FARMER'S MARKET

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING

RGUKT
Rajiv Gandhi University Of Knowledge Technologies
R.K. VALLEY

Submitted by

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Under the Esteemed guidance of
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RGUKT RK Valley.

DECLARATION

We hereby declare that the report of the B.Tech Mini Project Work entitled **“FARMERS MARKET”** which is being submitted to Rajiv Gandhi Universityof Knowledge Technologies, RK Valley, in partial fulfillment of the requirements for the award of Degree of Bachelor of Technology in Computer Science and Engineering, is a bonafide report of the work carried out by us. The material contained in this report has not been submitted to any university or institution for award of any degree.

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RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES

(A.P.Government Act 18 of 2008)
RGUKT, RK VALLEY
Department of Computer Science and Engineering

CERTIFICATE FOR PROJECT COMPLETION

This is certify that the project entitled **"FARMERS MARKET"** submitted by **C.Swetha(R170370),M.Rekha(R170505),**under our guidance and supervision for the partial fulfillment for the degree Bachelor of Technology in Computer Science and Engineering during the academic semester-2 2021-2022 at RGUKT, RK VALLEY. To the best of my knowledge, the results embodied in this dissertation work have not been submitted to any University or Institute for the award of any degree or diploma.

Project Internal Guide	**Head of the Department**
Mr.N.Satya Nandaram	Mr.M.Harinadha
Assistant Professor	HOD OF CSE
RGUKT, RK Valley	RGUKT, RK Valley

Abstract

This is a web based portal for customers and farmers.COVID-19 took a toll on the global economy especially on the vulnerable sectors like small businesses and agriculture, e- commerce is clearly beginning to have a major impact in the agricultural sector. The way people go about purchasing agricultural products is of great concern. Most of the time customers have to travel far distances to get agricultural products and getting the right quality is not ensured. Our project aims to help farmers as well as customers for buying and selling agricultural products in a computerized approach. This website will help the farmers to sell their products with a new technique by removing the middle man. The website builds a platform for farmers to ensure greater profitability through end user communication.

The website will act as a bridge between farmers and buyers. This website will serve as a way for the farmers to sell their products just with some basic

knowledge about how to use the website.

Acknowledgement

We would like to express our sincere gratitude to Satya Nandaram N, my project internal guide for valuable suggestions and keen interest throughout the progress of our course of mini project.

we would like to thank “Rajiv Gandhi University of Knowledge Technologies, RK Valley” for providing all the necessary resources for the successful completion of our course work. At last, but not the least we thank our teammates, our classmates and other students for their physical and moral support.

Table of Contents

Farmers Market SRS Document

Introduction:

This document has requirements of farmers and customers for selling and buying the agricultural products.it will help farmers for getting fair price without including the middleman.

1.1 : Purpose

The main purpose of this project is to build a website that connects farmers with potential buyers for selling their crop.This project will help farmers to sell their crop over the internet.This platform will be a bridge between farmers and their potential customers without including the middleman.

1.2 : Intended Audience

The intended audience will be the customers who can access the platform to get products directly from farmers and also they can post ratings for the products.

Users :

1. Farmers
2. Customers

Product Vision:

Vision Statement :

The product vision is to develop a web based platform which is user friendly and easily accessible.This farmers market helps to provide the organic products for the customers directly from farmers.

Technologies Used:

- Html
- CSS
- JavaScript
- PHP
- SQL

REQUIREMENT ANALYSIS

2.1 SOFTWARE REQUIREMENTS

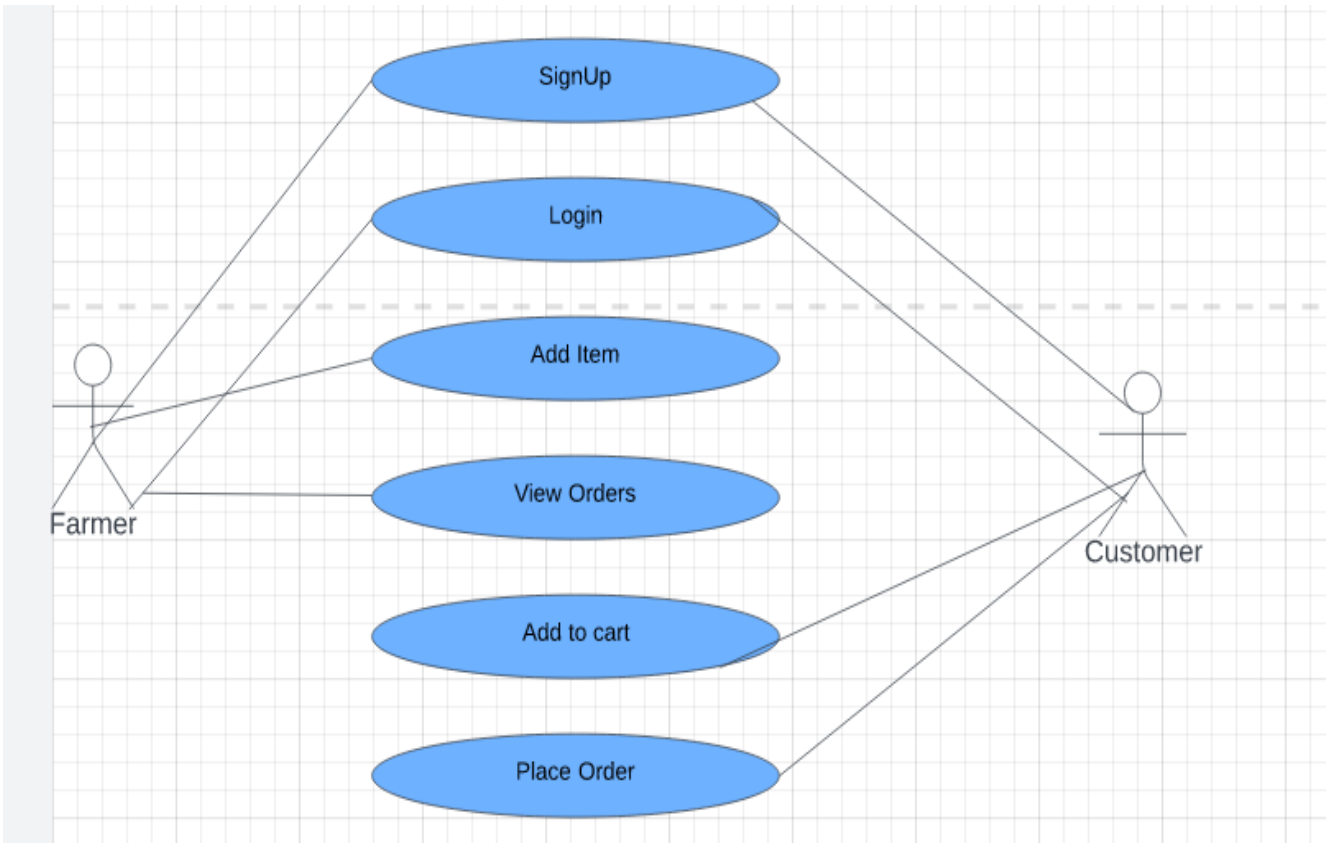
- Text Editor
- XAMPP Server
- Web Browser(Chrome , Firefox etc)
- phpMyAdmin

