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K J Somaiya Institute of Engineering and Information Technology
An Autonomous Institute Permanently Affiliated to the University of Mumbai
Accredited by NAAC with 'A' Grade (3.21 CGPA), Approved by AICTE, New Delhi

DEPARTMENT OF INFORMATION TECHNOLOGY

Synopsis of Minor Project On

AGROCENTRE WEBSITE

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Department of Information Technology

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CERTIFICATE

This is to certify that following students:

	Roll No. / Seat No.
Burhanuddin Dilshad	11
Viraj Gholap	16

have submitted PBL – Minor Project Lab I Report on *"*AGROCENTRE WEBSITE*"* as the partial fulfillment for the requirement of Third Year of Engineering (5th Semester) in T.Y. - Information Technology under my guidance during the academic year 2021-2022.

Dr. Mansingh Rathod
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Department of Information Technology

Date of Examination: 13 November 2021

Signature of Internal Examiner

Signature of External Examiner

Table of Contents

Acknowledgement

We would like to convey our sincere thanks to everyone who guided us throughout this project endeavor, before we present our project entitled “AgroCentre website”. We wish to express our sincere thanks to Dr. Suresh Ukarande, our Principal, and Dr. Sunita Patil, our Vice-principal for providing us with all the necessary facilities for the research. We place on record, our sincere thank you to Dr. Radhika Kotecha, Head of Department, for the continuous encouragement and support. We are also grateful to our project guide Dr. Mansingh Rathod for mentoring us.

We are extremely thankful to her for sharing expertise, and sincere and valuable guidance and encouragement extended to us. We take this opportunity to express gratitude to Dr. Mansignh Rathod, Minor-Project coordinator for her valuable guidance, help and support. We also thank our parents for unceasing encouragement, support and attention.

Abstract

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. Besides, farming is the prime occupation in India. Indian people involved in farming are mostly cheated by the agents in today's market which leads to poverty. Our project aims to help farmers as well as customers for buying and selling agricultural products across the country using a computerized approach. The website will guide the farmers to access new farming techniques, compare current market rate of different products, the total sale and the earned profit for the sold products. The website builds a platform for farmers and agents to ensure greater profitability through direct farmer to farmer, farmer to agent and farmer to customer communication. The website will act as a unique and secure way to perform agro-marketing. E-farming will serve as a way for the farmers to sell their products across the country just with some basic knowledge about how to use the website. This project allows viewing various products available enables users to purchase desire products instantly by online payment. This website would be developed using web service as the communication infrastructure between the buyer and farmers and also products selling.

Chapter 1: Introduction

Ecommerce is fast gaining ground as an accepted and used business paradigm. More and more business houses are implementing web sites providing functionality for performing commercial transactions over the web. It is reasonable to say that the process of shopping on the web is becoming common place. It is the buying and selling of goods and services, or the transmitting of funds or data, over an electronic network, primarily the internet. These business transactions occur either as business-to-business, business-to-consumer, consumer-to-consumer or consumer- to-business. The terms e-commerce and e-business are often used interchangeably.
The main objective of this project is to help farmers ensure greater profitability through direct farmer to farmer, farmer to customer & farmer to dealer communication. Our project deals with respect to the farmers benefit of getting their products sale at a best price online. Here, the main users of this website are farmer, customer, dealer and admin. Farmers will get unique interface where they can perform marketing, get the correct rates of the market, get in touch with SMS or Email and gather knowledge of different schemes and get pay online. It will provide market wise, commodity wise report to the farmer in interactive way. The centralized market committee will control all business activities.

1.1 Motivation

India is agricultural country. Majority of Indian people live on agricultural. So, Agricultural institutes, research bases agencies and other resources related to agriculture in India is vitally important. Now a day, the farmers have to go to the nearest market to hand over his product to a particular agent where agent sells the product to another agent or a dealer. After a specific time the agent gives the collected cash out of the sold products to the respected farmer but

every Agent tries to cuts his commission out of the earned amount. The whole process is not transparent as there is no way for farmer to know about the deal and the exact amount at which their product was sold. No facility is present for the farmers to know the product rates at different markets where they can sell their products for achieving high profits.

1.2 Objectives

- Main objective of this project is to build a platform for farmers to sell their product and track the sale.
- This platform is flexible which can maneuver the vendor-farmer relationship in an effective manner.
- Farmer will get unique interface where they can avail everything right from learning to the market information.
- This website will act as unique and secure way to perform agro-marketing.

1.3 Scope

- Introduce crop-disease detection system
- Blog module for reviews from agro-industry experts
- Availability in regional language
- Farmer donation fundraiser
- Introducing basket making process

Chapter 2: Literature Review

A considerable amount of research has been done on the working a performance of agricultural marketing in India, by the academicians & researchers. The literature obtained by the investigator, in the form of reports and research studies, is briefly reviewed in this part. Hoff et al. (1993) in their research paper documented that in response to the de-institutionalization of rural areas that followed state compression, the reconstruction of new agrarian institutions complementary to the market and the state is thus a fundamental element of rural development. This has taken the form of either private or cooperative organizations. Grosh (1994) believed that since the turn of the millennium, attention has shifted toward more micro level and institutional policies. In particular, contractual arrangements with downstream processors, agro exporters and retailers, often or chest rated through farmer groups, are increasingly seen as a means of overcoming the market imperfections that led to the failure of macroeconomic and sect oral adjustment policies. Reardon and Barret (2000) in their study suggest that when market reforms the commodity prices raise, stimulating an increase in production, especially of the export crops. The rise in price facilitates the establishment of super market chains, cooperatives, export oriented schemes, processing zones and general stimulation of agro industrialization in developing countries. Sivanappan (2000) in his study stated that with modernization of existing post-harvest processing, establishment of suitable infrastructural facilities, huge amount of countries exchequer can be saved and further helps in feeding the teeming population in the country . Hota et al. (2002) in their study viewed that cooperatives occupy an important part in India's economy in terms of their coverage of rural producers, business turnover and contribution to economic welfare of their members as well as to rural economy of India. Reardon et al. (2003) in their study documented that private firms now

play a dominant role in countries such as China, India, South Africa in developing of improved seed varieties producing and distributing inputs, post-harvest operations and retailing through super markets. Royce (2004) reported, even though State agencies continue to be the main buyers of output and suppliers of input limiting cooperatives management authority within. There is much greater member participation and on-farm decision making. Ramkishen (2004) in his research paper argued that because of the lack of food processing and storage, the grower is deprived of a good price for his produce during the peak marketing season while the consumer needlessly pays a higher price during lean season. Godara (2006) in his study described that the positive trend of economic liberalization and associated opening up of Indian economy have significantly reduced the structural rigidities in the system, this trend should be premise of India's future agricultural reform. Agricultural business has come under strong and direct influence of international market. Indian farmers have to produce quality goods to meet the international standards. Brithal et al. (2007) in their study suggested that by building efficient and effective supply chain using state of the art techniques it is possible to serve the population with value added food, while simultaneously ensuring remunerative prices to farmers. Tripathi and Prasad (2009) in their paper reported that Indian agriculture has progressed not only in out-put and yield terms but the structural changes have also contributed. Pathak (2009) in his research paper stated that the contribution of agriculture in growth of a nation is constituted by the growth of the products within the sector itself as well as the agricultural development permits the other sectors to develop by the goods produced in the domestic and international market.

