

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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MINI PROJECT REPORT ON

## **“Agro-culture Management System”**

Submitted in partial fulfillment for the requirements of the mini-project work

**Submitted by**

**ROHITH**

**1AK19CS040**

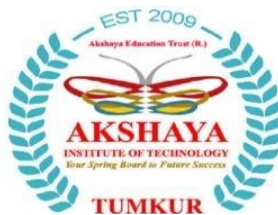
**Under the guidance of**

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

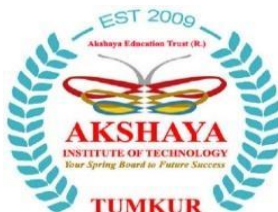
**AKSHAY INSTITUTE OF TECHNOLOGY**

Lingapura, Tumkur-Koratagere road, tumkur-572106

2021-22

# AKSHAYA INSTITUTE OF TECHNOLOGY

Lingapura, Tumkur-Koratagere road, Tumkur-572106



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## CERTIFICATE

This is to certify that the Mini-project work entitled “**Agro-Culture Management System**” is a bonafide work carried out at **Database management system** with mini project laboratory by **Rohith (1AK19CS040)** in partial fulfilment for the award of **Bachelor of Engineering in Computer Science and Engineering in 5<sup>th</sup> semester of the Visvesvaraya Technological University**, during the academic year.

**2021-2022.**

Signature of the Guide

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1) \_\_\_\_\_  
2) \_\_\_\_\_

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## **ACKNOWLEDGEMENT**

The sense of contentment and elation that accomplishes the successful of completion of our task would be incomplete without mentioning the names of the people who helped in accomplishment of this Mini-Project, whose constant guidance, support and encouragement resulted in its realization.

I take this opportunity to thank our principal, **Dr. K V Srinivas Rao** for providing us with serene and healthy environment within the college, which helped us in concentrating on our task.

I express our deep sense of gratitude to our **RAKESH S** Head of Department of CSE for his constant encouragement and useful suggestions in carrying out this project successful.

I thank my guide **Prof. Rakesh S** Department of CSE for having provided the necessary guidance and facilities to carry out the project.

I thank all teaching and non-teaching staff of the department of CSE, who has helped me in completing the project.

I wish to thank my friends for their useful guidance on various topics. Last, but not least, I would like to thank my **Parents** for the support.

**Rohith**  
(1AK19CS040)

## **ABSTRACT**

Travels Management System(TMS) Project is web based application. The main purpose of “Travels Management System” is to make the travel easy and comfortable for the users right from finding the routes and buses to till the booking of the tickets. In this project, we have two modules, Admin, and user.

Admin in this Travel & Tourism Management System project will log in with the default username and password and admin has authority to add the bus routes and add the travel and assign the route id's and bus id's and finally, the admin will add the buses at particular times in different routes. Admin will also add the different travel agencies while adding buses admin will fix the ticket price and the capacity of seats.

Finally, the user will register and log in and the find the appropriate routes and use the route id he will search the bus by giving all details like date of journey and type of seat etc. After selecting the information user will be headed to select seats in a view the selected seats will be displayed as red and then after successful payment the booking confirmation will be shown.

## **CHAPTER I: INTRODUCTION**

### **1.1 Introduction**

Agro Culture is the farmer system where they can plan, monitor and analyze the activity of the farmers production system. It manages farmer operation with one system and organizes data in one place. It helps smart farmers become even smarter. This creates in partnership with growers and buyers. It inspire farmer to produce and buyers to consume fresh goods.

Agro Culture System will make better connection among Farmers and Buyers ensure quality food. Standardize and increase efficiency of agro culture process.

### **1.3 Objectives of the Project**

The specific objectives of the project include:

- ❖ To provide qualitative foods to the buyers.
- ❖ Implementing an automated/online agro culture system.
- ❖ To inspire farmer to produce quality goods and supply to the buyers.
- ❖ Eco-friendly farming system.

