Project Report

On

GREEN FARM

Submitted by

B.Surekha

D.Pravalika

C.Pujitha

Under the guidance of

P Ravi Kumar

Assistant Professor

Department of Computer Science and Engineering

Rajiv Gandhi University of Knowledge and Technologies(RGUKT),

R.K.Valley, Kadapa, Andra Pradesh.

Rajiv Gandhi University of Knowledge Technologies

RK Valley, Kadapa (Dist), Andhra Pradesh, 516330

CERTIFICATE

This is to certify that the project work titled "**GREEN FARM**" is a bonafied project work submitted by **B.Surekha , D.pravalika and C.Pujitha** holding ID's **R170161 , R170214 & R170162** in the department of COMPUTER SCIENCE AND ENGINEERING in partial fulfillment of requirments for the award of degree of Bachelor Of Technology in computer science and engineering for the year 2021-2022 carried out the work under the supervision

GUIDE

P RAVI KUMAR

HEAD OF THE DEPARTMENT

P HARINADHA

ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of any task would be incomplete without the mention of the people who made it possible and whose constant guidance and encouragement crown all the efforts success.

I am extremely grateful to our respected Director,Prof. K. SANDHYA RANI for fostering an excellent academic climate in our institution.

I also express my sincere gratitude to our respected Head of the Department P HARINADHA for his encouragement, overall guidance in viewing this project a good asset and effort in bringing out this project.

I would like to convey thanks to our guide at college P RAVI KUMAR for his guidance, encouragement, co-operation and kindness during the entire duration of the course and academics.

My sincere thanks to all the members who helped me directly and indirectly in the completion of project work. I express my profound gratitude to all our friends and family members for their encouragement.

INDEX

ABSTRACT

In now-a-days every farmer is using the Pesticides, which are incredibly harmful to human health. Pesticides have been proven to cause reproductive and developmental effects ,cancer, kidney and liver damage, endocrine disruption ,etc.

So to avoid these cons, here we came up with the new project called **GREEN FARM.** In this project we are going to provide organic products, such as Organic Vegetables, Organic Fruits, Organic Vegetable Seeds, Organic Herbal Seeds & Indoor Plants. It brings the Farmers and customers closer through this Website. It makes the process easy to the customers who wants to buy only orgainc products.

Introduction

GREEN FARM is an E-Commerce website where buyers purchase Organic products. Here,we are getting this organic products directly from farmers. Farmers will also get benefited rates. The project main aim is to provide only organic products such as Organic Vegetables, Organic Fruits, Organic Vegetable Seeds, Organic Herbal Seeds & Indoor Plants. It brings the Farmers and customers closer through this Website. It makes the process easy to the customers who wants to buy only orgainc products. It has 8 modules.Thay are listed below:

- Index Page
- Regestration Page
- Login Page
- Home Page
- Category Page
- OrderNow Page
- AboutUs Page
- Description Page

Purpose

This project main aim is to provide Orgainc products such as Organic Vegetables, Organic Fruits, Organic Vegetable Seeds, Organic Herbal Seeds & Indoor Plants. It brings the Farmers and the customers closer through this websiteIt makes the process easy to the customers who wants to buy only orgainc products.

Scope

The scope of this project is buyers can easily purchase Organic Vegetables, Organic Fruits, Organic Herbal seeds, Organic vegetable seeds by simply ordering on this website. Customer can the products at affordable prices. Once the customers login into our webpage. Customer can view all our products by category wise , then customer can add the product into add to cart page.

Advantages:

- Benefits will be there for both Farmers, and the Customers.
- Customers can get the organic products at afforadble prices.
- Fruits and vegetables will be available in online at best quality produce at best prices.
- Allows for faster service.
- As we used bootstrap as a frontend technology , it allows the user to feel as phone ,when the window is size is decreased.
- It’s impossible to find chemical free vegetables in cities and even towns, but through this website everyone can get fresh vegetables and fruits easily.

Disadvantages:

- Limited E-Commerce Functionality.
- Missing key search option.

Requirement Specification

Hardware Configuration:

Client Side:

Ram	512 MB
Hard disk	10 GB
Processor	1.0 GHz

Server side:

Ram	1 GB
Hard disk	20 GB
Processor	2.0 GHz

Software Requirement:

Front end	HTML,CSS,JAVA SCRIPT,BOOTSTRAP
Server side Language	PHP
Database Server	MYSQL
Web Browser	Firefox , Google Chrome or any compatible browser
Operating System	Ubuntu,Windows or any equivalent OS
Software	xampp

APACHE

The Apache HTTP Server Project is an effort to develop and maintain an open-source HTTP server for modern operating systems including UNIX and Windows. The goal of this project is to provide a secure, efficient and extensible server that provides HTTP services in sync with the current HTTP standards.

The Apache HTTP Server was launched in 1995 and it has been the most popular web server on the Internet since April 1996. It has celebrated its 20th birthday as a project in February 2015.

PHP

- PHP stands for PHP: Hypertext Preprocessor.
- PHP is a server-side scripting language, like ASP.
- PHP scripts are executed on the server.
- PHP supports many databases (MYSQL, Informix, Oracle, Sybase, Solid, Generic ODBC, etc.).
- PHP is an open source software.
- PHP is free to download and use.

MYSQL

- MYSQL is a database server
- MYSQL is ideal for both small and large applications
- MYSQL supports standard SQL
- MYSQL compiles on a number of platforms
- MYSQL is free to download and use
- How to access MySQL:
- http://localhost/phpmyadmin

Analysis and Design

Analysis:

One drawback to non-organic foods is that you may be consuming higher levels of pesticides, antibiotics or hormones, and your food may be coming from growing conditions that are not as highly regulated as organic products.

An organic movement began in the 1940s as a reaction to agriculture's growing reliance on synthetic fertilizers and pesticides. The history of this modern revival of organic farming dates back to the first half of the 20th century at a time when there was a growing reliance on these new synthetic, non-organic methods.

So we decided to provide the best quality and fresh products to the customers through this website.Products such as organic vegetables, organic fruits , vegetable seeds , herbal seeds and indoor plants.

Design Introduction:

Design is the first step in the development phase for any techniques and principles for the purpose of defining a device, a process or system in sufficient detail to permit its physical realization. Once the software requirements have been analyzed and specified the software design involves three technical activities - design, coding, implementation and testing that are required to build and verify the software.

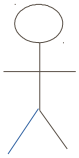
The design activities are of main importance in this phase, because in this activity, decisions ultimately affecting the success of the software implementation and its ease of maintenance are made. These decisions have the final bearing upon reliability and maintainability of the system. Design is the only way to accurately translate the customer's requirements into finished software or a system.

