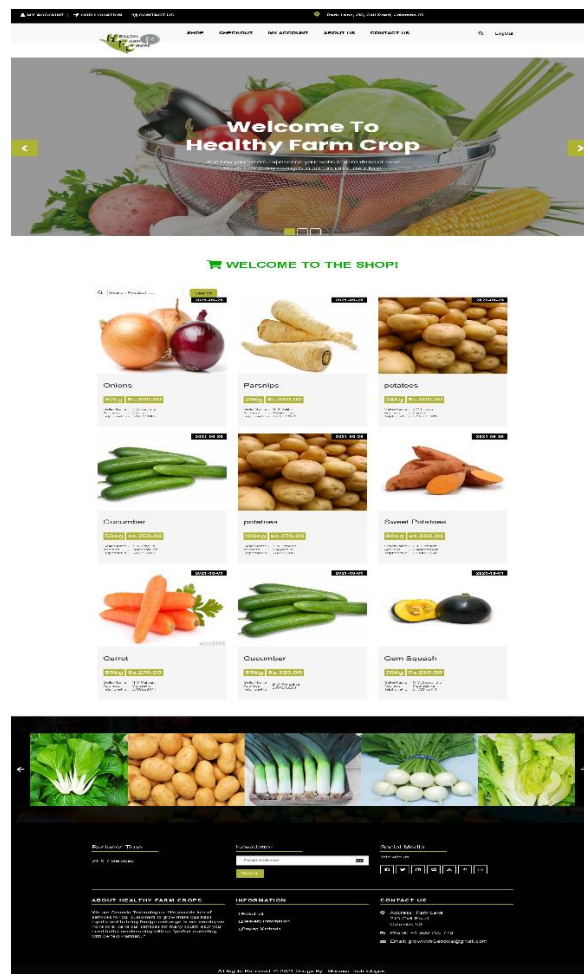
Display Search Products

Display Products

Display footer

End.

VIII. Shop page



Start

Display top navigation bar

Display Slider

Printline (“welcome to shop”)

