**DHANALAKSHMI SRINIVASAN**

**COLLEGE OF ENGINEERING**

**Coimbatore-641 105**

**(Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai)**

**DEPARTMENT OF**

**COMPUTER SCIENCE AND BUSINESS**

**SYSTEMS**

**MINI PROJECT REPORT**

**SEVENTH SEMESTER**



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**MINI PROJECT**

**REPORT**

PROJECT TITLE

**“ AGRO CORNER”**

**E-Commerce Platform for Farmers**

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**BONAFIDE CERTIFICATE**

Certified that this is the bonafide report of the work done by Mr./Ms................................................................................in the MINI PROJECT of this institution, as per the Anna University, Chennai for the Seventh Semester Computer Science and Business Systems, during the period of **July 2023 to November 2023.**

## Project Guide Head of the Department

Submitted for the University Practical Examination held on ................................. at Dhanalakshmi Srinivasan College of Engineering, Coimbatore-641105.

## Register Number :

**INTERNAL EXAMINER EXTERNAL EXAMINER**

**ACKNOWLEDGEMENT**

First and foremost, we would like to thank almighty for showering the blessings throughout our life. We take the privilege to express hearty thanks to our parents for their valuable support and effort to complete this project.

We take this chance to express our deep sense of gratitude to our management, our beloved Principal **Dr C. JAGADHEESAN ME, PhD** and our Dean **Dr.K.BAGHIRATHI, PhD** and our Vice Principal **Mr.G.SARANRAJ M.E** for providing an excellent infrastructure and support to pursue project work at our college.

We express our profound thanks to our beloved Head of the Department and our guide **Dr.B.RAJESH KUMAR, M.E, PhD** for his able administrator, keen interest and also his valuable guidance at each and every stage of the project, which helped a lot in the successful completion of the project.

We are very much grateful to all our teaching and non-teaching staffs and our friends who helped us to complete the project.

# ABSTRACT

In today's rapidly changing agricultural landscape, the Farmer Product Direct Selling System emerges as a pivotal solution, offering an innovative approach to connect farmers and consumers. It provides a place for farmers to list their products with details like name, description, quantity, and price.

This system also offers valuable information about crop trends, reducing manual work and keeping the database up-to-date. Farmers, who often rely on traditional knowledge, can sell their products here. It addresses the slow progress in agricultural education and research.

Users can access product information and prices. The system manages farmer and user details securely, with unique usernames and passwords. An admin panel supervises farmer and user registration, product information, and order details, ensuring smooth operation. This system empowers farmers and simplifies the sale of agricultural products, benefiting both farmers and consumers.

# LIST OF TOOLS REQUIRED

|  |  |  |
| --- | --- | --- |
| **S. NO** | **TOOLS** | **USES** |
| 1. | Code Editor/IDE | Developers often use code editors or integrated development environments. |
| 2. | Web Server | To locally test the PHP code, developers use web servers. |
| 3. | Database Management System | It is frequently used to store and manage data. |
| 4. | Version Control System | Tools like Git are used for version control and collaborative development. |
| 5. | Browser | It is used for testing web applications and ensuring cross-browser compatibility. |
| 6. | Database Administration Tool | It is used for managing and interacting with the database. |
| 7. | File Transfer Protocol (FTP) Software | It used for uploading files to a web server. |
| 8. | Package Manager | It is used for managing project dependencies. |
| 9. | Text Editors and IDEs for HTML/CSS | It is Used for editing HTML and CSS files, developers may use text editors or specialized IDEs. |
| 10. | Server Hosting Services | Hosting providers like AWS, Heroku, or shared web hosting services are used for deploying the website. |
| 11. | CSS | It is used to control the styling, layout, and presentation of web pages, ensuring consistency and enhancing user experience. |

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**Chapter-1**

**INTRODUCTION**

**1. Introduction**

The Farmer Product Direct Selling System represents a pioneering leap in the realm of agriculture and e-commerce. Agriculture, the backbone of many economies, is undergoing transformative changes, and this system emerges as a catalyst in facilitating these changes. For too long, farmers have grappled with the complexities of marketing their products and staying aligned with the latest crop trends.