Design is the place where quality is fostered in development. Software design is a process through which requirements are translated into a representation of software. Software design is conducted in two steps. Preliminary design is concerned with the transformation of requirements into data

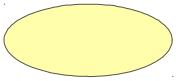
UML Diagrams:

Actor:

A coherent set of roles that users of use cases play when interacting with the use cases.an observable result of value of an actor.



Use case: A description of sequence of actions, including variants, that a system performs yields an observable result of value of an actor. actor diagram is drawned in a eclipse shape



UML stands for Unified Modeling Language. UML is a language for specifying, visualizing and documenting the system. This is the step while developing any product after analysis. The goal from this is to produce a model of the entities involved in the project which later need to be built. The representation of the entities that are to be used in the product being developed need to be designed.

USECASE DIAGRAMS:

Use case diagrams model behavior within a system and helps the developers understand of what the user require. The stick man represents what's called an actor.

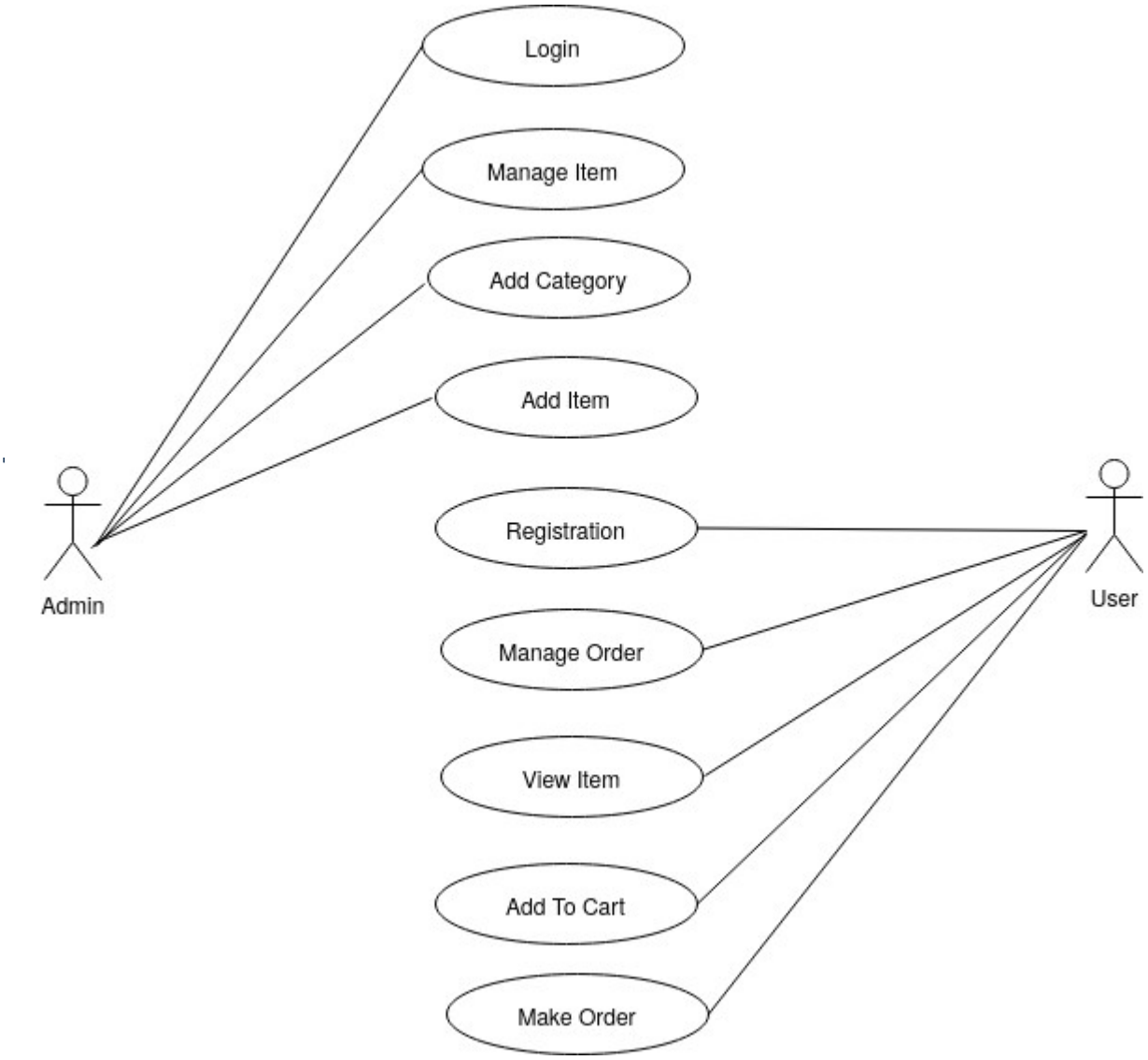
Use case diagram can be useful for getting an overall view of the system and clarifying that can do and more importantly what they can't do.

Use case diagram consists of use cases and actors and shows the interaction between the use case and actors.