### **1.4 Scope of the Project**

It is focused on studying the existing system of agro culture in and to make sure that the peoples are getting quality fresh goods. This is also will produce:

- Less effort and less labor intensive, as the primary cost and focus primary on creating, managing, and running a secure quality food supply.
- Increasing number of buyers as individuals will find it easier and more convenient to buy goods.
- Easy management.

### **1.5 Methodology/Procedure**

- For the development of project the designing of database was done on PHPMYADMIN, back end was coded in basic PHP and for frontend we used the same basic PHP codes.
- Software methodologies are concerned with the process of creating software – not so much the technical side but the organizational aspects. Several software development approaches have been used since the origin of information technology.

### 1.7 Project Framework

A framework is a standardized set of concepts, practices, and criteria for dealing with a common type of problem, which can be used as a reference to help us approach and resolve new problems of a similar nature.

The aim of framework is to provide a common structure so that developers don't have to redo it from scratch and can reuse the code provided. In this way, frameworks allows us to cut out much of the work and save a lot of time

### 1.8 Data and Information

Data collection plays an important role in a projects succession and also it plays an inevitable role in the timely completion of the project. The data in the project includes contact information of the clients and their respective feedbacks/complaints which is stored in a database. To assure safety, only the admin has proper access to the information provided by the clients.

### 1.9 Primary Source of Data

Primary data are the first hand data. The necessary information was collected from day to day observation, problems, instructions of supervisor. Queries and personal discussion with the staff of the organization.

- Observation of working environment
- Informal discussion and interaction with the staff of the library department

### 1.10 Secondary Source of Data

The Secondary sources of data were collected in order to achieve the real and fact data as far as available. The major sources of secondary data are as follows:

- Annual reports of the concerned organization
- Related websites

### 1.11 Tools Used

#### ❖ Xampp:

##### o Apache:

- (Application Server) Apache , often referred to as Server, is an open-source Java Servlet Container developed by the Apache Software Foundation.

##### o MySQLServer:

- It handles large databases much faster than existing solutions.

- It consists of multi-threaded SQL server that supports different back ends, several different client programs and libraries, administrative tools, and application programming interfaces (APIs)
  - Its connectivity, speed, and security make MySQL Server highly suited for accessing databases on the Internet.
- ❖ **Sublime Text 3.1.1-** Sublime Text is a sophisticated text editor for code, markup and prose. You'll love the slick user interface, extraordinary features and amazing performance.
  - ❖ **Web browsers:** Google Chrome, Mozilla Firefox, Opera and Internet Explorer.
  - ❖ **Git Hub:** GitHub Inc. is a web-based hosting service for version control using Git. It is mostly used for computer code. It offers all of the distributed version control and source code management functionality of Git as well as adding its own features.

## 1.12 Testing

Testing is evaluation of the software against requirements gathered from users and system specifications. Testing identifies important defects, flaws, or an error in the application code that must be fixed. It also assesses the feature of a system. Testing assesses the quality of the product.

### 1.12.1 Unit Testing

Unit testing refers to the testing certain functions and areas of the code. It gives the ability to verify that all the functions work as expected. Eventually, it helps to identify failures in the algorithms as well as logic to help improve the quality of the code that composes a certain function.

### 1.12.2 Integration Testing

Integration testing is basically a logical extension of unit testing. In simple words, two tested units are combined into a component and the interface between them is tested. It identifies problems that occur when different units are combined. The different modules of this project have undergone integration testing while being merged.

### 1.12.3 System Testing

System testing tests the behavior of whole system as defined by the scope of the development project. It might include tests based on risks as well as requirement specifications, business process, use cases or other high level descriptions of system behavior, interactions with the operating systems and system resources. It is most often the final test performed to verify that the system meets the specification and its objectives. System testing has been performed at the completion of each feature and is still taking place to make improvements on the existing system.