In a world where traditional agricultural practices and limited access to contemporary research often hinder progress, this system serves as an innovative bridge. It facilitates direct sales of agricultural products, enabling farmers to present their goods with precision, offering vital details such as product names, descriptions, quantities, and prices.

Yet, the value of the system extends beyond mere commerce. It is a repository of knowledge, an information hub where users—both farmers and consumers—can access critical insights into agricultural products and market dynamics. Moreover, the system is a testament to efficiency, reducing the burdens of manual record-keeping by maintaining a dynamic, real-time database.

As the agricultural sector undergoes transformation, the challenges it faces become more dynamic. This digital platform is not just a marketplace but also a community forum. It fosters discussions on emerging trends and unearths solutions to the challenges that the Indian agricultural sector grapples with daily.

**1.1 MOTIVATION**

The motivation behind the Farmer Product Direct Selling System is deeply rooted in the recognition of the pivotal role that agriculture plays in our society and economies. Agriculture is not just a means of sustenance; it is a cornerstone of human civilization. It provides food, livelihoods, and forms the backbone of many economies worldwide.

This project lies in its potential to transform the agricultural sector. It aims to empower farmers, streamline marketing, provide critical information, enhance efficiency, and create a community that can adapt to the ever-changing landscape of agriculture. By doing so, it not only supports the livelihoods of farmers but also contributes to the well-being of consumers and the overall growth of the agricultural sector.

**1.2 PROBLEM DEFINITION**

**Agro Corner, An E-Commerce Platform For Farmers.**

Agro Corner aims to solve the challenges faced by farmers, such as limited market access and difficulties in selling their produce, by providing an E-Commerce platform tailored to their needs and allowing farmers to sell their products directly and stay informed about crop trends.

**Chapter-2**

**LITERATURE**

**SURVEY**

**2.LITERATURE SURVEY**

**Table 1.LITERATURE SURVEY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No** | **Paper Name/Author** | **Publication**  **Year** | **Methodology** | **Conclusion** |
| 1. | Manisha Bhende, Mohini S. Avatade, Suvarna Patil,  Pooja Mishra,  Pooja Prasad | 2018 | This design lets everyone to be updated with the changing market scenario. Indian farmers faced many challenges and one of them is that to get a good profit for the efforts and investment that they had put in. | The platform and modern techniques will help to sell the crops at different layers of marketing chain providing multiple options (market, merchant or end user). |
| 2. | Kavita Saini,  Ishika Mishra,  Shreya Srivastava | 2021 | This Project outlines different aspects of developing an e-commerce website for Indian farmers to get involve in business directly without any need of a mediator in between and the optimum solution to the challenges involved in developing one. | The platform not only helps the producers getting the deserving price for their goods but the customer getting fresh vegetables and fruits at a decent amount. |

**Chapter-3**

**SYSTEM**

**REQUIRMENTS**

**AND**

**SPECIFICATIONS**

**3.SYSTEM REQUIREMENTS AND SPECIFICATION**

**3.1 INTRODUCTION**

**3.1.1 Project Scope**

This project focuses on creating an e-commerce platform specifically designed for farmers to sell their agricultural products, aiming to streamline the buying and selling process within the agricultural sector.

**3.1.2 User Classes and Characteristics**

Identify the various user classes that you anticipate will use this product. User classes may be differentiated based on frequency of use, subset of product functions used, technical expertise, security or privilege levels, educational level, or experience. Describe the pertinent characteristics of each user class. Certain requirements may pertain only to certain user classes. Distinguish the most important user classes for this product from those who are less important to satisfy.