Chapter 3: Functionalities of Proposed System

3.1 Proposed Approach and Details

In this chapter, the Functionalities of the whole project is analyzed. In this section, use cases, requirement analysis, and other part are described in details. This AgroCentre Website required the following requirements. This has mainly two actors. Those are Admin, Customer/Farmer. This website give service to farmers.

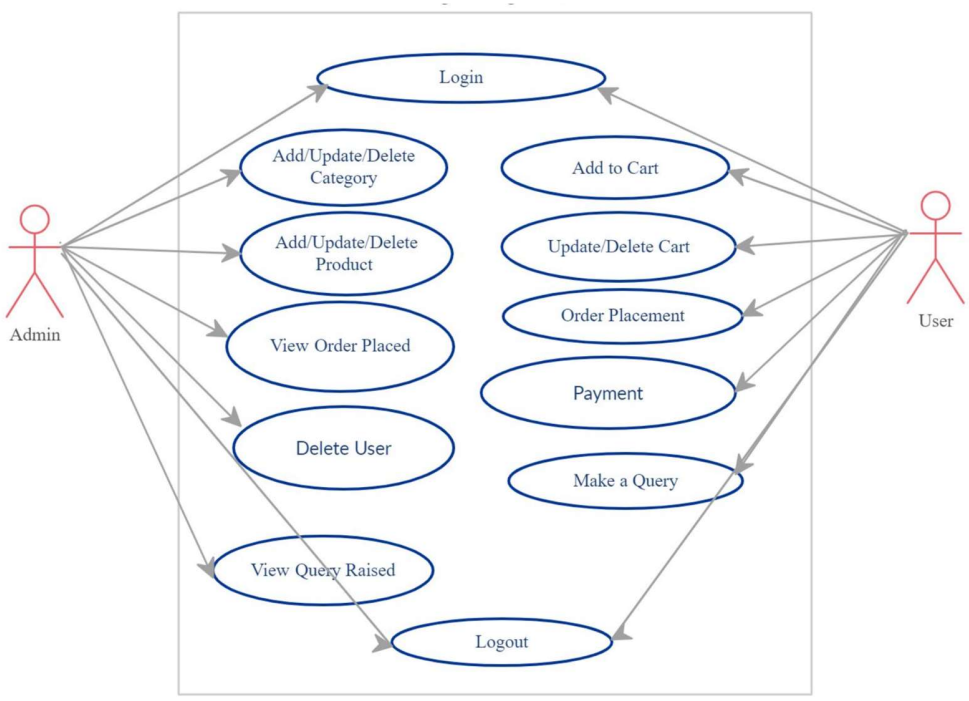


Fig.3.1 : Use Case Diagram

- At first each person needs to register (without admin) himself/herself as a customer for accessing the user's necessary information. Each user requires an unique username or email Id and password to register in the website.
- Admin/Farmer need to login to the system to operate the system. Admin/Farmer has an individual or unique login user id and password. Through this user id and password admin/farmer can login to the system.
- A customer can select a product for buying and add to cart. Customers also can pay online or cash on delivery.
- Admin can update all the information of the registered users. Any registered member can be deleted by the admin. And also view all orders and can download.
- Admin can update the category list of the product. An admin can edit or delete a category from the product category list. Admin can also insert a new category menu in the category list. Admin can also insert products with price and quantity.
- Users can raise a query & Admin can view the query raised.

3.2 Innovation in Idea

- Video Tutorial Section -Video tutorial section added where all videos related to agriculture are available this video will help farmers in farming process and to learn new technologies.
- Payment Gateway for online secure payment
- Shipping API added. So, Vendor can easily ship and fulfil customers orders.
- Email ID OTP Verification Using SMTP and Mobile OTP Verification using third party app Fast2SMS

3.3 Roles and Responsibilities

The following process requirements are identified for system:

- A valid login is required for all processes to be performed. A valid login is required for every registered user and admin. All of them have a valid user id and password. System will authenticate their valid login
- After valid login Customer / Farmer can check his/her information, can see personal information and can check product history and buy products.
- Admin can login to the system. Admin can view, delete, publish and update all members' information and product info too. Admin can also enter new categories in the list and insert new products.

Chapter 4: Implementation Details and Results

4.1 Technology Stack

To implement the project, some open source tools have been used such as XAMPP, Apache as web server. The web programing language used to implement this project are HTML (Hyper Text Markup Language), CSS (Cascading Style Sheets), JavaScript, JQuery and PHP. MySQL is used as database server.

Languages used:

Design and Interface	Programming language	Scripting language	Database
HTML, CSS , Bootstrap	PHP	AJAX, Javascript, JQuery	MySQL Server

Software Requirements:

- XAMPP 3. 3. 0
- APACHE 2. 4. 51
- My SQL Server 5. 4
- PHP 8.0.12
- Browser: Google Chrome, Mozilla Firefox

4.2 Database Implementation

After getting the requirement of a logical design and structural design of our database, we can move to the implementation stage. In general, implementing our structural design involves defining the various objects and enforcing the constraints on the data relationships. The implementation phase is where you install the DBMS on the required hardware, optimize the database to run best on that hardware and software platform, and create the database and load the data.

4.2.1 Database of Users:

In database, user database gather into user table. When user create an account then all information of user store into user table. In user table store user password, email, name, mobile number, user type, date of birth, city, address, gender and profile image. If user wants to login website then need that information. Figure 4.2.1 shows the database of user.

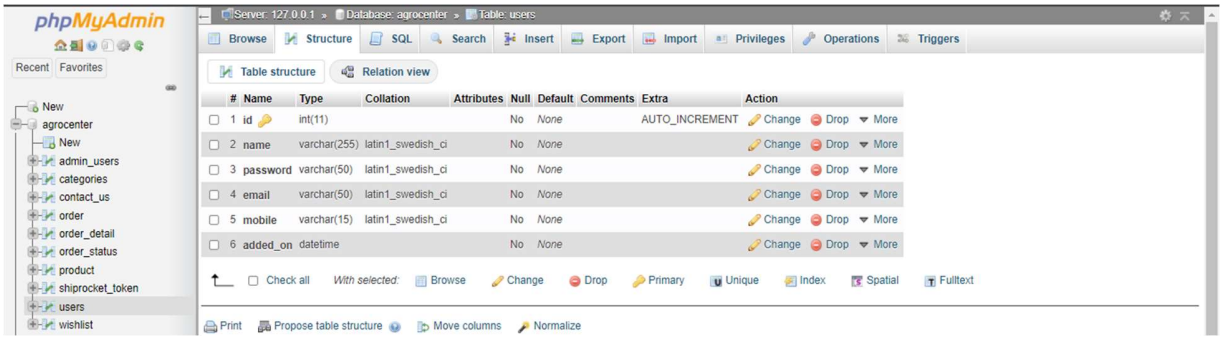


Figure 4.2.1 shows the database of user.

4.2.2 Database of Products:

Database of products store all information into product table of database. Here store product id, category, manufacturer id, product name, product comment, product price, stock and product image. Product table also store product status and publish or unpublished indicate. Figure 4.2 shows the database of products.