## **CHAPTER II: TASK AND ACTIVITIES PERFORMED**

### **2.1 System Analysis**

System Analysis is a detailed study of the various operations performed by a system and their relationships within and outside of the system. Here the key question is- why all problems exist in the present system? What must be done to solve the problem? Analysis begins when a user or manager begins a study of the program using existing system. During analysis, data collected on the various files, decision points and transactions handled by the present system. The commonly used tools in the system are Data Flow Diagram etc. Training, experience and common sense are required for collection of relevant information needed to develop the system. The success of the system depends largely on how clearly the problem is defined, thoroughly investigated and properly carried out through the choice of solution. A good analysis model should provide not only the mechanisms of problem understanding but also the frame work of the solution. Thus it should be studied thoroughly by collecting data about the system. Then the proposed system should be analyzed thoroughly in accordance with the needs. System analysis can be categorized into four parts.

- System planning and initial investigation
- Information Gathering
- Applying analysis tools for structured analysis
- Feasibility study
- Cost/ Benefit analysis.

In our existing system the recording of user's information is done manually, So taking more time for searching the information of the users. Another major disadvantage is that preparing the list of members that viewed any user's information takes more time. So, after conducting the feasibility study I decided to make the agro culture System to be computerized.

### **2.3 Problem Analysis**

It is related with the accessing the detailed information of a user and a candidate. So, I have initiated this project with simple requirements regarding the user and candidate information. Some of the problems for designing and developing this project are discussed below:

#### **2.3.1 Design and Development Problem**

- Problem in running XAMPP.
- To debug the error during the development.
- To show a relationship between entity.
- Minor error with database table.



## **2.4 Feasibility Analysis**

A feasibility analysis is conducted once the problem is clearly understood. The purpose of the study is to determine whether the problem is worth solving. It is an analysis and evaluation of a proposed project to determine if it is technically feasible, feasible with the estimated cost and profitable.

### **2.4.1 Economical Analysis**

The economic feasibility of a system is used to evaluate the benefits achieved from and the costs incurred for the project or system. This is done by a process called cost benefit analysis. It provides tangible and intangible benefits like reduction in cost, more flexibility, faster activities, proper database management, etc.

The application is medium scale application and is economically feasible for us to accomplish it. This involves cost benefits analysis. Thus there is no problem of high cost and cost benefits analysis.

### **2.4.2 Software Analysis**

- Consumes a long-time for development of web application.
- Research and analysis cost to determine the actual need in real world.
- Implementation of application in the server and cost associated with the space in server.