Display all the available products

If (buyer want to View the product) then

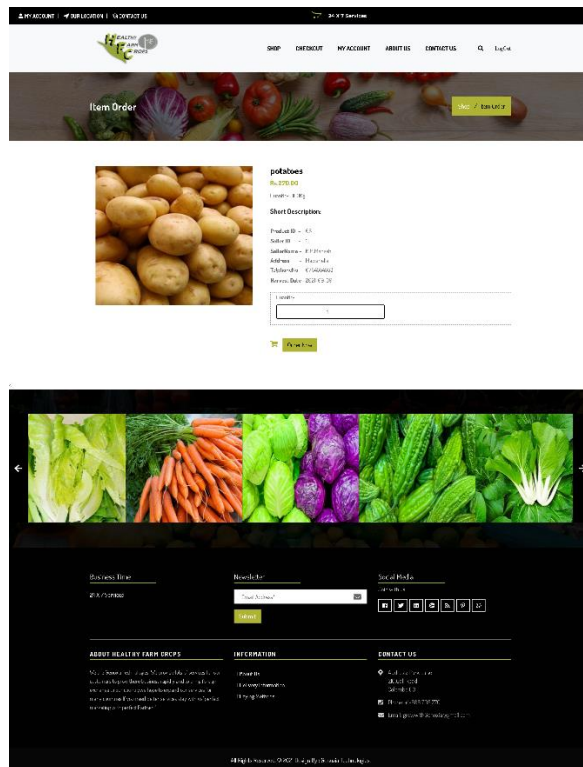
Click View button

End if

Display footer

End

IX. Item Order Page



Start

Display top navigation bar

Display Title Box

Display Chooosed Item details

If (Buyer want to order the choosed product) then

Select you want quantity

Click Order Now button

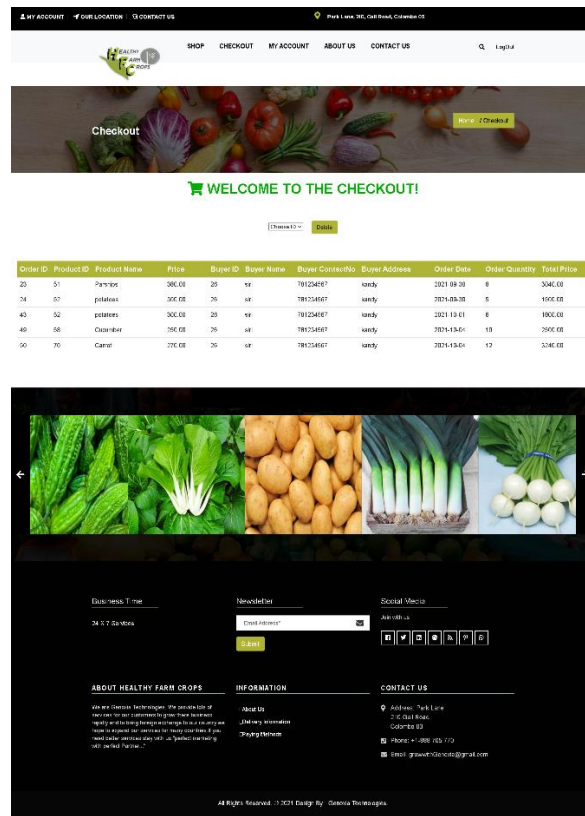
Printline (“Order is added”)

End if

Display footer

End.

X. Checkout Page



Start

Display top navigation bar

Display Title Box

Printline (“welcome to checkout”)

Display ordered items

If (buyer Click Remove button) then

Alert (“Item removed”)

If (buyer Click the Place Order button) then

Order placed database

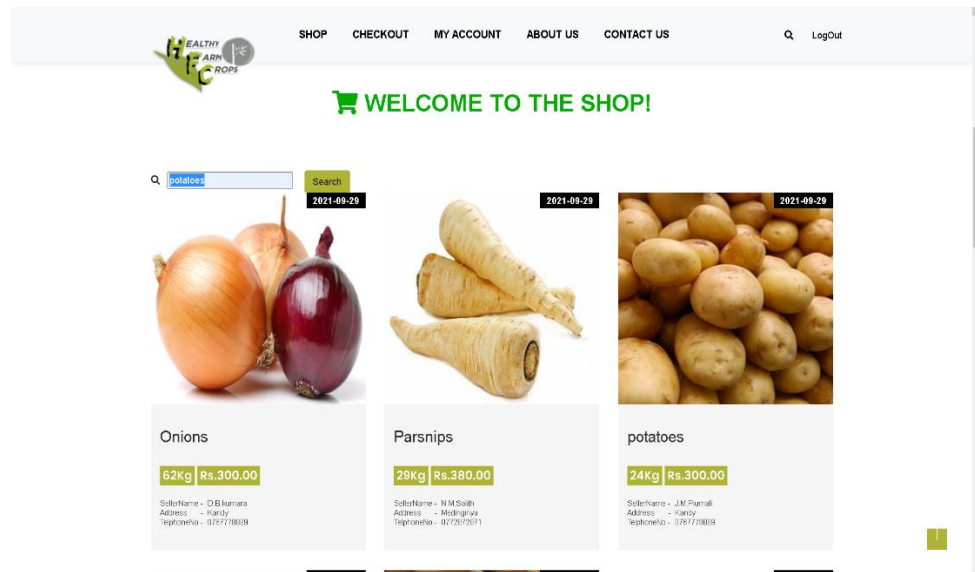
Alert (“Order placed successfully”)

End if

Display footer

End.

XI. Search by Product Name



Start

Display top navigation bar

Display shop page

Display search bar icon

If (Search product by Name) then

Enter the product name


Click search button

Display available relevant product details

End if

End.