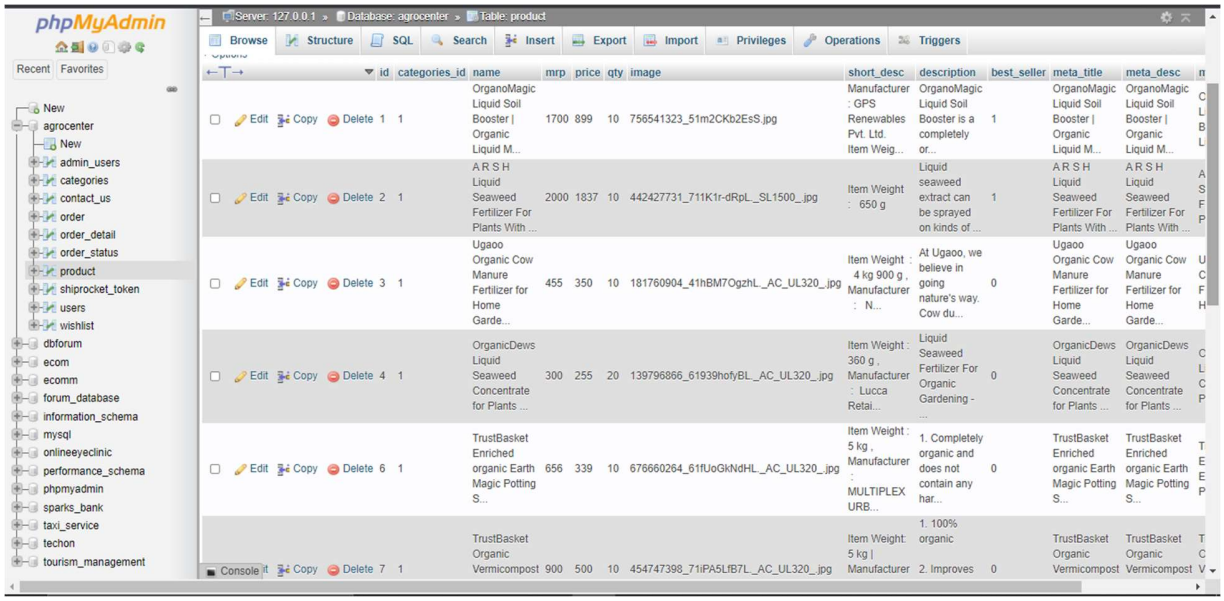


Figure 4.2.2 Database of products.

4.2.3 Database of Orders:

In order database store order status and order total price which user order in website. User can order many products in same time that time order id will be different. There have user id, shipping id and payment id for ensure all formality. Order database also have order date which date user order product and order comment too. In Figure 4.6 shows the database of orders

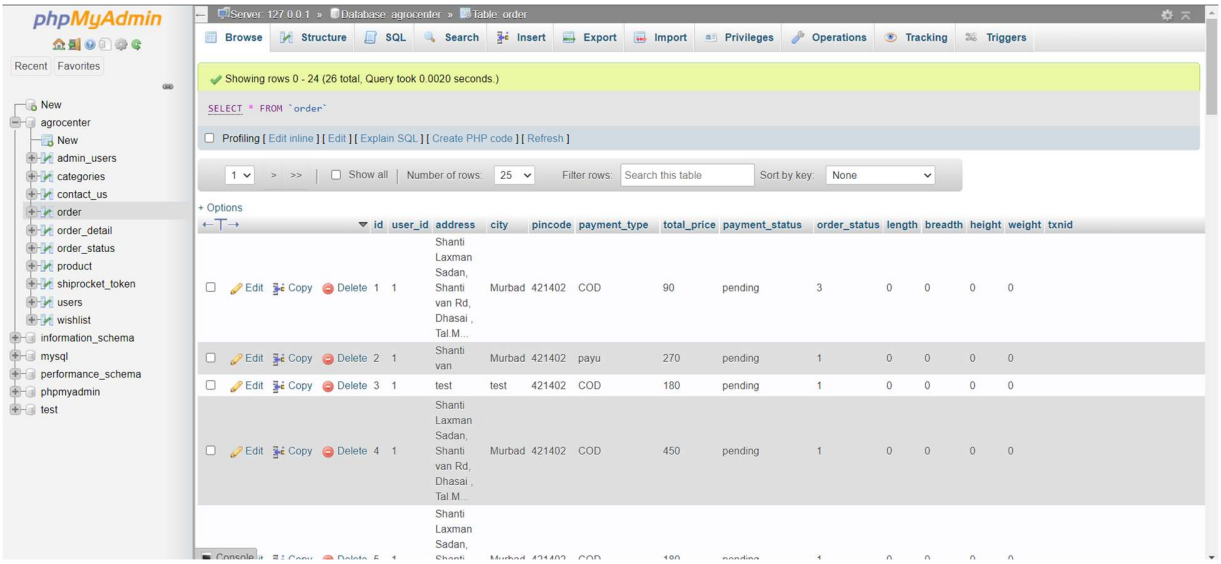


Figure 4.2.3 Database of orders

4.2.4 Database of Category:

Category database store category info into category table. This table store product category which category product add into website. Category table store category id and name.

Figure 4.2.4 shows the database of category.

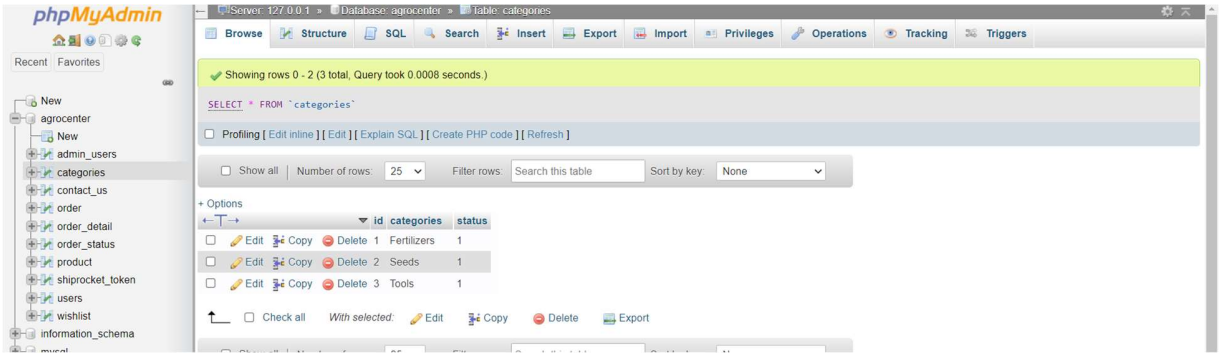


Figure 4.2.4 Database of category.

4.2.5 Database of Order Details:

In order details database store order id, , product id and order each product price which user order in website. User can order many products in same time that time order id will be different. Order details database also have order quantity which amount product order by user. Figure 4.2.5 shows the database of order details.