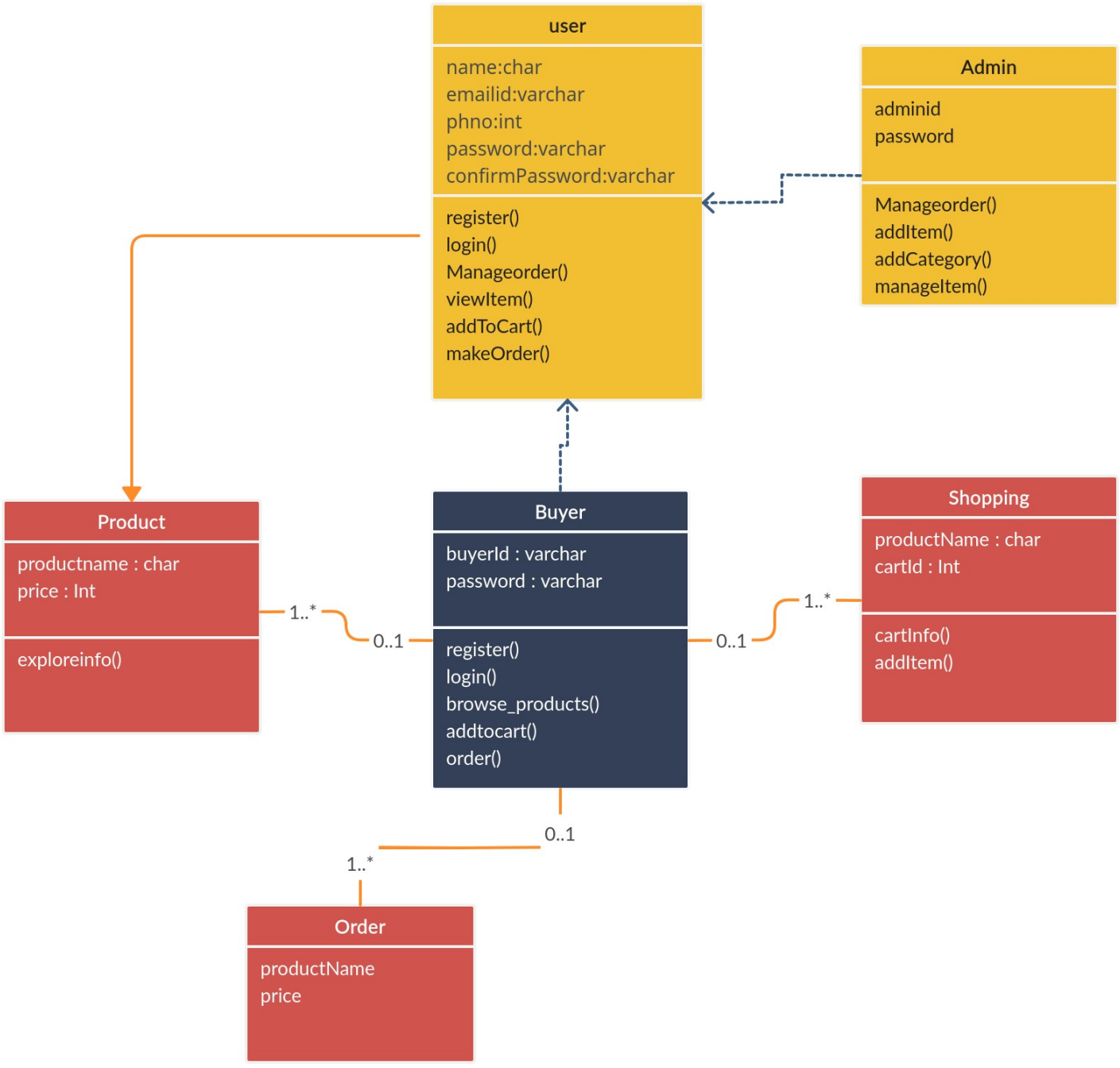
- The purpose is to show the interactions between the use case and actor.
- To represent the system requirements from user's perspective.
- An actor could be the end-user of the system or an external system.

USECASE DIAGRAM: A Use case is a description of set of sequence of actions. Graphically it is rendered as an ellipse with solid line including only its name. Use case diagram is a behavioral diagram that shows a set of use cases and actors and their relationship. It is an association between the use cases and actors. An actor represents a real-world object. Primary Actor – Sender, Secondary Actor Receiver.

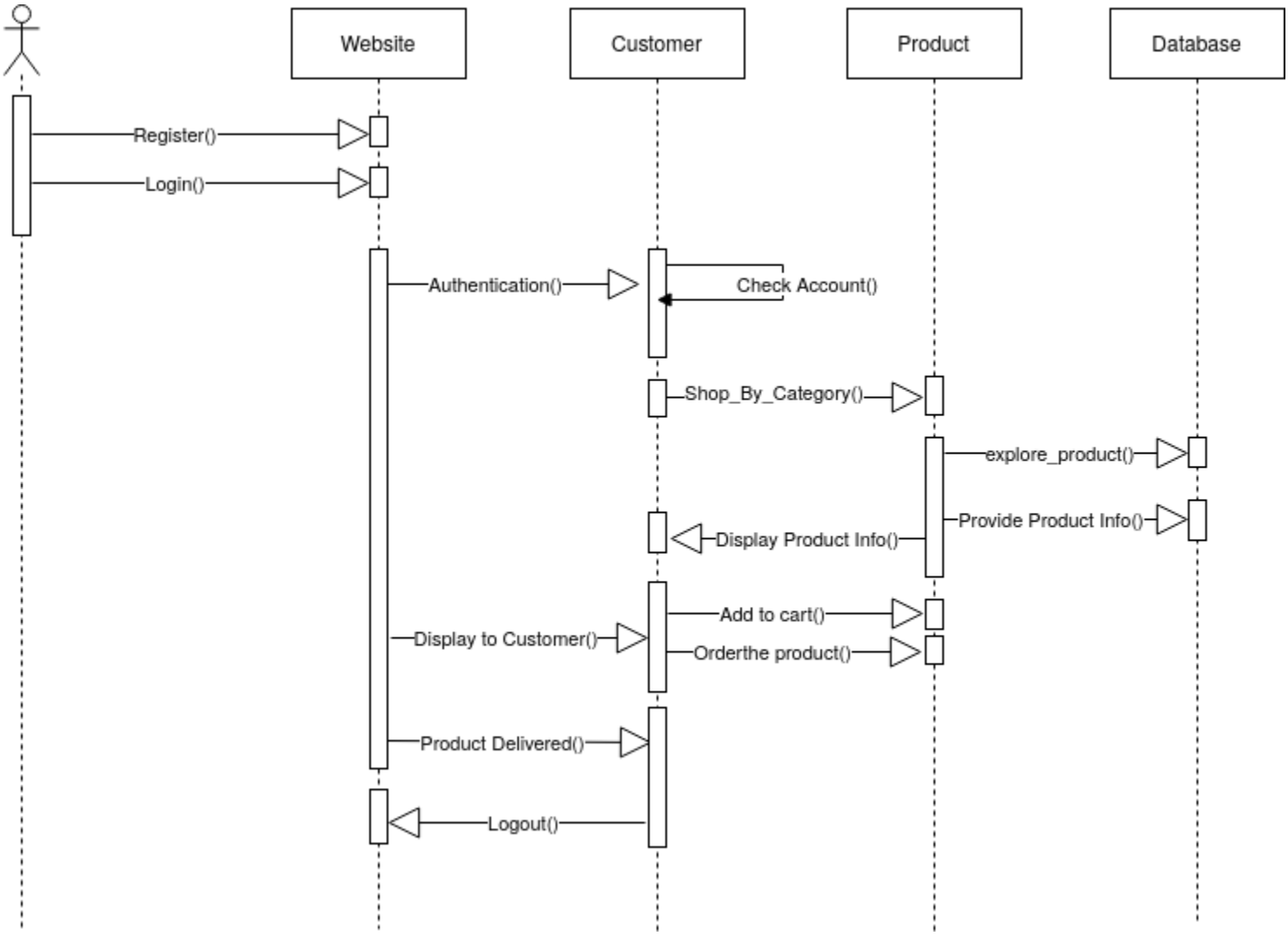
Use Case Diagrams:



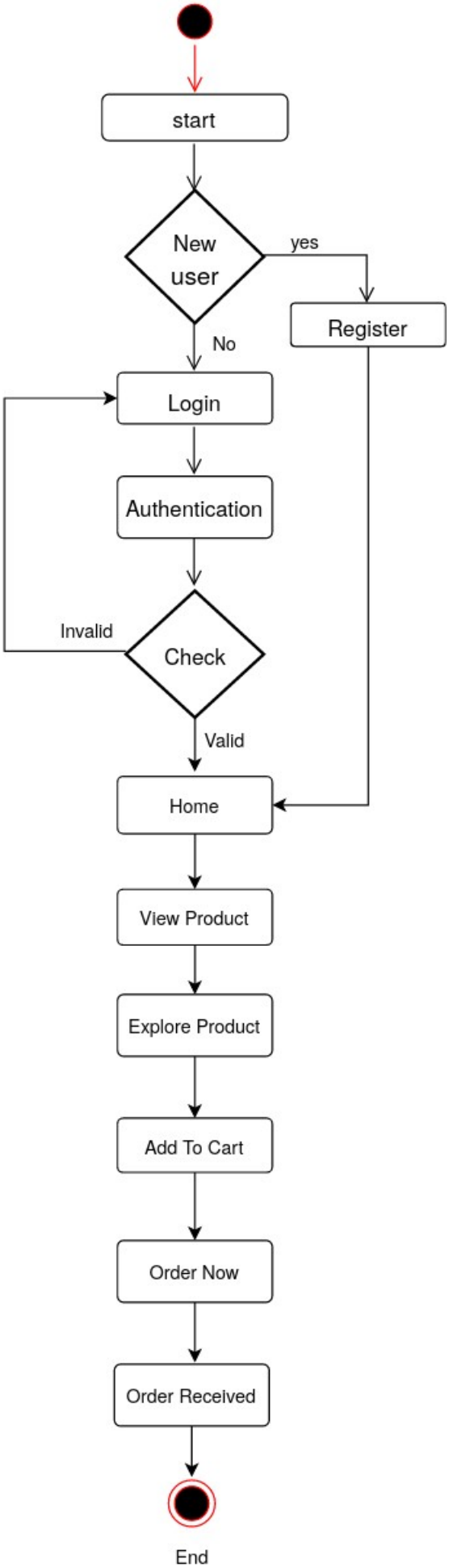
CLASS DIAGRAM:



SEQUENC & COLLOBORATION DIAGRAM:



ACTIVITY DIAGRAM:



ER Diagram:

The Entity-Relationship (ER) model was originally proposed by Peter in 1976 [Chen76] as a way to unify the network and relational database views. Simply stated the ER model is a conceptual data model that views the real world as entities and relationships. A basic component of the model is the Entity-Relationship diagram which is used to visually represent data objects. Since Chen wrote his paper the model has been extended and today it is commonly used for database design for the database designer, the utility of the ER model is:

- It maps well to the relational model. The constructs used in the ER model can easily be transformed into relational tables.
- It is simple and easy to understand with a minimum of training. Therefore, the model can be used by the database designer to communicate the design to the end user.
- In addition, the model can be used as a design plan by the database developer to implement a data model in specific database management software.

ER Notation

There is no standard for representing data objects in ER diagrams. Each modeling methodology uses its own notation. The original notation used by Chen is widely used in academics texts and journals but rarely seen in either CASE tools or publications by non-academics. Today, there are a number of notations used; among the more common are Bachman, crow's foot, and IDEFIX.

All notational styles represent entities as rectangular boxes and relationships as lines connecting boxes. Each style uses a special set of symbols to represent the cardinality of a connection. The notation used in this document is from Martin. The symbols used for the basic ER constructs are:

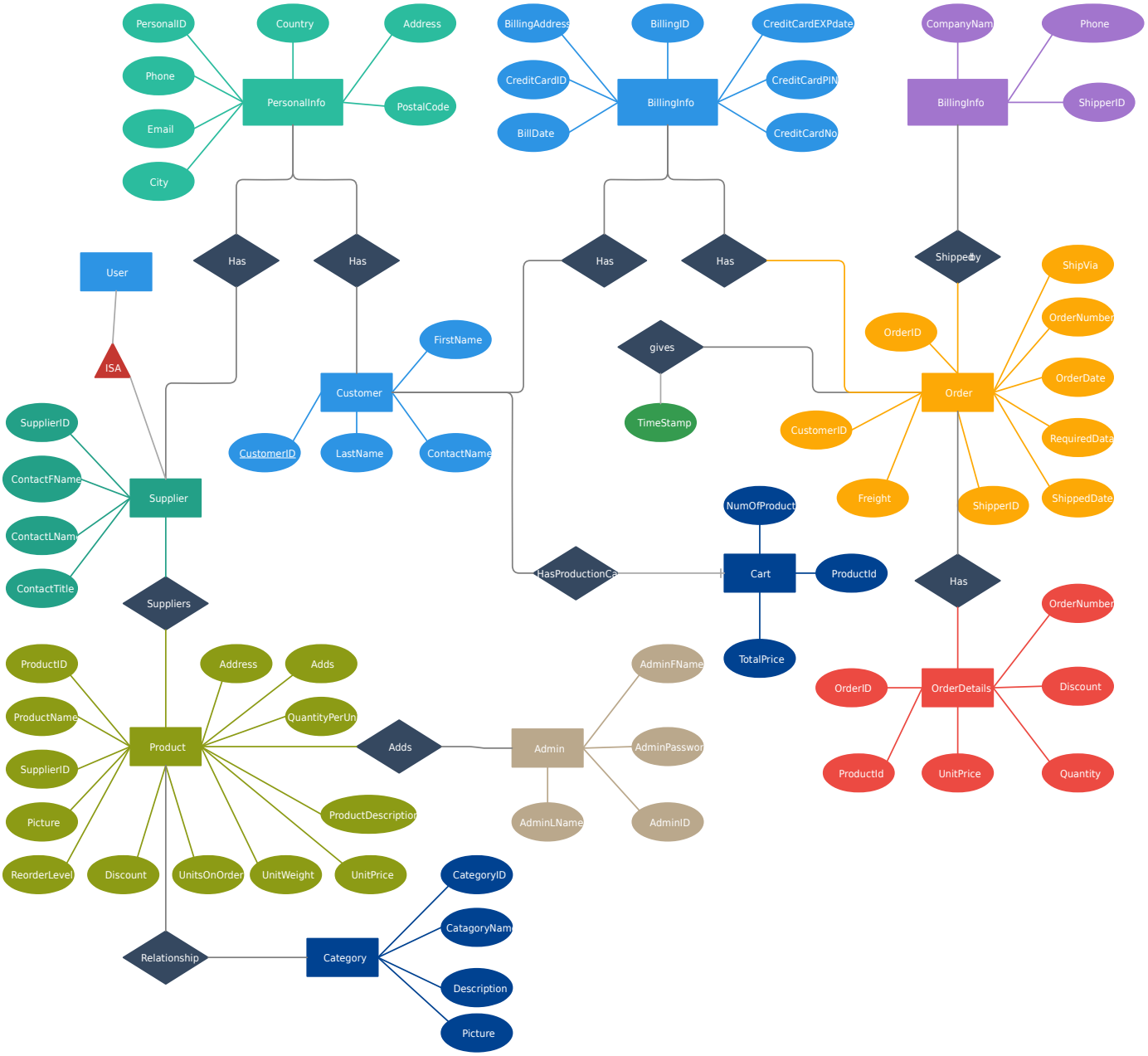
- **Entities** are represented by labeled rectangles. The label is the name of the entity. Entity names should be singular nouns.
- **Relationships** are represented by a solid line connecting two entities. The name of the relationship is written above the line. Relationship names should be verbs