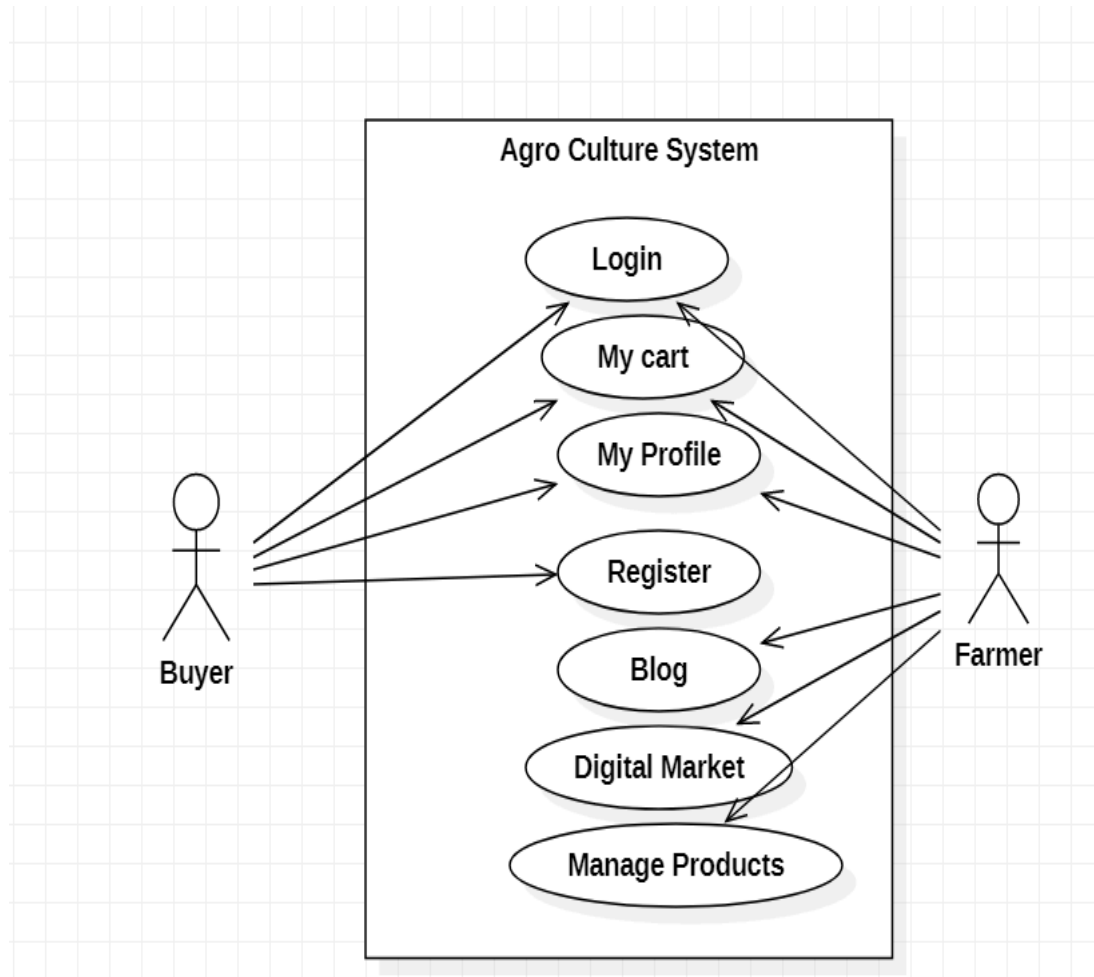
### **2.4.3 Data Conversion**

Another cost associated while implementing this web application is the data conversion. The previously used software database must be stored and backup such that there will be no loss in implementing a new web application which consumes time as well as money.

### **2.4.4 Operational Feasibility**

The system is operational feasible as the system can be operate by normal users with basic computer skills without any additional trainings. We have developed this system with the willingness and ability to create, manage and operate the system which is easy for the end users to operate it.