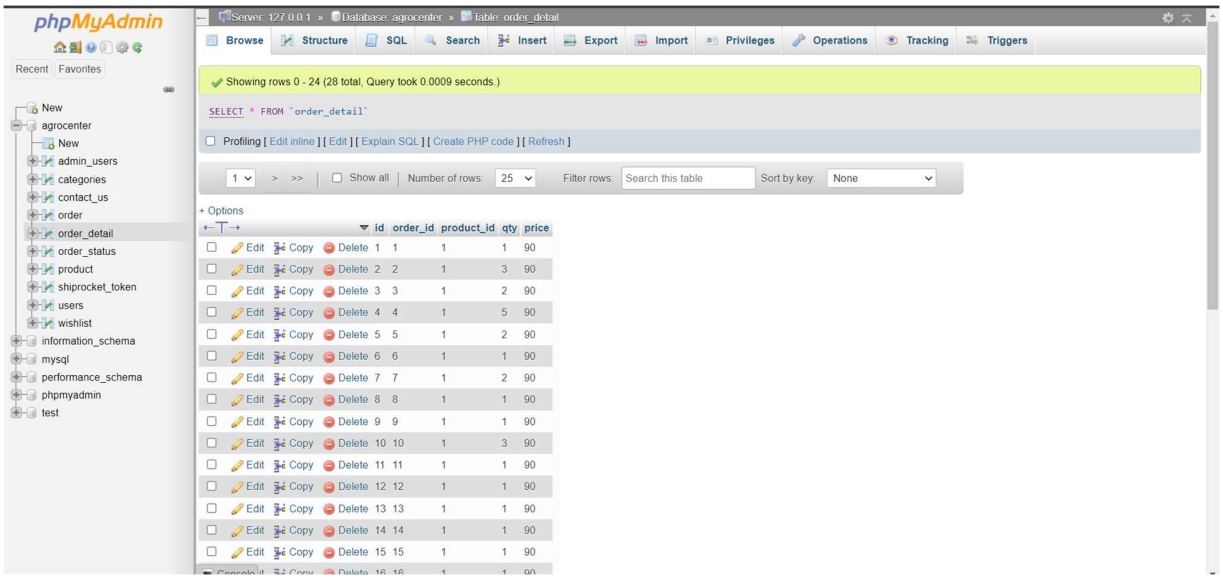


Figure 4.2.5 Database of order details.

4.3 Preliminary Results

A critical aspect of systems design is to create the user interface to the new system. Input and output design focuses on the content of that interface – the specific fields that should be included in screens and reports that are viewed by the users. Once the content is determined, the format for human-computer interaction (HCI) is determined. The user interface (UI) is the way the system talks to the users, using screens/forms, reports, and error messages. During interface design developers identify procedures for each system activity and the required 21 inputs for

those activities. These required inputs become screens or forms. User involvement is critical during these design activities.

4.3.1 Home page:

This is the home page for the AgroCentre Website. In the top menu there is home, contact, tutorial, login and all three categories. In the middle part there are new arrivals and best sellers. In the footer part there are the website information given.

Figure shows the Home page of the system :