2.2 HARDWARE REQUIREMENTS

- Laptop/Desktop
- RAM: 4GB
- Ethernet Connection (LAN) OR a wireless adapter (Wi-Fi)
- Intel Core i3 5th generation or later

Functional Requirements

Usecase Diagram



SYSTEM ARCHITECTURE

Front-End(HTML,CSS,JS)

The web application is created using HTML ,CSS,Javascript.In this application front-end is connected to the back-end through the http request.

MySQL Database

MySQL Database is used to store the details of farmers and customers which consists of all the details of the farmer and customer about the login and products and its is again inserted in the local host XAMMP.

This function response the details from the database and checks whether the data provided by the user is correct as per the values inserted and if it is correct then user can login.

Back-End

The backend is designed with PHP, and whatever is working in the back-end is connected with the front-end through HTTP request.

The back-end gets the login user through MySQL database which is connected through “sql_i_connect” and gets all the inputs from the

database and performs the further operations.It is working as a backbone of the particular function.

Farmer Module

This module has all the activities that the farmer can perform.The farmer can insert the products,view orders and update status of order. The farmer can deliver the products through courier or by themselves.

Buyer Module

This function contains all the activities of the buyer as per their requests.The buyer can visit the site by proper login details so the farmers can see the full details of buyer and deliver the products according to buyer needs.

Introduction

Farmer’s Market is a platform created for farmers and normal people to buy and sell crops. This platform creates an oppurtunity for farmers to sell their products directly to customers without the involvement of third party

such as middleman,mandis etc., In this platform a buyer can search for the organic products and other specific products of their interest. Through this platform buyer get the product at good prices which will satisfy to farmers and customers. Customers can order from any farmer near or far from his location .This platform is created for the benefit of farmers and customers.

Actors:

This system interacts with two kinds of users -farmer and customer.Each user has their own functions to access with the system.the functionalities of users are dependent on each other.

Events:

1.Farmers Module

This function has all activities that the farmer can perform.farmer can register ,login ,add new products ,view products and the farmer can deliver the products though courier or by themselves.

2.Buyer Module

This function contain the activities of the buyer as per their request.the buyer can register ,login ,add to cart ,place order and enter their details so that farmer can see full details of the buyer.

Approach

Web Frameworks:

A web framework or web application framework is a software framework that is designed to support the development of web applications including web services, web resources, and web APIs. Web frameworks provide a standard way to build and deploy web applications on the World Wide Web.

Web frameworks are playing a major role in the creation of today's most compelling web applications, because they automate many of the tedious tasks, allowing developers to instead focus on providing users with creative and powerful features.

➢ **Database** – Today nearly all web development frameworks are database driven.They provide support to multiple databases like MySQL, SQL + +, Oracle, and others. Every dynamic application facilitates the end-user to add, delete, and maintain records.

➢ **Rest APIs** - REST is an acronym for Representational State Transfer Sharing data between two or more systems has always been a fundamental requirement of software development. A REST API is a way for two computer systems to communicate over HTTP in a similar way to web browsers and servers. Similar to REST, you may encounter CORBA, SOAP, or XML-RPC e.t.c which usually establish strict messaging rules.

➢ **URL Mapping** – This feature allows the framework to interpret a URL with ease and simplification for the user. URL mapping simply means URL simplification.

Hosting Files

A web server first has to store the website's files, namely all HTML documents and their related assets, including images, CSS stylesheets, JavaScript files, fonts, and videos. Technically, you could host all those

files on your own computer, but it's far more convenient to store them all on a dedicated web server that

● is always up and running

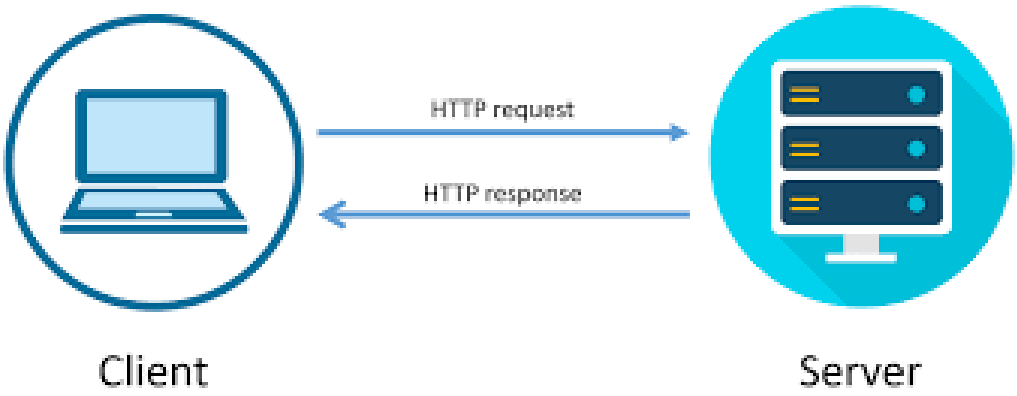
● is always connected to the Internet

● has the same IP address all the time (not all ISPs provide a fixed IP address for home lines)

● is maintained by a third-party provider

HTTP communication:

A web server provides support for HTTP (**H**ypertext **T**ransfer **P**rotocol). As its name implies, HTTP specifies how to transfer hypertext (i.e., linked web documents) between two computers.



HTTP Communication

A Protocol is a set of rules for communication between two computers.