- **Attributes**, when included, are listed inside the entity rectangle. Attributes which are identifiers are underlined. Attribute names should be singular nouns.

- **Cardinality** of many is represented by a line ending in a crow's foot. If the crow's foot is omitted, the cardinality is one.

Existence is represented by placing a circle or a perpendicular bar on the line. Mandatory existence is shown by the bar (looks like a 1) next to the entity for an instance is required. Optional existence is shown by placing a circle next to the entity that is optional.

ER Diagram:


PersonalID
Country
Address
Phone
PersonalInfo
PostalCode
Email
City
BillingAddress
BillingID
CreditCardEXPdate
CreditCardID
BillingInfo
CreditCardPIN
BillDate
CreditCardNo
CompanyNam
Phone
BillingInfo
ShipperID
Has
Has
Has
Has
Shipped by
User
ISA
FirstName
Customer
CustomerID
LastName
ContactName
gives
TimeStamp
OrderID
ShipVia
OrderNumber
OrderDate
Order
CustomerID
RequiredDate
Freight
ShipperID
ShippedDate
SupplierID
ContactFName
Supplier
ContactLNam
ContactTitle
NumOfProduct
HasProductionCa
Cart
ProductId
TotalPrice
Has
Suppliers
OrderNumber
ProductID
Address
Adds
AdminFName
ProductName
QuantityPerUn
OrderID
OrderDetails
Discount
Product
Adds
Admin
AdminPasswor
SupplierID
ProductId
UnitPrice
Quantity
Picture
ProductDescriptio
AdminLName
AdminID
ReorderLevel
Discount
UnitsOnOrder
UnitWeight
UnitPrice
CategoryID
CatagoryNam
Relationship
Category
Description
Picture

Implementation and System Testing

After all phase have been perfectly done, the system will be implemented to the server and the system can be used.

System Testing

The goal of the system testing process was to determine all faults in our project .The program was subjected to a set of test inputs and many explanations were made and based on these explanations it will be decided whether the program behaves as expected or not. Our Project went through two levels of testing

1. Unit testing

2 .Integration testing

Unit Testing

Unit testing is commenced when a unit has been created and effectively reviewed .In order to test a single module we need to provide a complete environment i.e. besides the section we would require The procedures belonging to other units that the unit under test calls Non local data structures that module accesses .A procedure to call the functions of the unit under test with appropriate parameters

1. Test for the admin module

Testing admin login form-This form is used for log in of administrator of the system. In this form we enter the username and password if both are correct administration page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask the details.

Report Generation: admin can generate report from the main database.

Integration Testing

In the Integration testing we test various combination of the project module by providing the input.

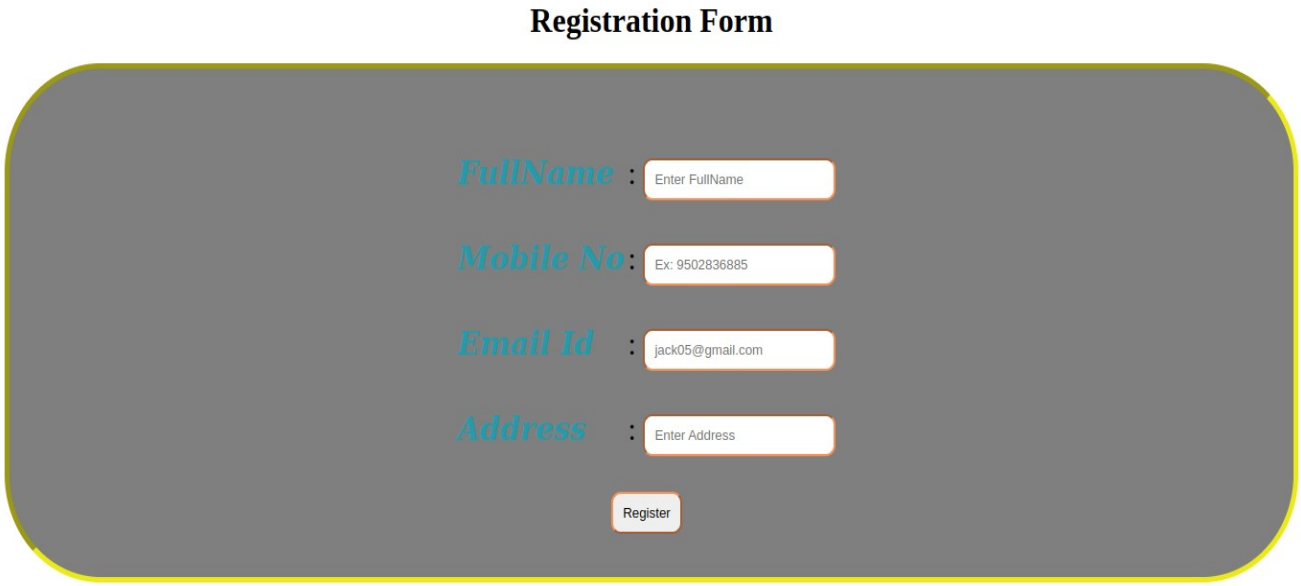
The primary objective is to test the module interfaces in order to confirm that no errors are occurring when one module invokes the other module.