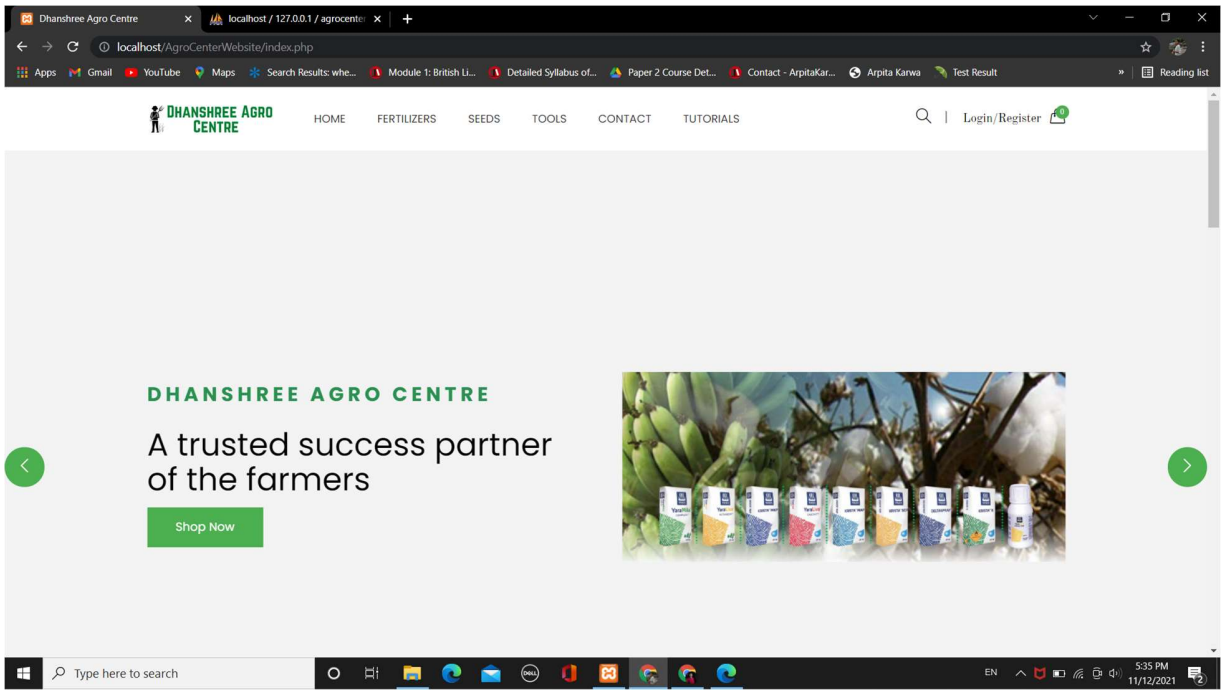


Figure 4.3.1.1 Home page

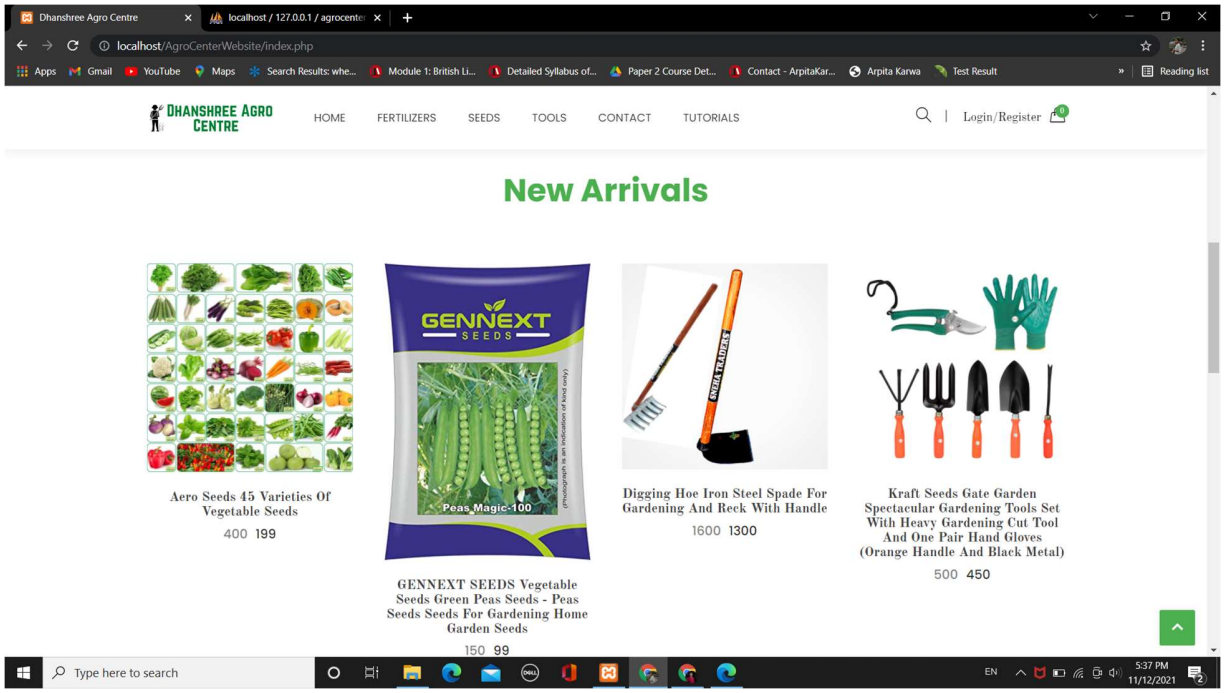


Figure 4.3.1.2 Home page

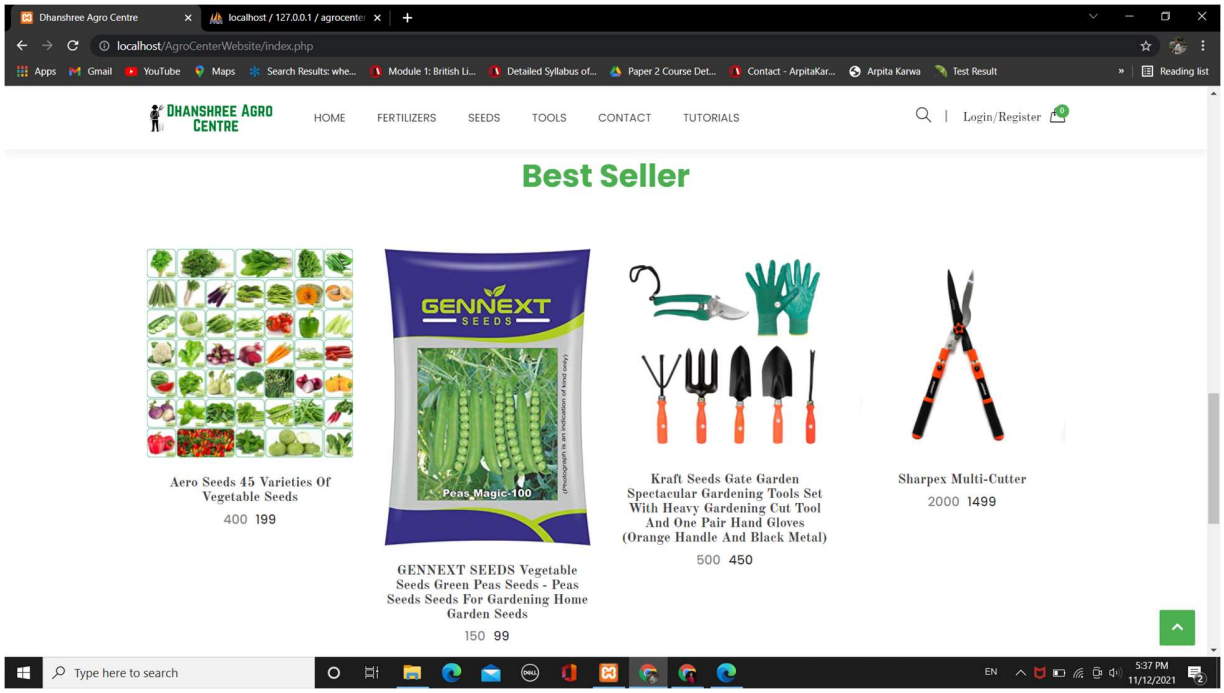


Figure 4.3.1.3 Home page

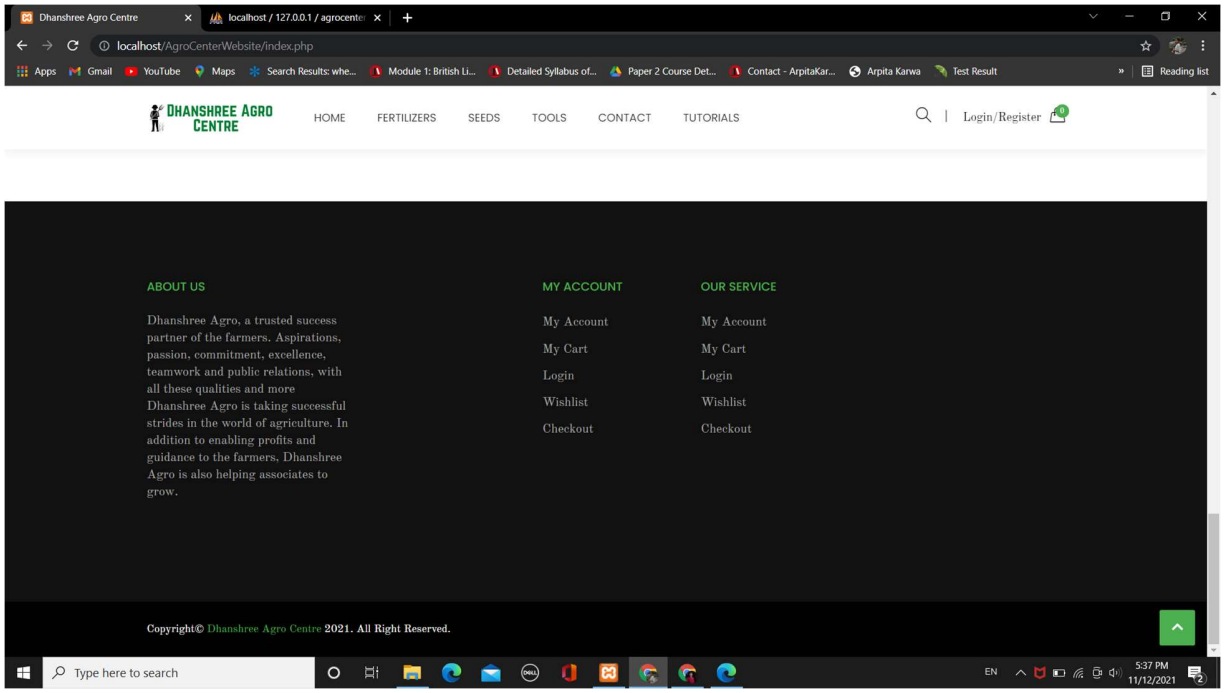


Figure 4.3.1.4 Home page

4.3.2 Account Login page / Registration page:

This is the account login page. Here user can login to access his account. User must need to register for login. User fills up the form with registered email address and valid password which is used at registration. Here user can register an account to access website all service. User must need to give requirement information for registration. User fill up the form with require all info which is complete the registration. If a person fills the form and submits, then he or she becomes a user of the site. Figure 4.3.2 shows the login page of the system.