HTTP is a textual, stateless protocol. HTTP provides clear rules for how a client and server communicate. Only clients can make HTTP requests, and then only to servers. Servers can only respond to a client 's HTTP request.

- When requesting a file via HTTP, clients must provide the file's URL.
- The web server must answer every HTTP request, at least with an error message.

Dynamic Content

“Dynamic” means that the server processes the content or even generates it on the fly from a database. This solution provides more flexibility, but the technical stack becomes more difficult to handle, making it dramatically more complex to build the website.

HTML, CSS & JAVASCRIPT:

An overview:

HTML is short for Hypertext Markup Language. HTML is used to create electronic documents (called pages) that are

displayed on the World Wide Web. Each page contains a series of connections to other pages called hyperlinks. HTML provides the basic structure of sites, which is enhanced and modified by other technologies like CSS and JavaScript.

CSS is the language for describing the presentation of Web pages, including colors, layout, and fonts. It allows one to adapt the presentation to different types of devices, such as large screens, small screens, or printers. CSS is used to control presentation, formatting, and layout.

JavaScript is a client scripting language which is used for creating web pages. It is a standalone language developed in Netscape. It is used when a webpage is to be made dynamic and add special effects on pages like rollover, roll out and many types of graphics.

Test Driven Development:

• Before you write implementation code, write some code that proves that the implementation works or fails. Watch the test fail before moving to the

next step (this is how we know that a passing test is not a false positive — how we test our tests).

• Write the implementation code and watch the test pass. Refactor if needed. You should feel confident refactoring your code now that you have a test to tell you if you've broken something.

• On the surface, it may seem that writing all those tests is a lot of extra code, and all that extra code takes extra time. At first, this was true for me, as I struggled to understand how to write testable code in the first place, and struggled to understand how to add tests to code that was already written.

Agile Development:

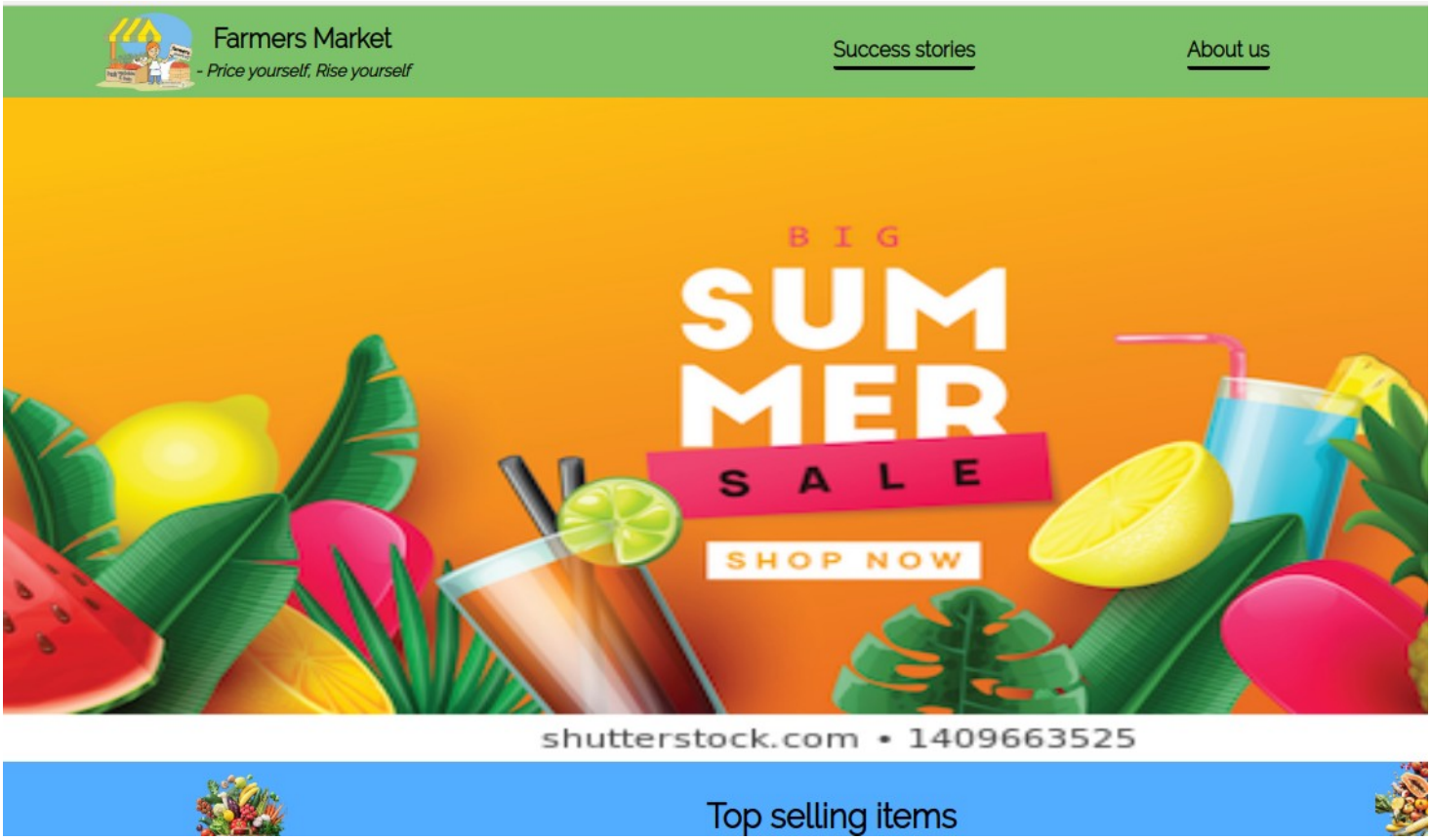
• Agile is the ability to create and respond to change. It is a way of dealing with, and ultimately succeeding in, an uncertain and turbulent environment.

• One thing that separates Agile from other approaches to software development is the focus on the people doing the work and how they work together. Solutions evolve through collaboration between selforganizing cross-functional teams utilizing the appropriate practices for their context.