## 2.5 Use case Diagram

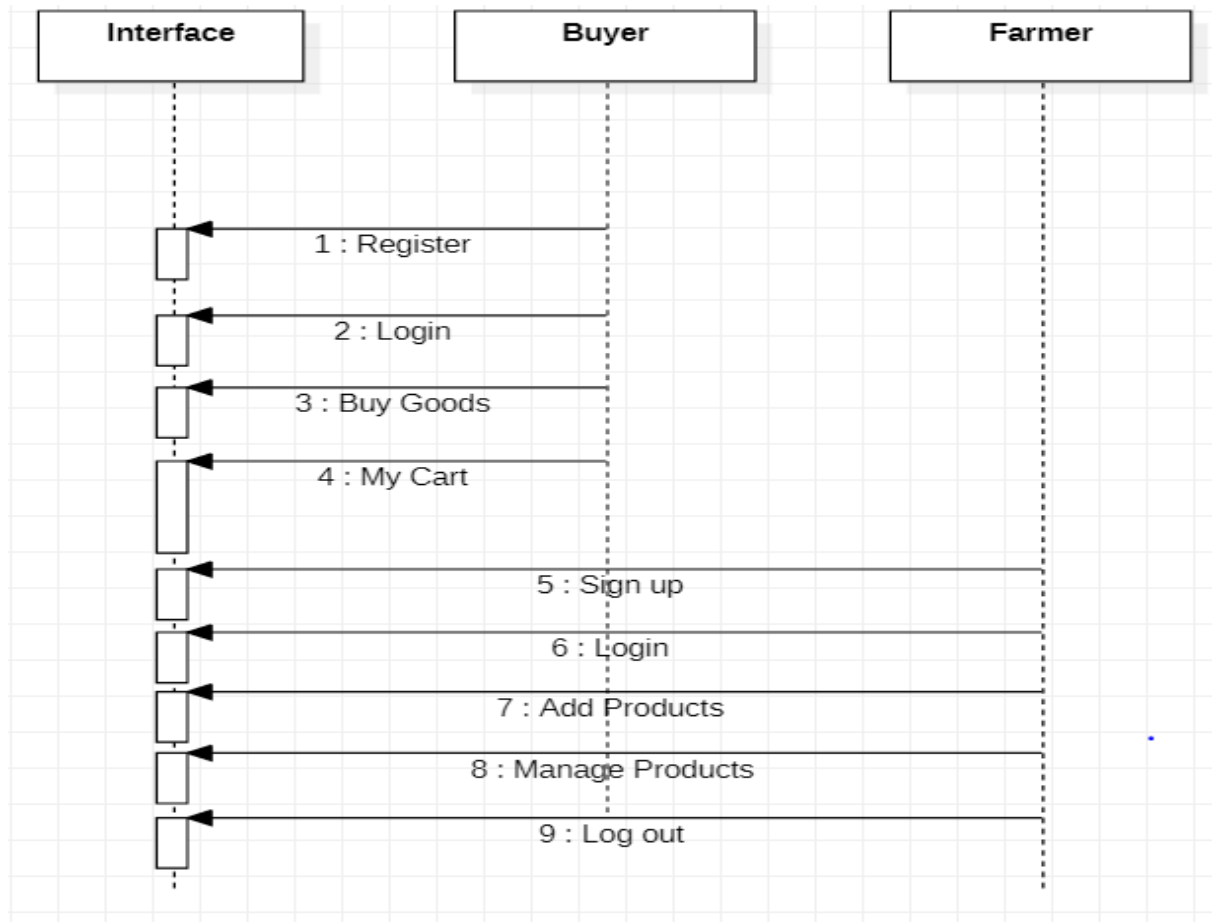


**Figure 1: Use Case Diagram**

Above figure represents Use Case Diagram of the project and is a useful technique for identifying, clarifying, and organizing system requirements. It describes how a user uses a system to accomplish a particular goal. Use cases help ensure that the correct system is developed by capturing the requirements from the user's point of view.