Project Evaluation

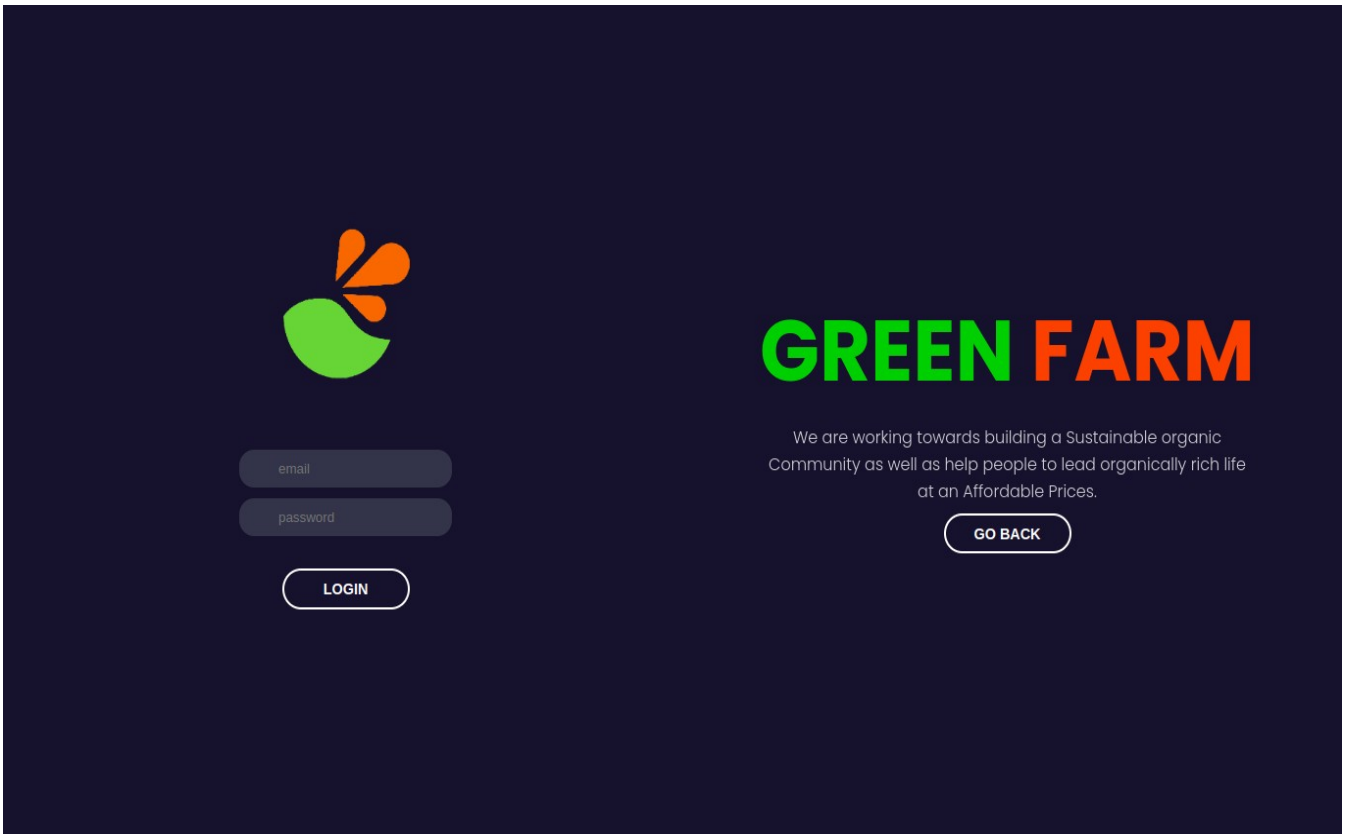
PROJECT URL:

Index Page

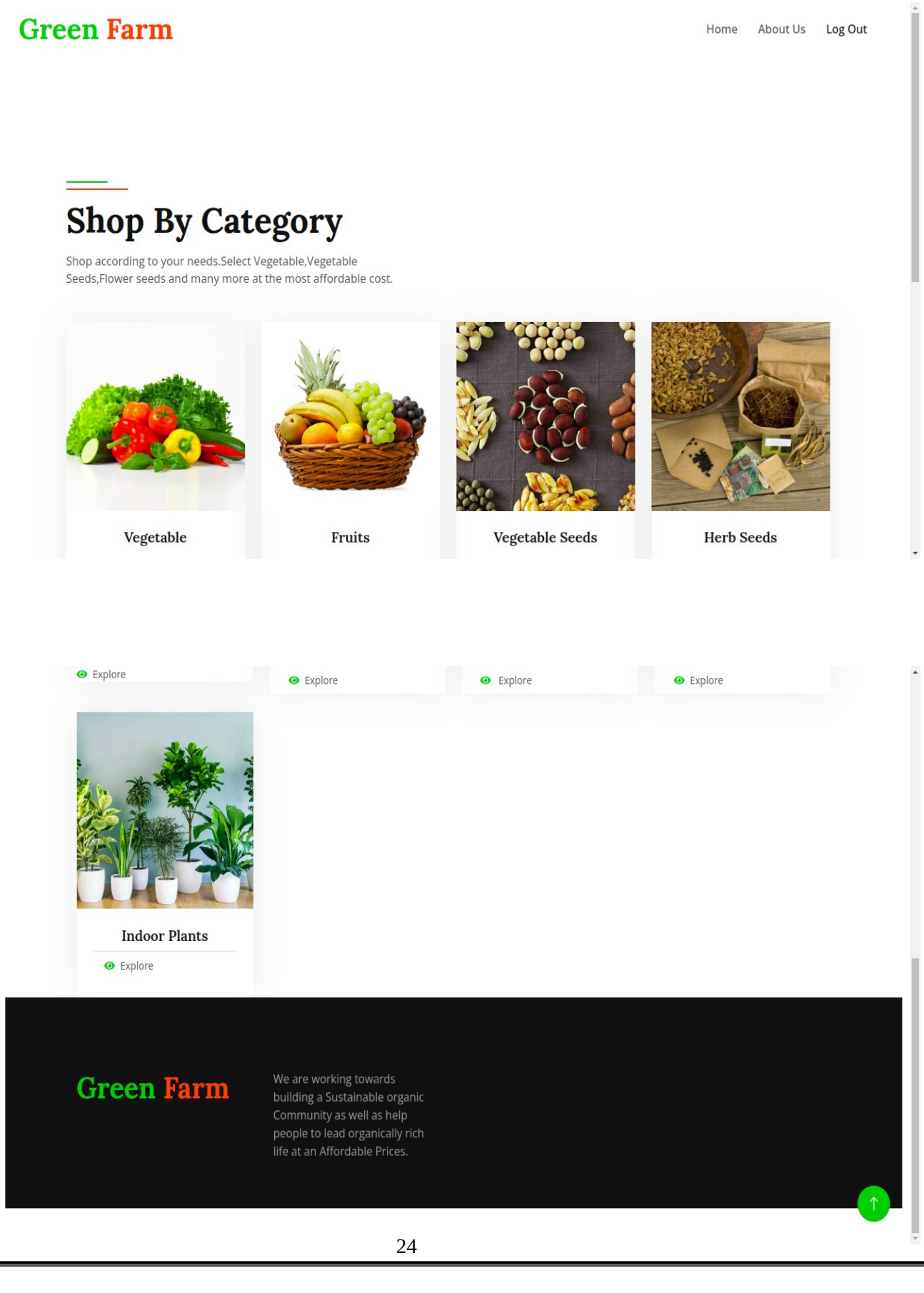
Registration Page:



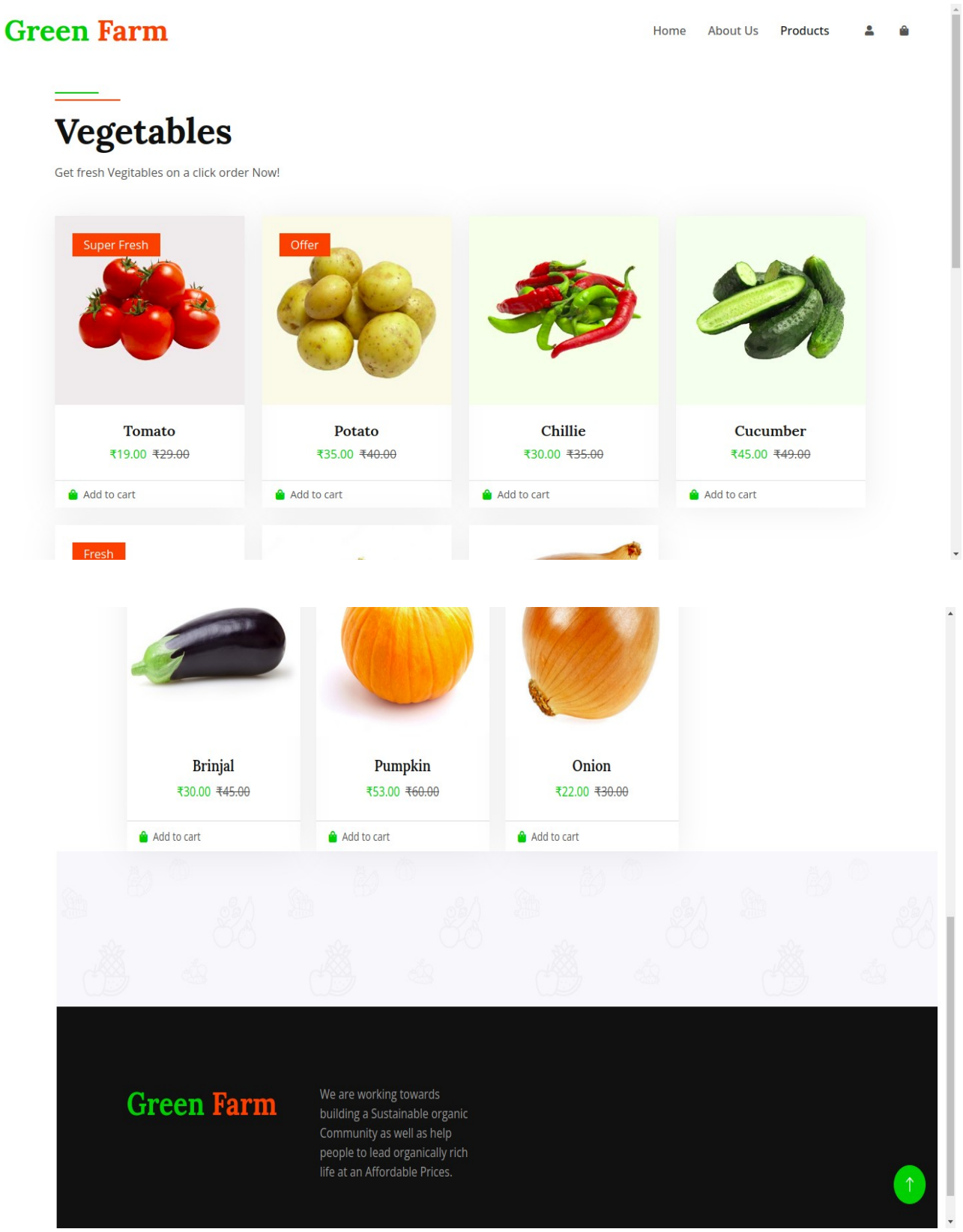
Login Page:


email
password
LOGIN
GREEN FARM
We are working towards building a Sustainable organic Community as well as help people to lead organically rich life at an Affordable Prices.
GO BACK