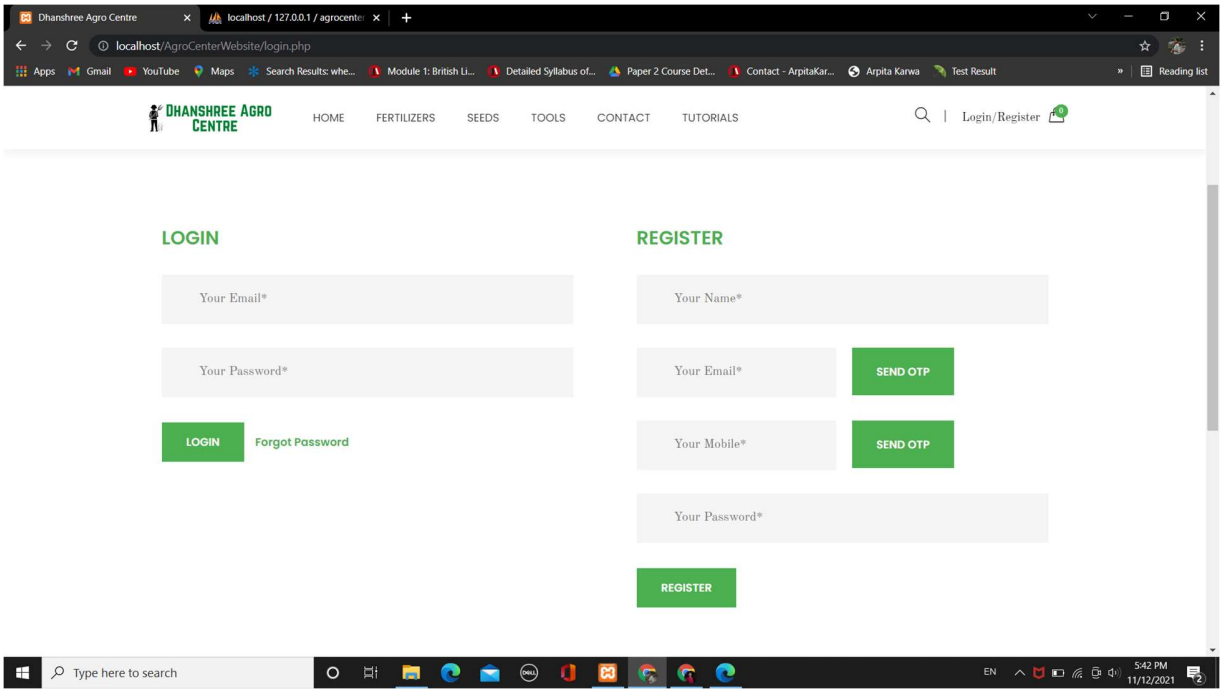
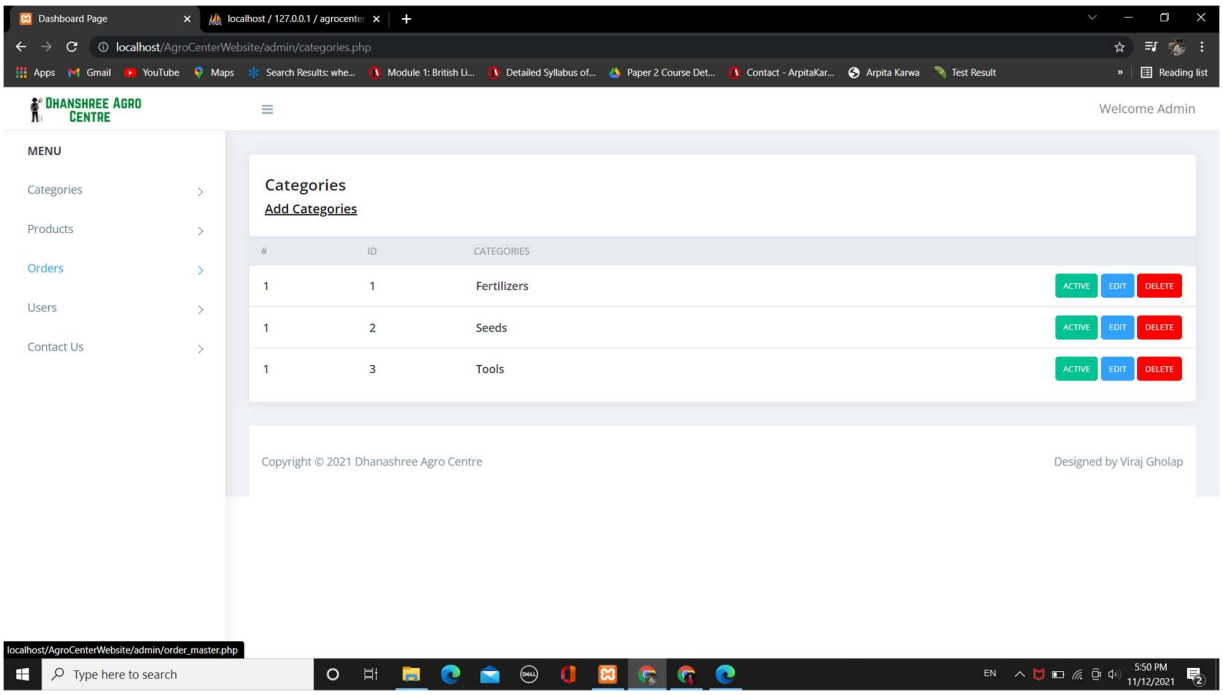
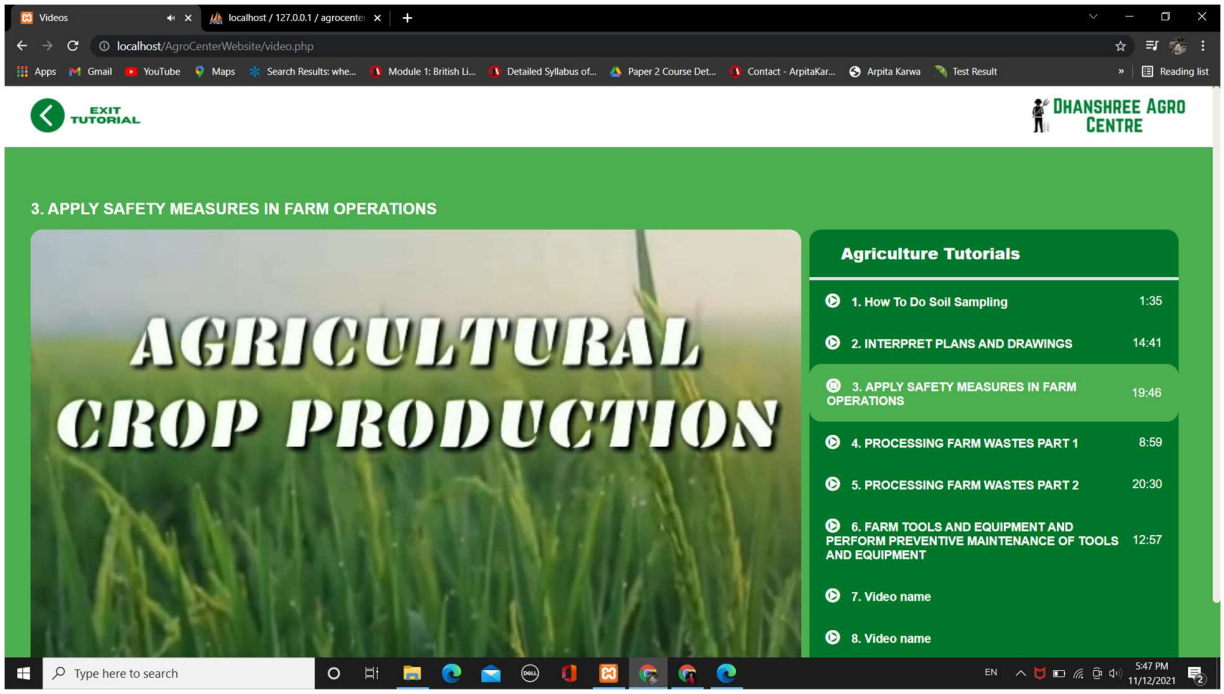