## 2.6 Sequence Diagram

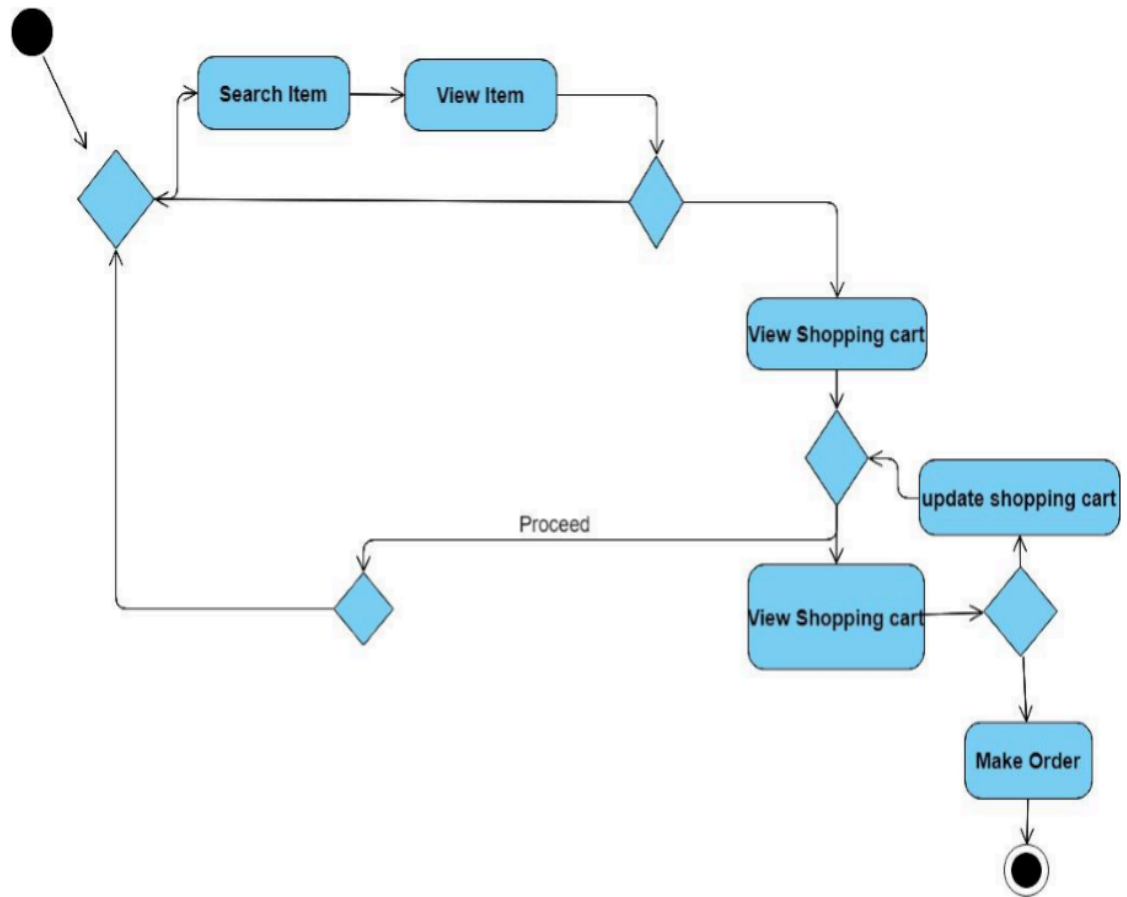
A sequence diagram is a type of interaction diagram because it describes how—and in what order—a group of objects works together. A sequence diagram specifically focuses on lifelines, or the processes and objects that live simultaneously, and the messages exchanged between them to perform a function before the lifeline ends.