XII. Admin Page – Details of Buyers.



BUYERSSELLERSORDERSITEMSFEEDBACK

LOGOUT

Buyer's Details

Details of Buyers

ID	First Name	Last Name	Username	email	address	Contact No
20	saxena	purnol	saxena	saxena@saxenamail.com	medanpura	07811111
21	joke	joke	joke	joke@gmail.com	colombo	0985555555555
22	Kavita	prerna	Kavita	kavita@gmail.com	kandy	078724647
23	Pahum	Lakmal	Pahum	lakmal@gmail.com	colombo	078765432
24	Sahan	molith	Sahan	sahan@gmail.com	kandy	078234567
25	pubudu	kavita	pubudu	kavita02@gmail.com	Mahala	078867778
26	Ruvira	srinivasulu	Ruvira	ruvirag@gmail.com	kandy	0787123456
27	lakshmi	dimuthu	lakshmi	lakshmi@gmail.com	Mahala	078234567

Business Time

24 X 7 Services

Newsletter

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ABOUT GENOXIA TECHNOLOGIES.

Genoxia Technologies is a leading provider of solutions for our customers to grow their businesses rapidly in our country and to expand their reach in the international market. We are currently looking for new business partners to join our team.

INFORMATION

Address: Park Lane, 25, 5th Floor, Colombo 03

Phone: 076 550 0033

Email: genoxia@genoxia.lk

CONTACT US

Address: Park Lane, 25, 5th Floor, Colombo 03

Phone: 076 550 0033

Email: genoxia@genoxia.lk

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Start

Display top navigation bar

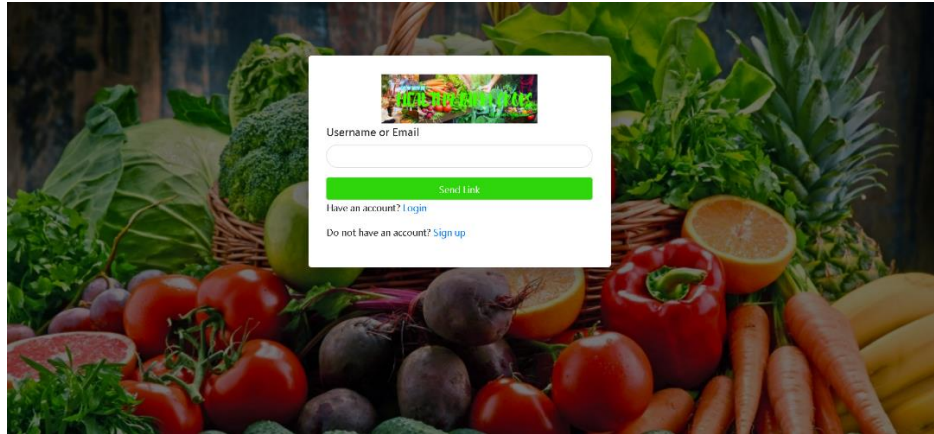
Display Title Box

Display details of buyers

Display footer

End.

XIII. Forget Password



Start

If (user want to reset the password, click forget password) then

 User will be directed to forget password page

 Enter username or email

If (user enter username or email && click the Send Link button) then

 user will get an email

If (user click the link) then

 User will be directed to password reset page

If (user enter the new password) then

 Printline (“Password reset successfully”)

Else (“Something went wrong, check and please try again”)

End if

End.

XIV. Admin Page – Details of Sellers

Seller's Details

ID	First Name	Last Name	Username	Email	Address	Contact No.
1	John	Doe	john	john.doe@gmail.com	Colombo	0723654321
2	James	Smith	james	james.smith@gmail.com	Colombo	0734567890
3	John	Smith	john	john.smith@gmail.com	Colombo	0745678901
4	John	Smith	john	john.smith@gmail.com	Colombo	0756789012
5	John	Smith	john	john.smith@gmail.com	Colombo	0767890123

Business Time
24/7 hours

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ABOUT GENEXIA TECHNOLOGIES
Genexia Technologies is a leading provider of web and mobile application development services. We are committed to providing high-quality solutions for our clients.