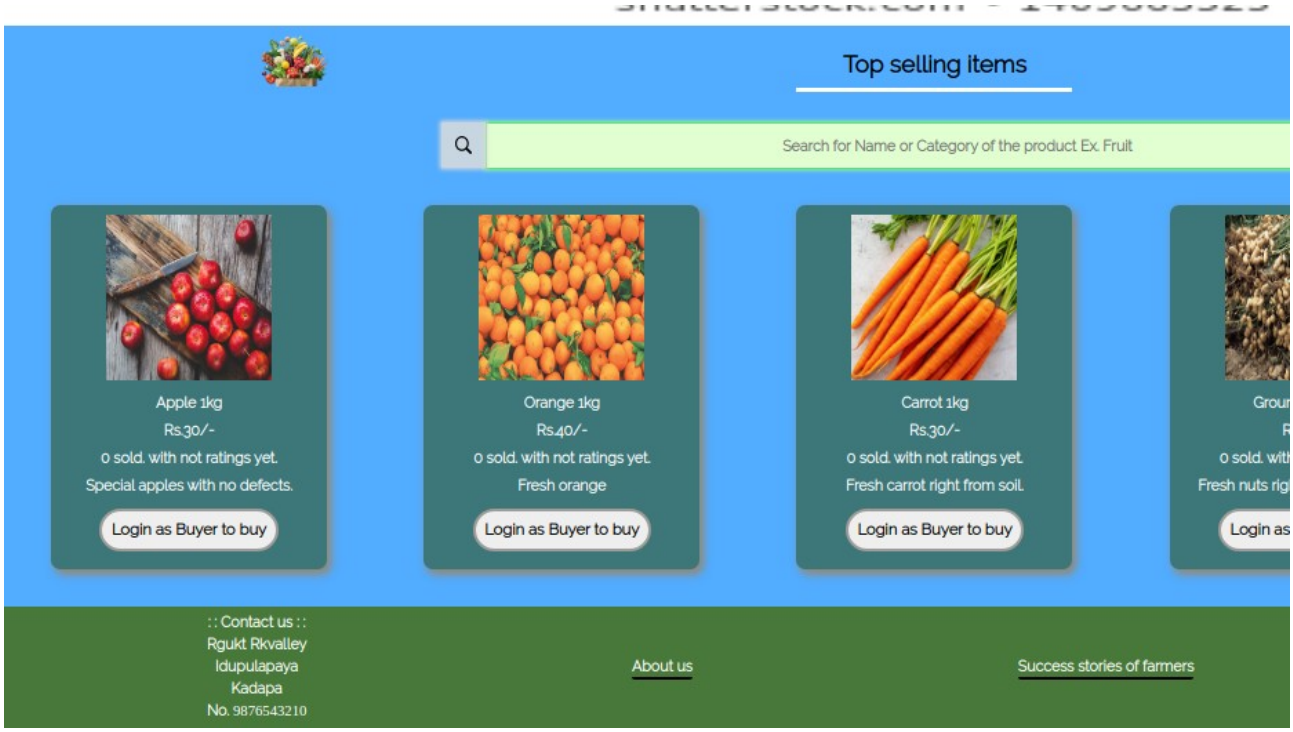
• When most teams and organizations start doing Agile software development, they focus on the practices that help with collaboration and organizing the work, which is great. However, another key set of practices that are not as frequently followed but should be are specific technical practices that directly deal with developing software in a way that helps your team deal with uncertainty. Those technical practices are essential and something you shouldn’t overlook.

Features:

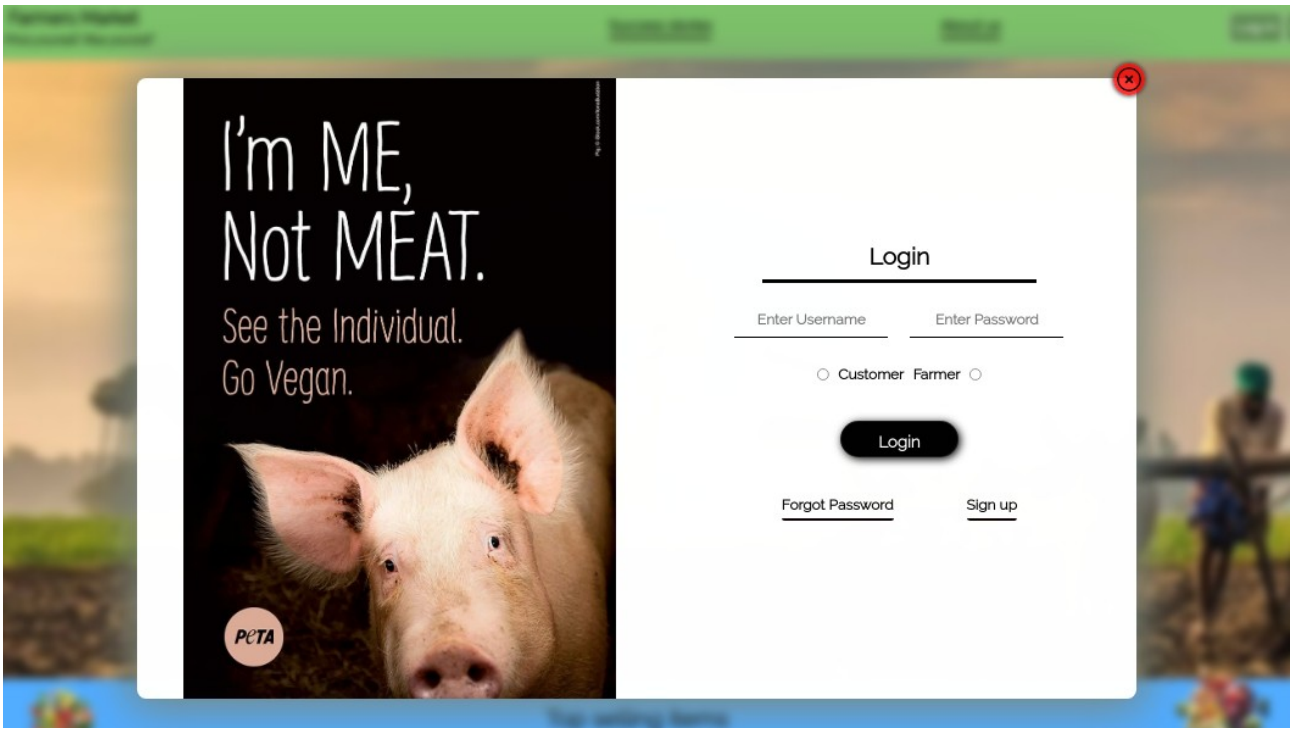
1.Home page



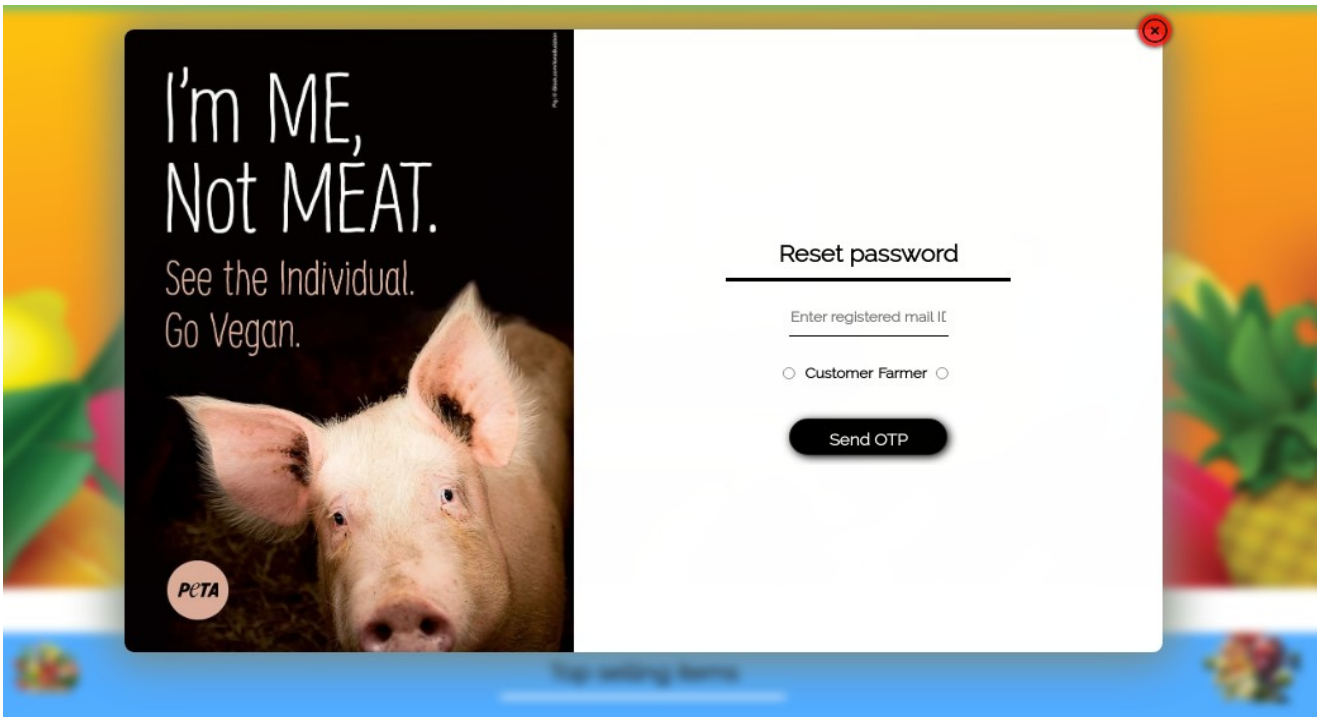
2.Search page



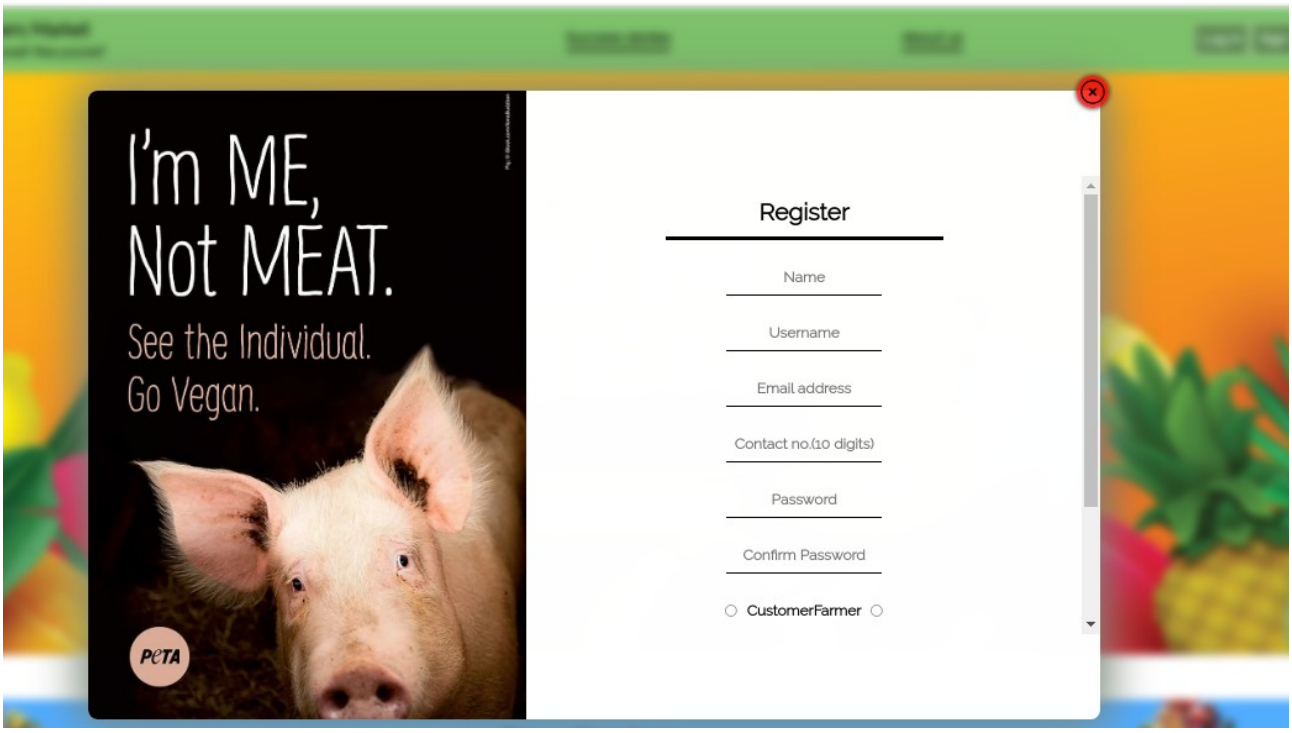
3.Login Page



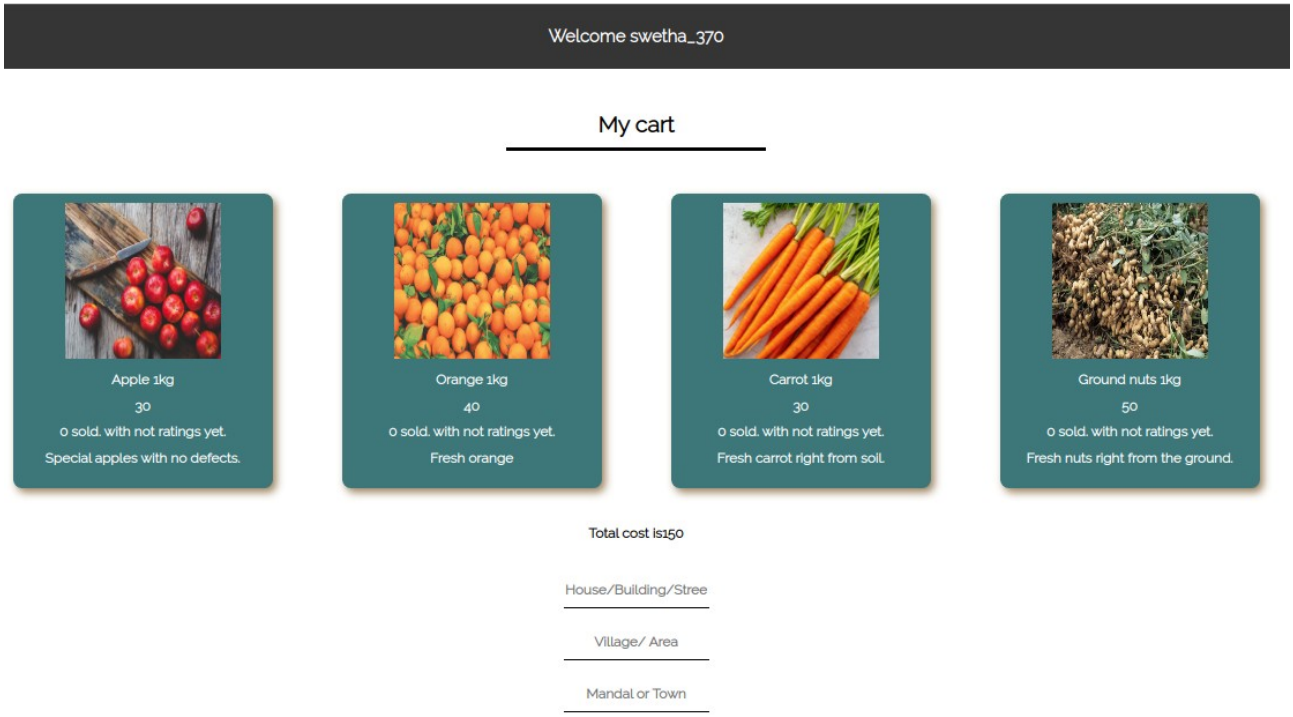
4.Forgot Password Page



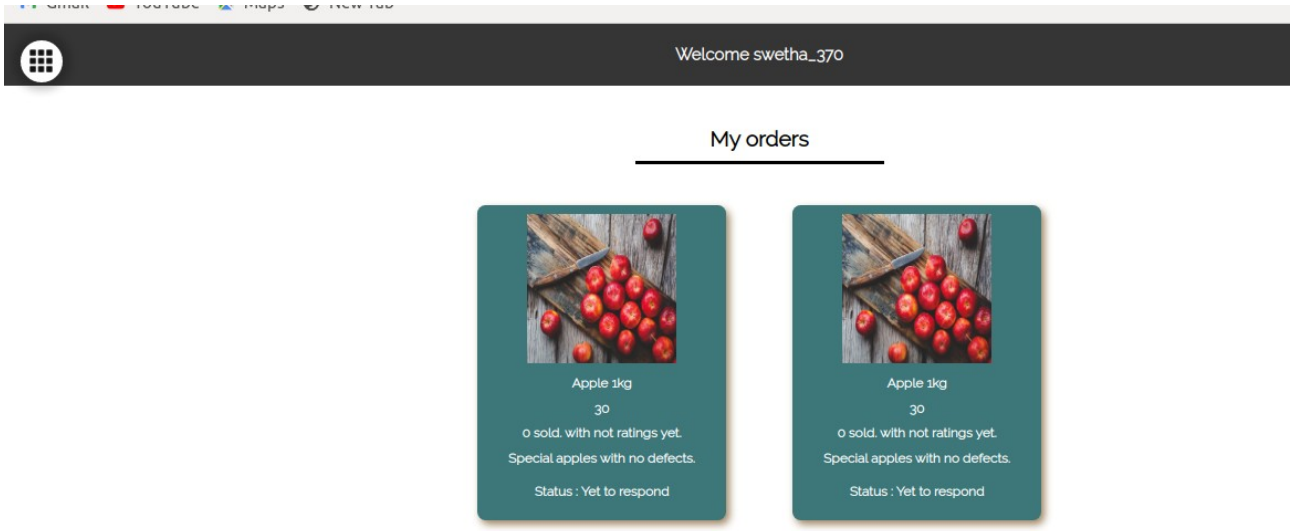
5.Register page



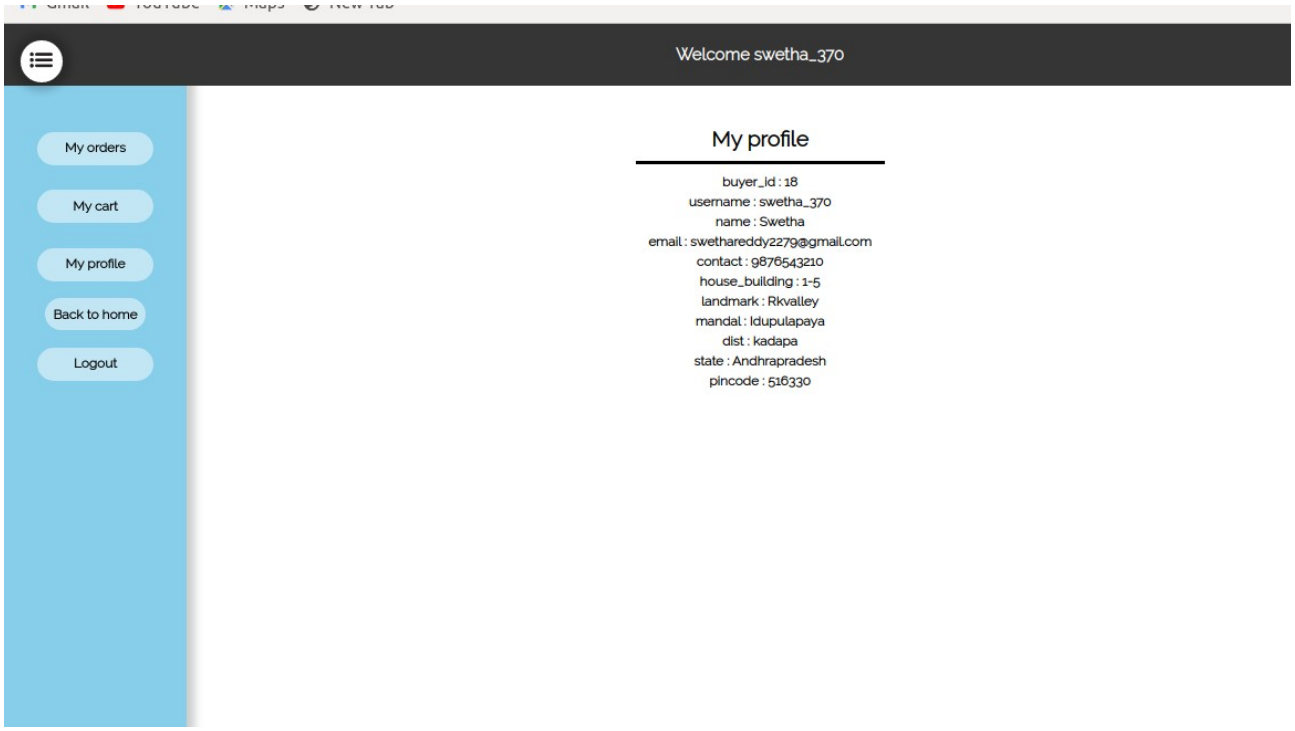
6.My cart Page



7.My orders Page

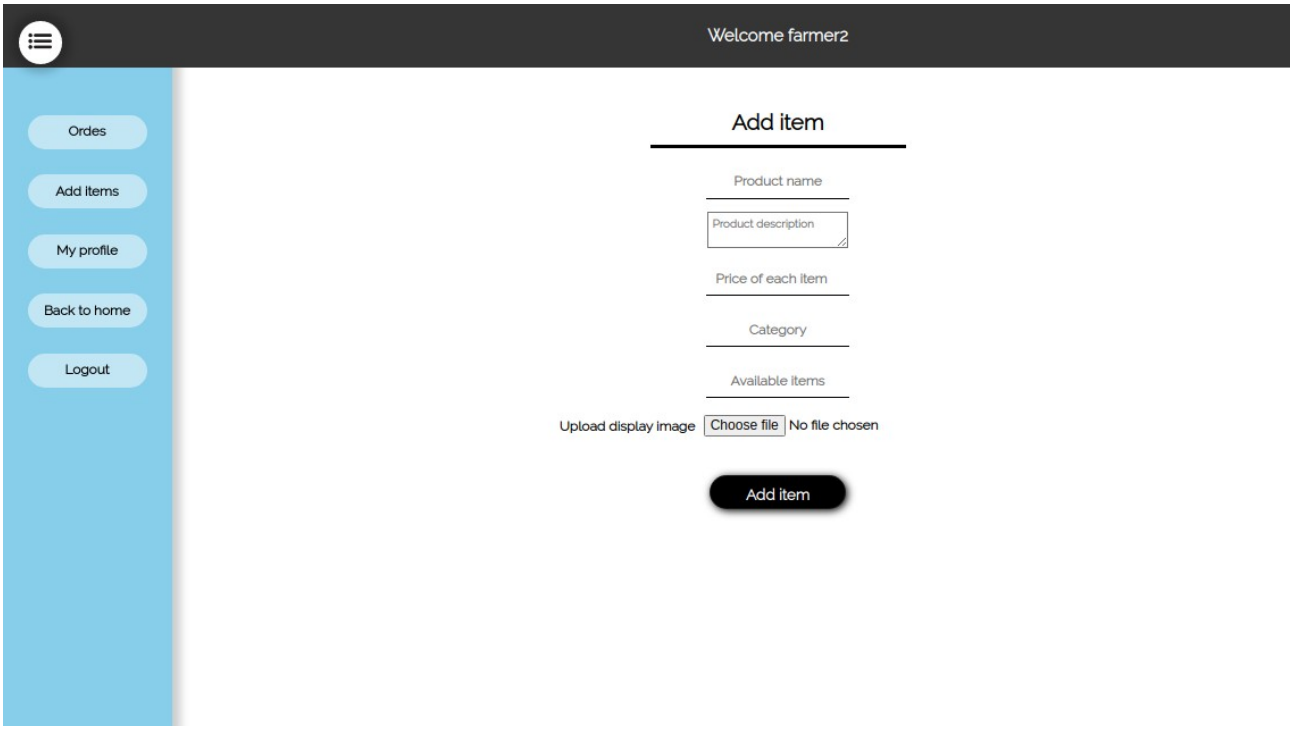


8.My profile page

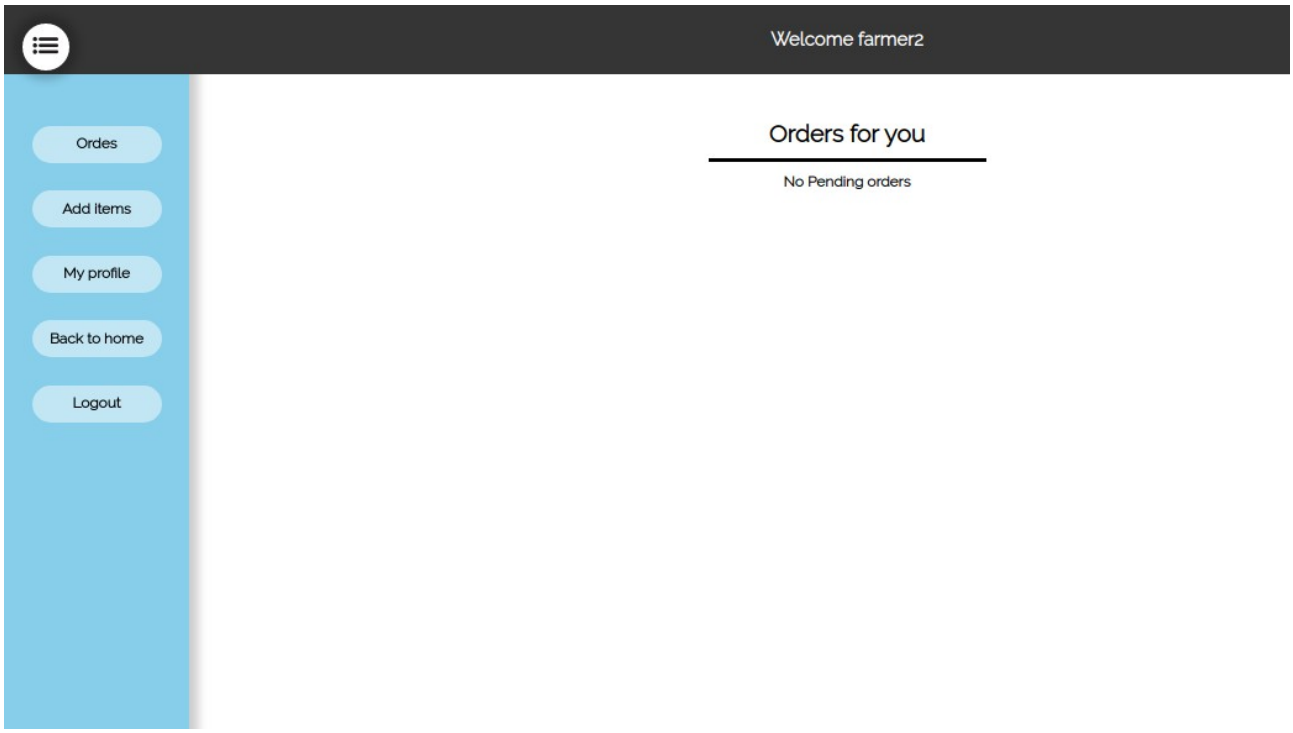


Features of farmers

1.Add products



2.View orders from customers



CONCLUSION AND FUTURE WORK

CONCLUSION

According to our problem statement ,we required to create a platform for farmers to sell their goods directly to customers for a better margin instead of selling it to the merchnats who offer a lower price.This way the Farmers can easily get more profit.This web application is clean and user friendly which makes easier to use for both farmers and buyers.Hence ,our platform is working as expected.

FUTURE WORK