**Figure 2:Sequence Diagram**

Above diagram represents Sequence Diagram of the project which is a type of interaction diagram because it describes how—and in what order—a group of objects works together. A sequence diagram specifically focuses on lifelines, or the processes and objects that live simultaneously, and the messages exchanged between them to perform a function before the lifeline ends.

## 2.7 Activity Diagram



**Figure 3: Activity Diagram**

Above diagram describes the flow of control of a system. The flow can be sequential, concurrent or branched showing the overall functions of the system.

## 2.9 ER Diagram

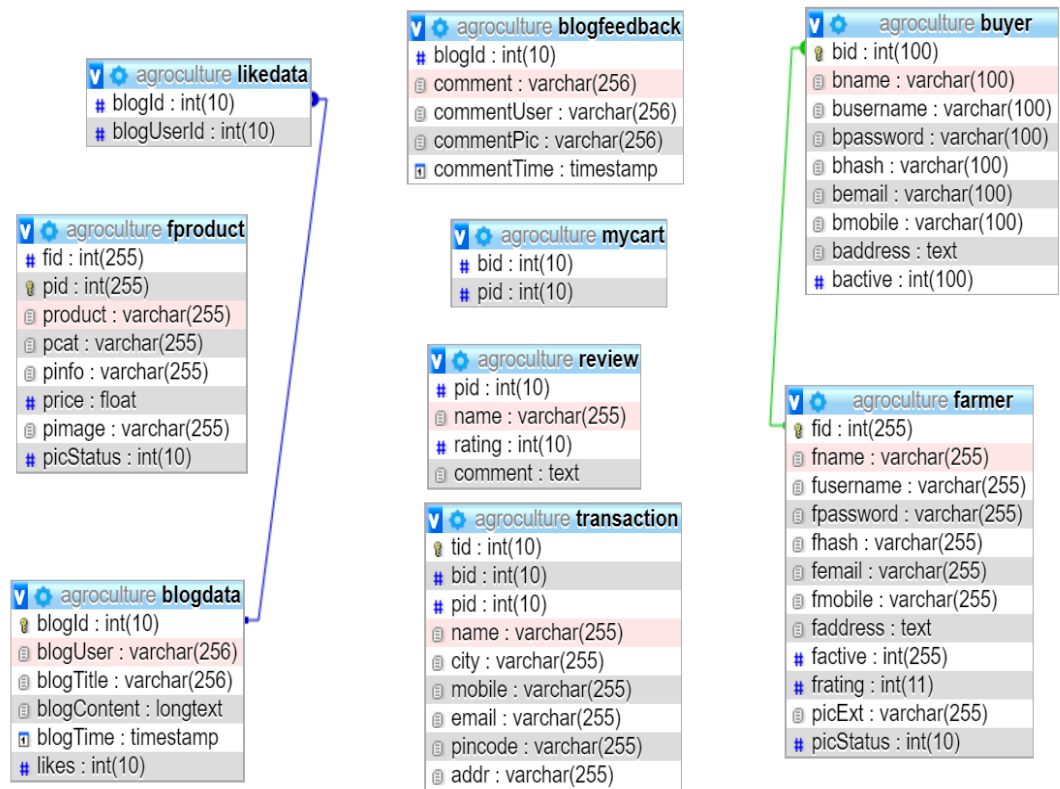


Figure 4: ER Diagram

ER diagram show all the relationships between entity sets stored in the database. It illustrates the logical structure of the database. It helps to visualize how data is connected in general ways.

## 2.10 Gantt Chart

Weeks Tasks	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10
Coding									
System Design									
Requirement Analysis									
Testing & Debugging									
Installation									
User Training									
Application Development									

**Figure 5: Gantt Chart**

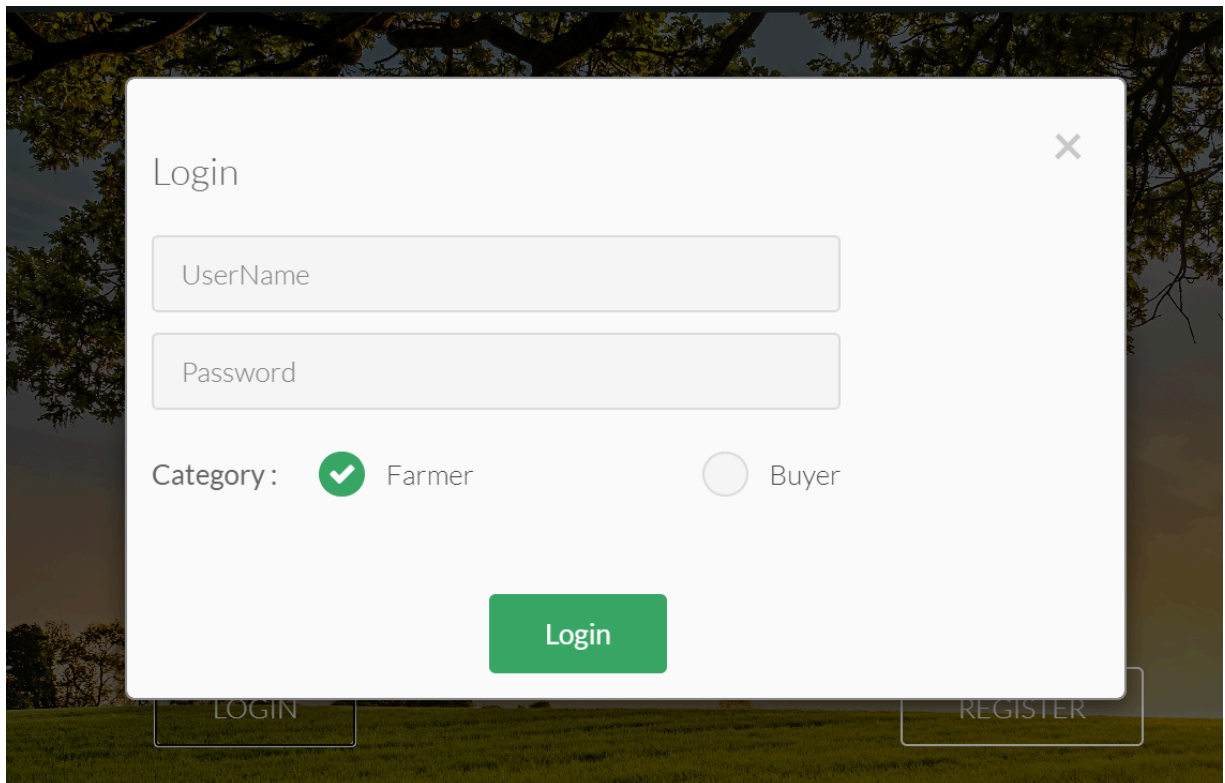
A Gantt chart illustrates how the project will run. It communicates with the client and shows them the expected date of project completion. It helps you assess how long a project should take, determine the resources needed, and plan the order in which you'll complete task.