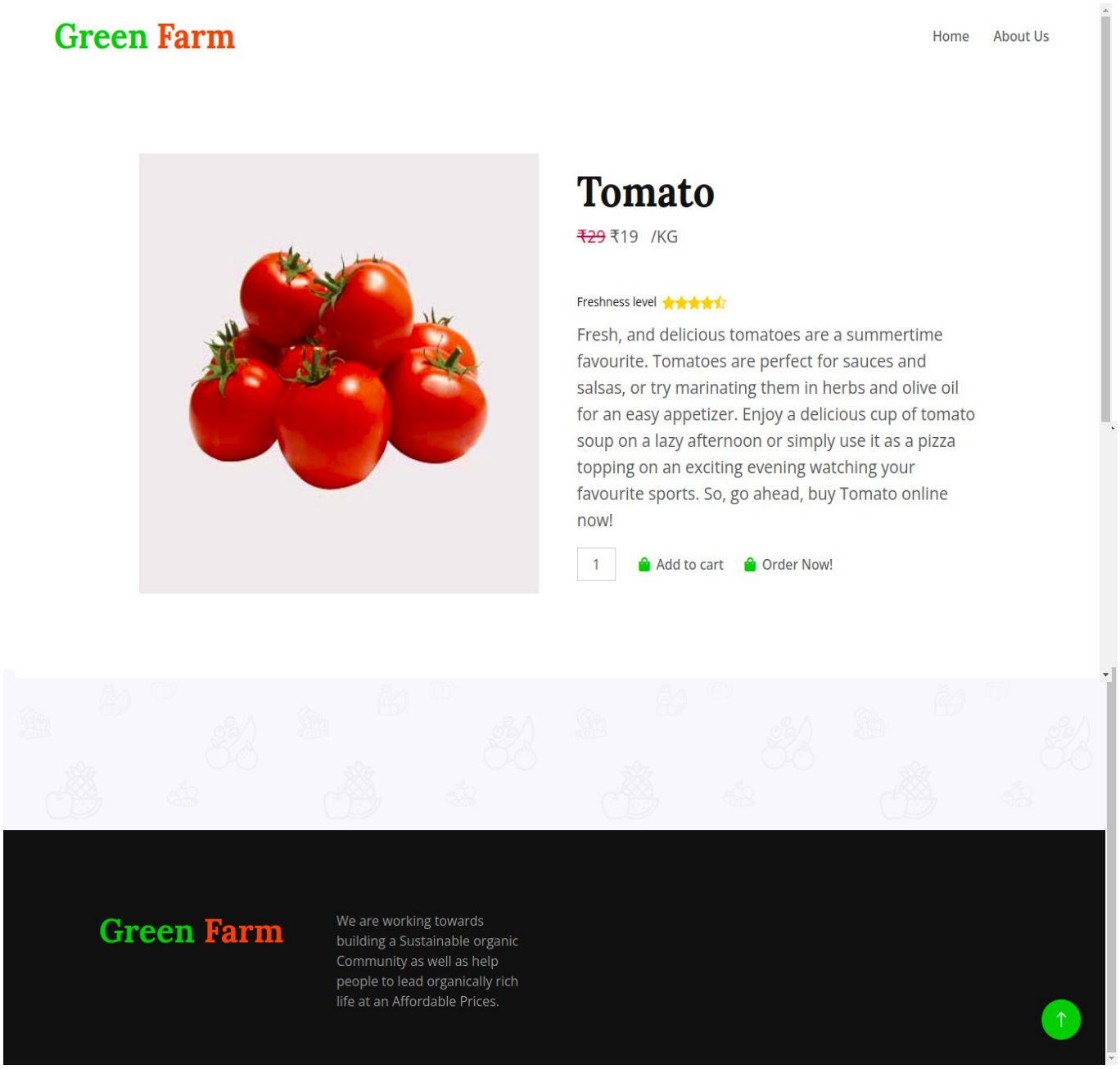
Home Page:


Green Farm
Home
About Us
Log Out
Shop By Category
Shop according to your needs.Select Vegetable,Vegetable Seeds,Flower seeds and many more at the most affordable cost.
Vegetable
Fruits
Vegetable Seeds
Herb Seeds
Explore
Explore
Explore
Explore
Indoor Plants
Explore
Green Farm
We are working towards building a Sustainable organic Community as well as help people to lead organically rich life at an Affordable Prices.

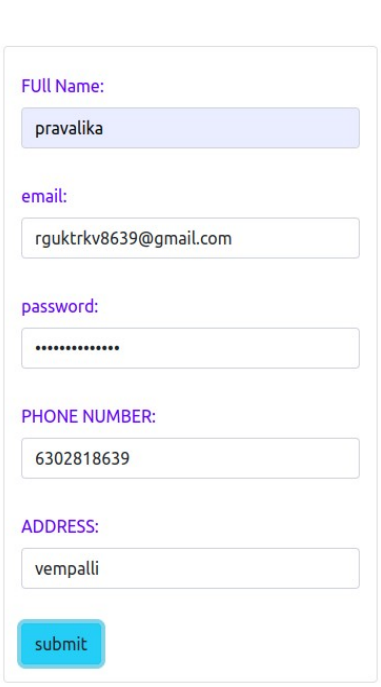
Category Page:



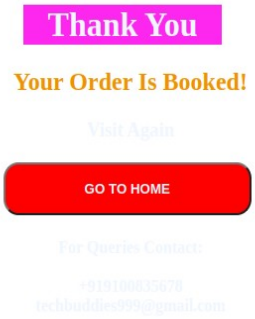
Description Page:



OrderNow Page:



Output:



AboutUs Page:

Green Farm

Home

About Us

Pujitha Chapati

Iam Pujitha, studying 3rd Year in Computer Science Branch and in this project I have shared the frontend and Document Preparation works.

Surekha Bodicherla

Iam Surekha , studying 3rd Year in Computer Science Branch and in this project I have shared the frontend and Backend works.

Pravalika Dasari

Iam Pravallika , studying 3rd Year in Computer Science Branch and in this project I have shared the frontend and Surveyer works.

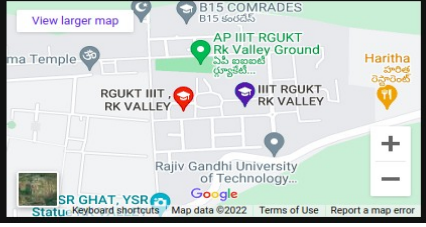
Green Farm

We are working towards building a Sustainable organic Community as well as help people to lead organically rich life at an Affordable Prices.

Address

RGUKT RK VALLEY

greenfarm@gmail.com



Conclusion

GREEN FARM is an E-Commerce website where buyers purchase Organic products. Here,we are getting this organic products directly from farmers. Farmers also get benfited rates.The project main aim is to provide only organic products such as Organic Vegetables, Organic Fruits, Organic Vegetable Seeds, Organic Herbal Seeds & Indoor Plants. It brings the Farmers and customers closer through this Website. It makes the process easy to the customers who wants to buy only orgainc products.

References

For bootstrap

- https://getbootstrap.com/
- https://getbootstrap.com/docs/4.3/getting-started/download/

For PHP

- https://www.w3schools.com/php/default.asp
- https://www.sitepoint.com/php/
- https://www.php.net/

For MySQL

- https://www.mysql.com/
- http://www.mysqltutorial.org

For XAMPP

- https://www.apachefriends.org/download.html

**********THANKYOU**********