In the future ,the team intents to implement a payment gate way for cash on delivery(COD) and payTM.And also,we are going to implement a call center for queiries and complaints.The buyer can complain to farmer if any defective product or any query.

And we will also try to implement tjis in a large scale by hosting it globally.

REFERENCES

1. Peter Namisiko and Moses Aballo “Current Status of e-Agriculture and Global Trends: A Survey Conducted in TransNzoia County, Kenya” in International Journal of Science and Research Volume 2 Issue 7, 2013.

2. Nidhi Dwivedy “Challenges faced by the Agriculture Sector in Developing
Countries with special reference to India” in International Journal of Rural Studies
vol. 18 no. 2, 2011.

3. Mu, H.L.; Lee, Y.C. Examining the influencing factors of third-party mobile payment adoption: A comparative study of Alipay and WeChat pay. J. Inform. Syst. 2017, 26, 257–294.

4. Liu, M.; Zhang, Q.; Gao, S.; Huang, J.K. The spatial aggregation of rural e-commerce in China: An empirical investigation into Taobao Villages. J.
Rural Stud. 2020, 80, 403–417. [CrossRef]

5. Malhotra, R.; Malhotra, D.K. The impact of internet and e-commerce on the evolving business models in the financial services industry. Int. J. Electron. Bus.2006, 4, 56–82. [CrossRef]

6. Baourakis, G.; Kourgiantakis, M.; Migdalas, A. The impact of e-commerce on Agro food cooperatives, firms and consumers in Crete. Br. Food J. 2002, 104, 580–590. [CrossRef]

7. Kim, J.B. An empirical study on consumer first purchase intention in online
shopping: Integrating initial trust and TAM. Electron. Commer. Res. 2012, 12, 125–150. [CrossRef]

8. Sekyi, S.; Abu, B.M.; Nkegbe, P.K. Effects of farm credit access on agricultural
commercialization in Ghana: Empirical evidence from the northern Savannah ecological zone. Afr. Dev. Rev. 2020, 32, 150–162. [CrossRef]

9.Turvey, C.G.; Xiong, X. Financial inclusion, financial education, and e-commerce in rural China. Agribusiness 2017, 33, 279–285. 123–139.

10. Ren, J.Z.; Sun, H. Acceptance behavior of internet wealth management based on user risk perception: The case of Alibaba's Yuebao. In Proceedings of the 2017 International Conference on Management Engineering, Software Engineering andService Sciences, Wuhan, China, 14–16 January 2017.

11. Chiu, Y.P.; Lo, S.K.; Hsieh, A.Y.; Hwang, Y.J. Exploring why people spend more time shopping online than in offline stores. Comput. Hum. Behav. 2019, 95, 24–30.

12. Baourakis, G.; Kourgiantakis, M.; Migdalas, A. The impact of e-commerce on agro-food marketing: The case of agricultural cooperatives, firms and consumers in Crete. Br. Food J. 2002, 104, 580–590.
13. Qu Xiaojing, "Comparison and Research of Agricultural Website", May 2005.

14. Darcy Miller, Jake McCarthy, Audra Zakzeski"A Fresh Approach to Agricultural Statistics: Data Mining and Remote Sensing" in National Agricultural Statist Service.

References

https://www.w3schools.com/html/

https://www.w3schools.com/js/

https://www.phpmyadmin.net/

https://www.w3schools.com/php/

https://www.tutorialspoint.com/sql/index.html/