INFORMATION
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CONTACT US
Address: 123 Main Road, Colombo 03
Phone: 011-123-4567
Email: info@genexia.lk

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Start

Display top navigation bar


Display Title Box

Display Details of Sellers

Display footer


End.

XV. Admin Page – Details of Orders




BUYERSSELLERSORDERSITEMSFEEDBACKQLOGOUT

Order Details



Details of Orders

Order ID	Order Price	Order Date	Product ID	Quantity (kg)	Buyer ID
46	500.00	2020-11-03	50	5	2
47	2242.00	2020-11-03	51	8	3
48	3032.00	2020-11-03	52	2	16
49	2500.00	2020-11-04	53	10	16
52	545.00	2020-11-04	59	6	26



Business Time


2022/2/28 10:00

NewsLetter

SEND

Social Media

Follow us on social media



ABOUT GENEXIA TECHNOLOGIES

Genexia Technologies is a small start-up company for providing the best services to our customers. We are committed to providing the best services to our customers. We are committed to providing the best services to our customers.

INFORMATION

Genexia Technologies

Genexia Technologies

Genexia Technologies

CONTACT US

Genexia Technologies

Genexia Technologies

Genexia Technologies

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Start

Display top navigation bar

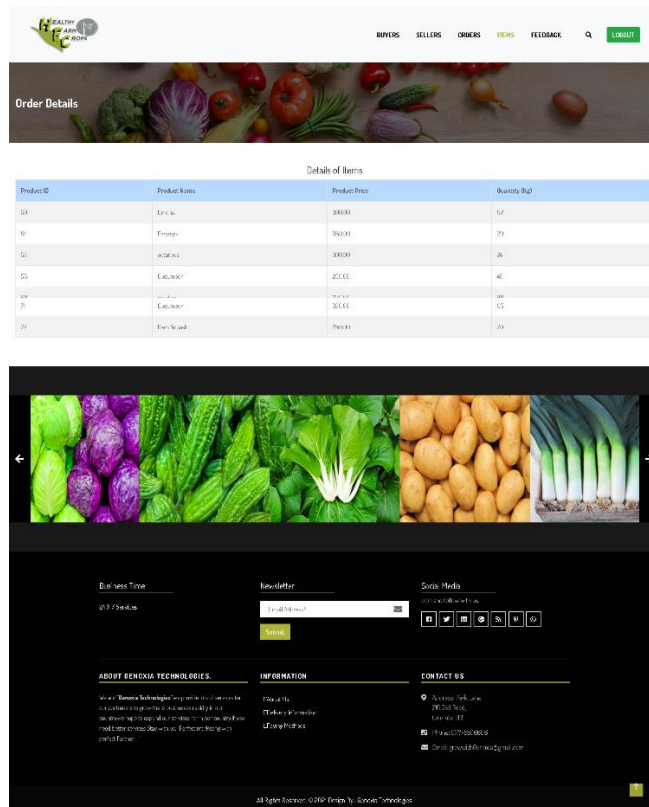
Display Title Box

Display Details of Orders

Display footer

End.

XVI. Admin Page – Details of Items



The screenshot displays the 'Order Details' page in an admin interface. At the top, there is a navigation bar with links for BUYERS, SELLERS, ORDERS, ITEMS, FEEDBACK, a search icon, and a LOGIN button. Below the navigation bar is a header image showing various vegetables. The main content area is titled 'Order Details' and contains a table with the following data:

Product ID	Product Name	Product Price	Quantity (kg)
04	Carrot	300.00	50
05	Broccoli	300.00	20
06	Carrot	300.00	20
07	Carrot	300.00	15
08	Carrot	300.00	20

Below the table is a large image showing various vegetables. At the bottom, there is a footer section with the following information:

- Business Time:** 07:00 / 24:00
- Newsletter:** A search bar with the placeholder 'Email Address' and a 'Subscribe' button.
- Social Media:** A row of social media icons for Facebook, Twitter, YouTube, Instagram, LinkedIn, and Google Plus.
- ABOUT BENXIA TECHNOLOGIES:** A paragraph of text about the company.
- INFORMATION:** A list of links: Home, Products, Services, Contact Us, Privacy Policy, Terms & Conditions.
- CONTACT US:** A form with fields for Name, Email, and Message, and a 'Send Message' button.