**3.1.3 Assumptions and Dependencies**

This document will provide a general description of our project, including user requirements, product perspective, and overview of requirements, general constraints. In addition, it will also provide the specific requirements and functionality needed for this project such as interface, functional requirements and performance requirement

**3.1.4 Functional Requirements**

Functional user requirements may be high-level statements of what the system should do but functional system requirements should also describe clearly about the system services in detail.

**3.2 EXTERNAL INTERFACE REQUIREMENTS**

**3.2.1 User Interfaces**

The user interface is designed to provide a seamless and visually engaging experience, making it easy for farmers and consumers to interact, access information, and conduct transactions within the agricultural community.

**3.2.2 Hardware Interfaces**

The system is designed to be hardware-agnostic, enabling users to access it from various devices with internet connectivity. The underlying infrastructure is typically hosted and maintained by the system administrators to ensure data security and accessibility.

**3.2.3 Software Interfaces**

The system's software components encompass web browsers for user interaction, web applications, databases, server software, and security measures. These components collaborate to provide a user-friendly and secure interface for product listings, transactions, and administration.

**3.2.4 Communication Interfaces**

This System shall utilize the HTTP protocol for communication over the internet, ensuring secure and efficient data exchange. For intranet communication, the system will employ the TCP/IP protocol suite to facilitate seamless and standardized information transfer among internal network components.

**NON-FUNCTIONAL REQUIREMENTS:**

**3.2.5 Performance Requirements**

* System can produce results faster on 2GB/4GB of RAM.

* It may take LESS time for peak loads at main node.

* The system will be available 100% of the time. Once there is a fatal error, the system will provide understandable feedback to the user.

**3.2.6 Safety and Security Requirements**

* The system is designed in modules where errors can be detected and fixed easily.

**3.2.7 Software Quality Attributes**

* **Reliability:** The Client machine will change the status of data indicating successful data transmission.
* **Usability:** The application should be easy to use through interactive interface.

* **Maintainability:** The system will be developed using the standard software development conventions to help in easy review and redesigning of the system.

**Support ability:** The system will be able to support to transfer different types of SQL queries.

**Portability:** This software is portable to any system with the requirements specified. There must also be a server where the database can be set-up.

**3.3 SYSTEM REQUIREMENT**

**3.3.1 Hardware Specification**

Processor : Intel core2 or Above

Memory : 2 GB RAM or More

Hard disk Requirement : Free 500GB on installation drive

**3.3.2 SOFTWARE SPECIFICATION**

Operating System : Windows7/10

Scripting Language : PHP

Database : MYSQL

## CHAPTER 4

## 

**SYSTEM**

**STUDY**

**4. SYSTEM STUDY**

**4.1 EXISTING SYSTEM**

In present system every farmer product selling system work such as sales and view farmer product information is carried out manually. The present system is much time consuming. Hence for that more human resource is needed and a huge amount of time is needed for it. In present system user have to walk in market to get correct price of the product and get the product. This system does not have any facilities to view item price and order of item. The main drawbacks of the existing system farmer have to go market for sell their farmer product this is more tedious task to farmer.

**4.1.1 DISADVANTAGES OF EXISITNG SYSTEM**

* Time consuming process.
* Needs of man power.
* Difficult to get item information.
* Farmer to sell Agri product is very difficult.
* Every time they have to go market to sell a product.

**4.2 PROPOSED SYSTEM**

The drawbacks, which are faced during existing system, can be eradicated by using the farmer product dealing system. The main objective of the proposed system is to provide a user-friendly interface. The system, which is proposed, now computerizes all the processes involved in farmer product. Project proposes a new technique to farmer can sell the item in this application farmer can arrange an order of the item with a certain time limit.

**4.2.1 ADVANTAGES OF PROPOSED SYSTEM**

* This application will reduce manual work and maintain updates in database from time to time.
* Less time-consuming process.
* Easy way to get item information and price details.
* Farmer to sell agri product is very easiest way.
* No need to go market to sell a product.
* Easy report generation.

## CHAPTER 5

## 

**SYSTEM**

**DESIGN**