Figure 4.3.2 login page / registration page

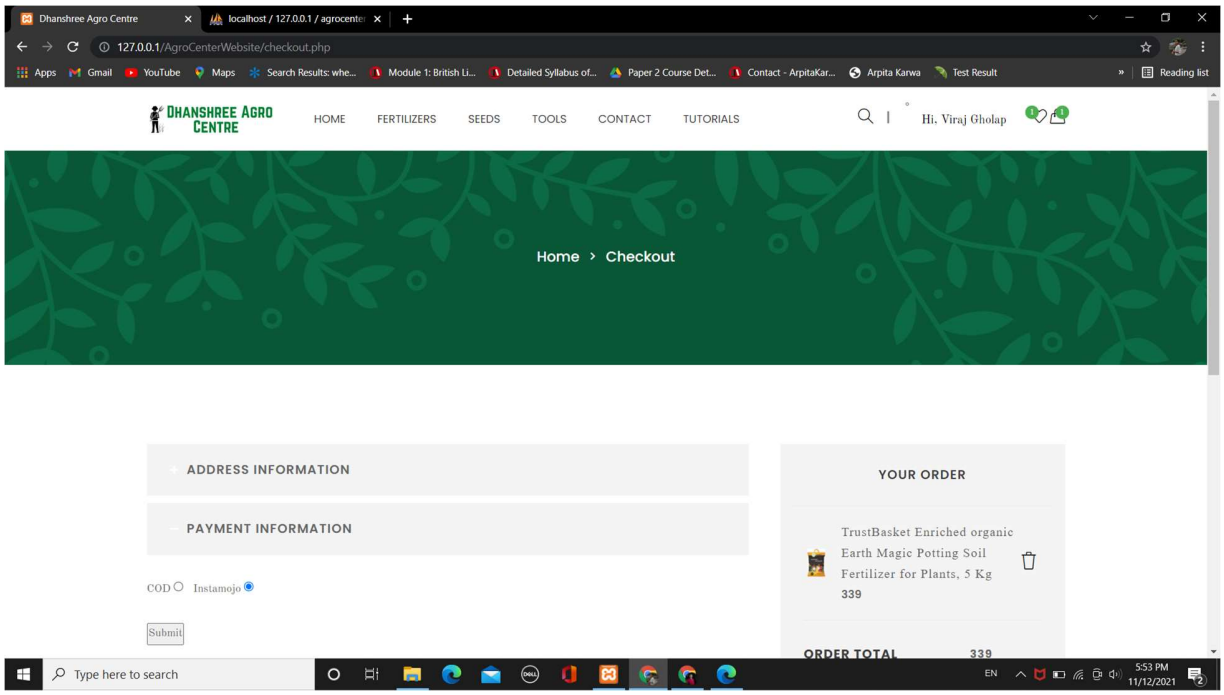
4.3.3 Admin Panel :