At the very bottom, there is a copyright notice: 'All Rights Reserved. ©2019 Benxia Technologies'.

Start

Display top navigation bar

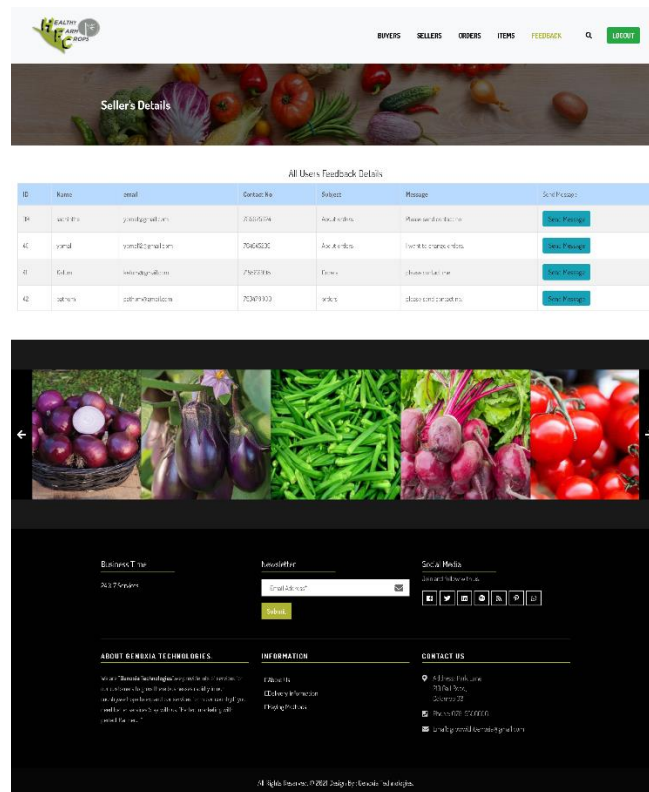
Display Title Box

Display Details of Items

Display footer

End.

XVII. Admin Page – Feedback



Start

Display top navigation bar

Display Title Box

Display Feedback

If (Admin click the send message button) then

Admin will be directed to Admin_send page

Get Email

Get Subject

Get Message

If (Admin enter the email, subject and message && click the send button) then

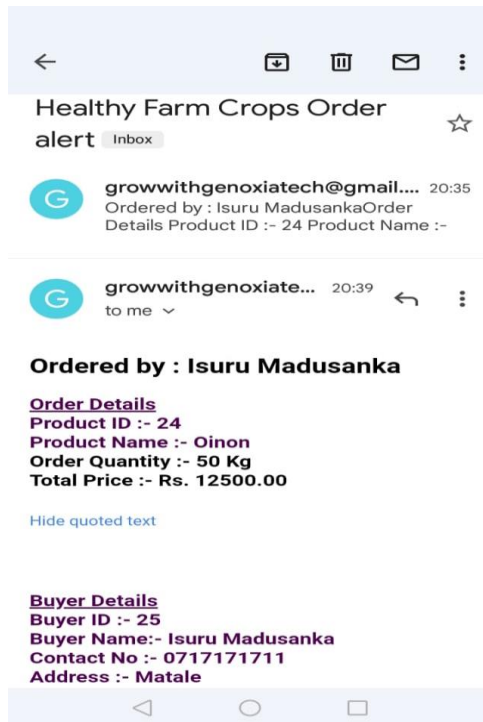
Printline ("Email sent")

Display footer

End.

XVIII. Auto Generate Order Email

This is an auto generate order email. When the buyer places an order, this auto generated email will be sent to seller.