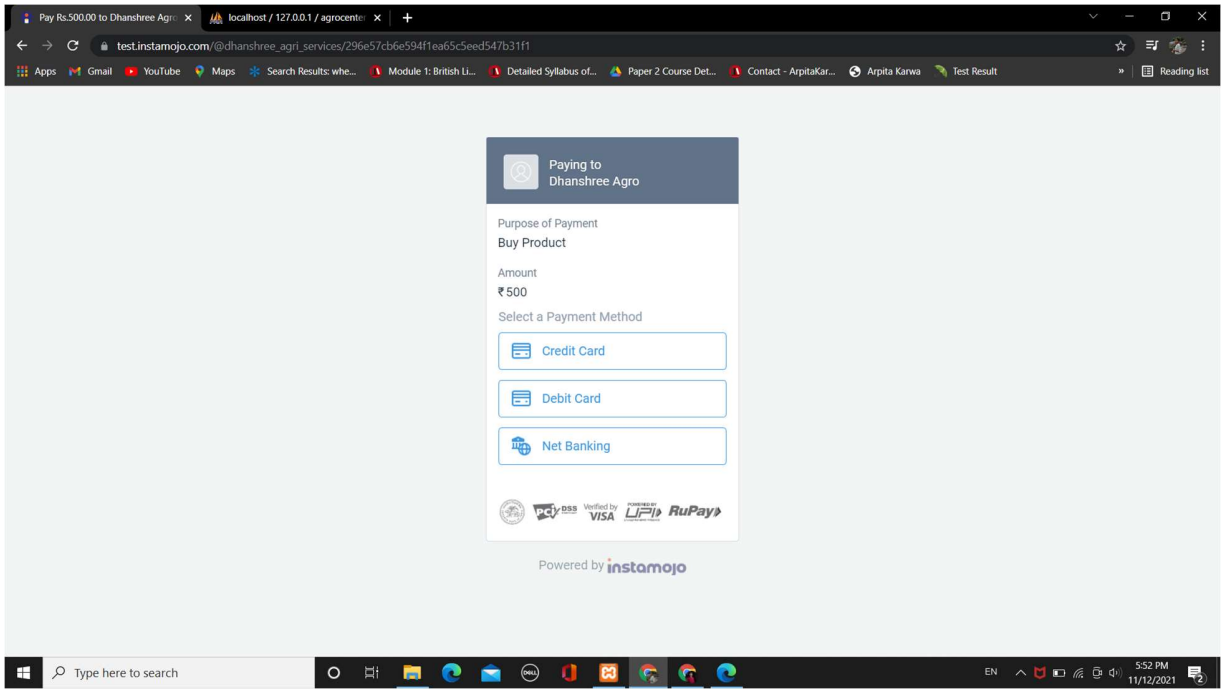


4.3.4 Video Tutorial Section Page :



4.3.5 Checkout and Payment Gateway :

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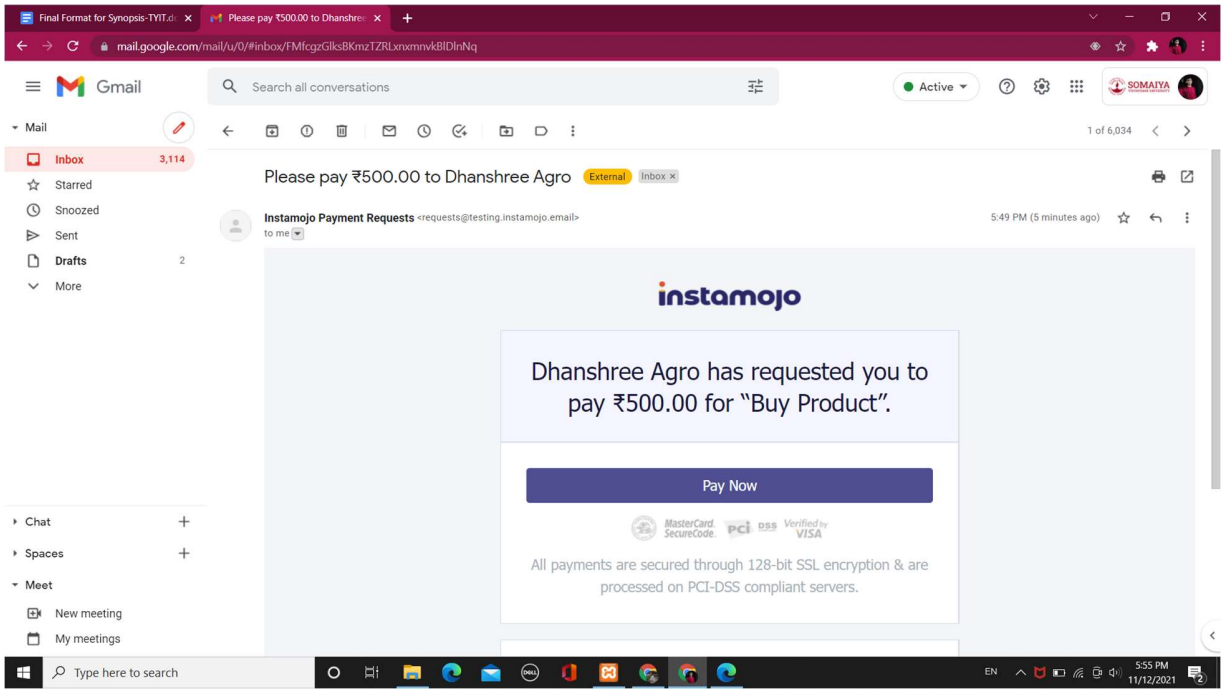
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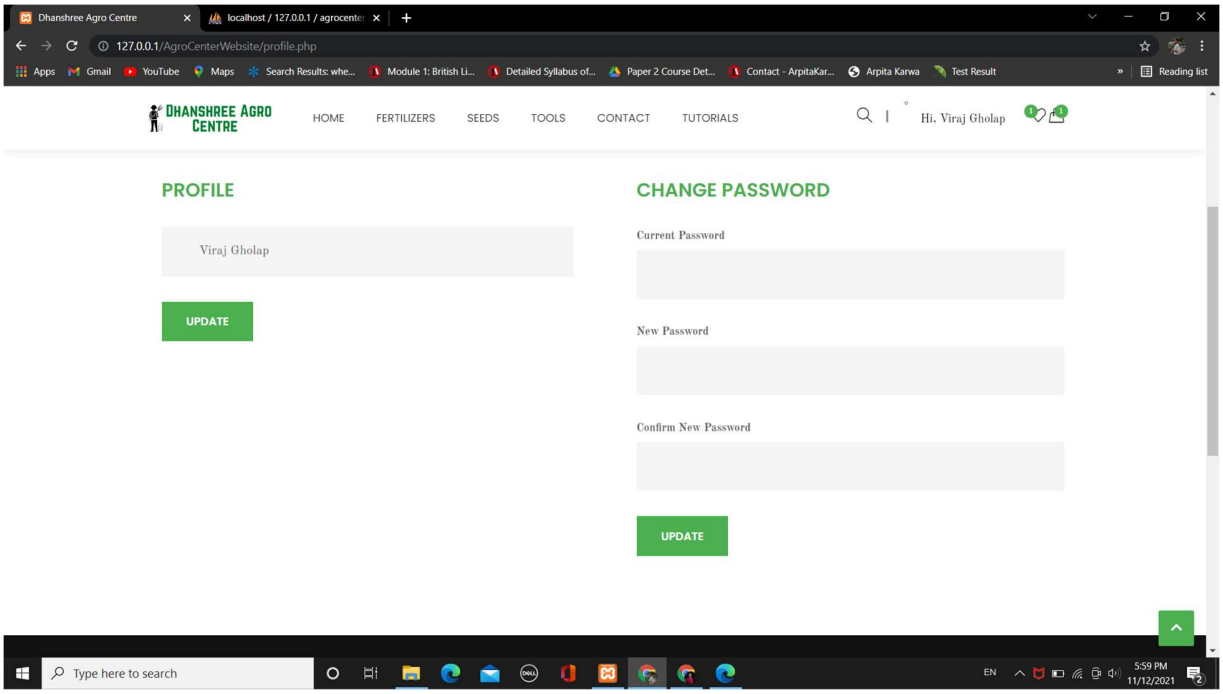
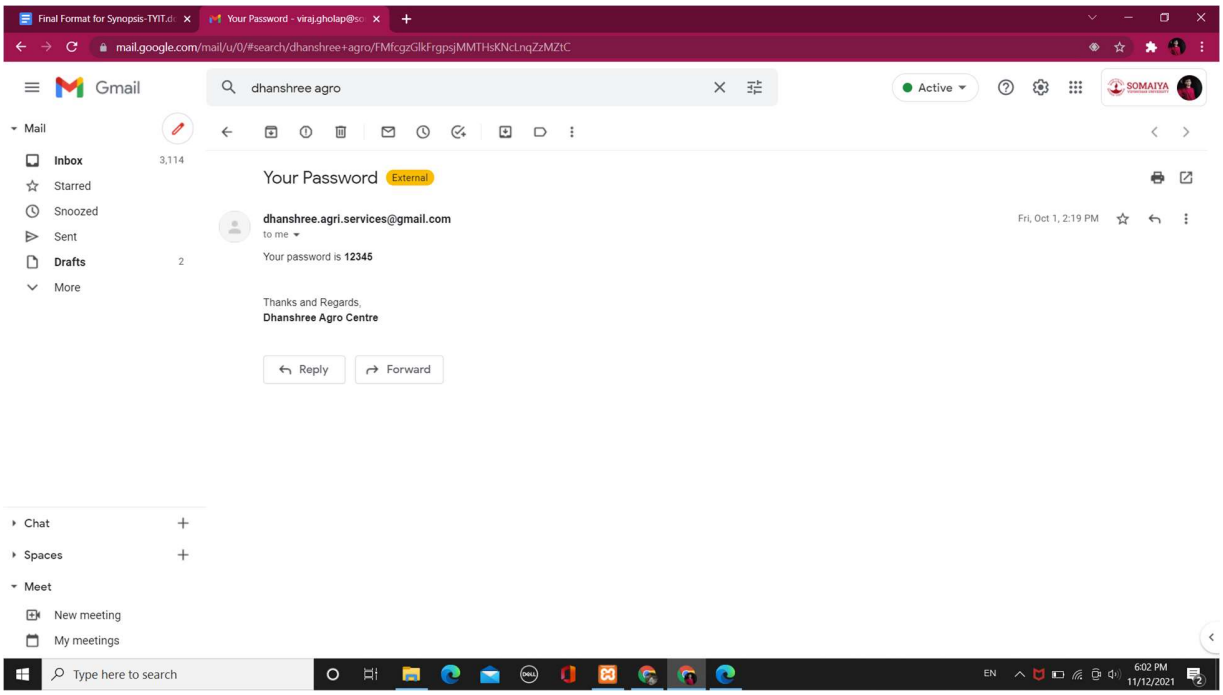
4.3.6 User Profile Management :



4.3.7 SMTP Implementation :



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