4.2. Database Design

I. Admin table.

```
CREATE TABLE `admin` (  
  `id` int(11) NOT NULL,  
  `user_name` varchar(255) NOT NULL,  
  `password` varchar(255) NOT NULL,  
  `name` varchar(255) NOT NULL,  
  `email` varchar(255) NOT NULL,  
  PRIMARY KEY (`id`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

II. Buyer table.

```
CREATE TABLE `buyer` (  
  `id` int(11) NOT NULL,  
  `fname` varchar(255) NOT NULL,  
  `lname` varchar(255) NOT NULL,  
  `username` varchar(255) NOT NULL,  
  `email` varchar(255) NOT NULL,  
  `address` varchar(255) NOT NULL,  
  `contactno` varchar(255) NOT NULL,  
  `password` varchar(255) NOT NULL,  
  PRIMARY KEY (`id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

III. Seller table

```
CREATE TABLE `seller` (  
  `id` int(11) NOT NULL,  
  `fname` varchar(255) NOT NULL,  
  `lname` varchar(255) NOT NULL,  
  `contactno` varchar(15) NOT NULL,  
  `username` varchar(255) NOT NULL,  
  `email` varchar(255) NOT NULL,  
  `address` varchar(255) NOT NULL,  
  `password` varchar(255) NOT NULL,  
  PRIMARY KEY (`id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

IV. Product table

```
CREATE TABLE `productstb` (  
  `id` int(11) NOT NULL,  
  `productname` varchar(100) NOT NULL,  
  `productquantity` int(5) NOT NULL,  
  `productprice` double(8,2) NOT NULL,  
  `productdescription` varchar(100) NOT NULL,  
  `date` date NOT NULL,  
  `image` varchar(100) NOT NULL,  
  `sellerid` int(11) NOT NULL,  
  PRIMARY KEY (`id`),  
  FOREIGN KEY (`sellerid`) REFERENCES `seller` (`id`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

V. Password Reset table

```
CREATE TABLE `pass_reset` (  
  `id` int(11) NOT NULL,  
  `email` varchar(255) NOT NULL,  
  `token` varchar(255) NOT NULL,  
  PRIMARY KEY (`id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

VI. Order table

```
CREATE TABLE `order` (  
  `O-ID` int(11) NOT NULL,  
  `O-Quantity` int(5) NOT NULL,  
  `Total-Price` double(10,2) NOT NULL,  
  `O-Date` date NOT NULL,  
  `P-ID` int(11) NOT NULL,  
  `P-Name` varchar(100) NOT NULL,  
  `Price` double(8,2) NOT NULL,  
  `B-ID` int(11) NOT NULL,  
  `B-Name` varchar(100) NOT NULL,  
  `B-Contact-No` int(10) NOT NULL,  
  `B-Address` varchar(100) NOT NULL,  
  PRIMARY KEY (`O-ID`),  
  FOREIGN KEY (`B-ID`) REFERENCES `buyer` (`id`),  
  FOREIGN KEY (`P-ID`) REFERENCES `productstb` (`id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

VII. Contact Us table

```
CREATE TABLE `contact_us` (  
  `mail_Id` int(11) NOT NULL,  
  `sender_name` varchar(255) NOT NULL,  
  `email` varchar(255) NOT NULL,  
  `telephone` int(10) NOT NULL,  
  `subject` varchar(255) NOT NULL,  
  `message` longtext NOT NULL,  
  PRIMARY KEY (`mail_Id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

5. Conclusion

Our Genoxia group created this website in order to help farmers by showcasing them on our site. As a result, customers may locate them at the top of the search results on our website. Hopefully, we can work together to make this project a success by providing an easy-to-use platform for farmers and customers to sell and acquire agricultural products.

6. References

- www.w3school.com
- www.google.lk
- www.youtube.com
- www.udemy.com
- www.stackoverflow.com
- www.lucid.app.com

7. Future development

- Map Location
- Payment System
- Delivery System