## 2.12 Findings

After a series of testing and debugging, the project was ready for projection and is believed that it will achieve the goals that it is designed to get, which is to vote in ease.

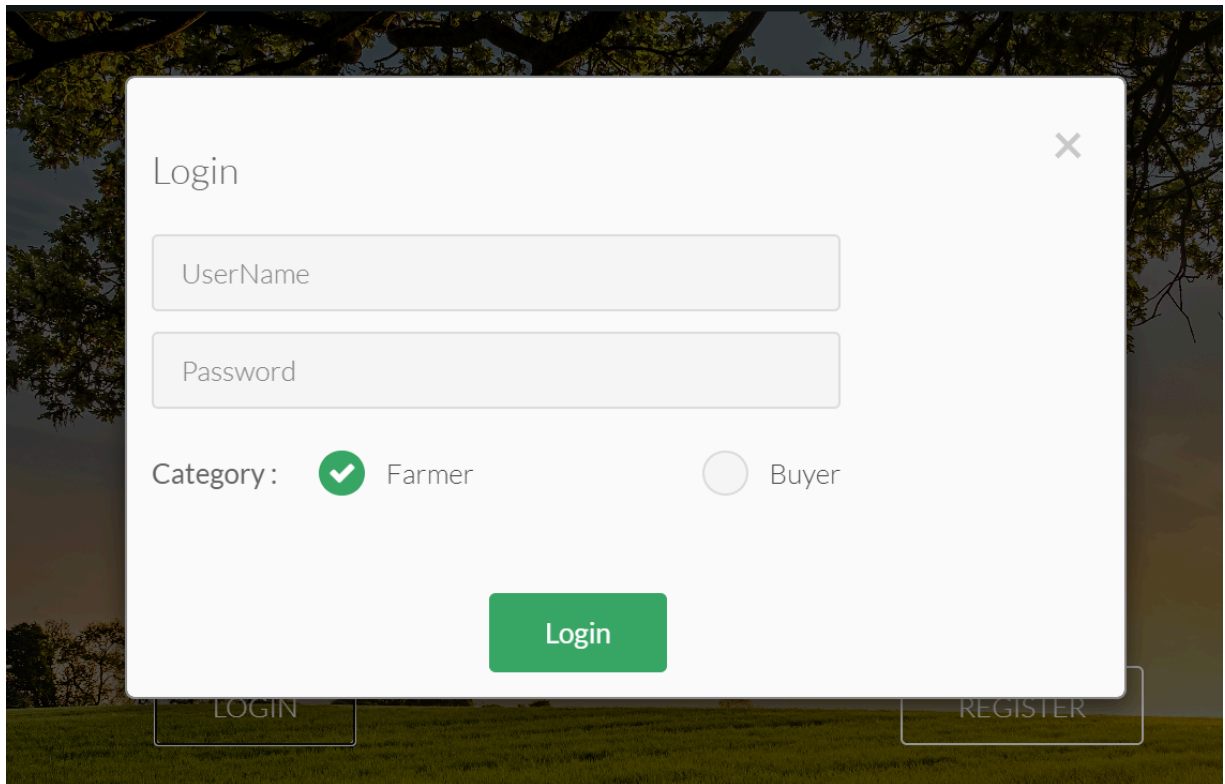
### 2.12.1 Application's Output

#### 2.12.1.1 Backend

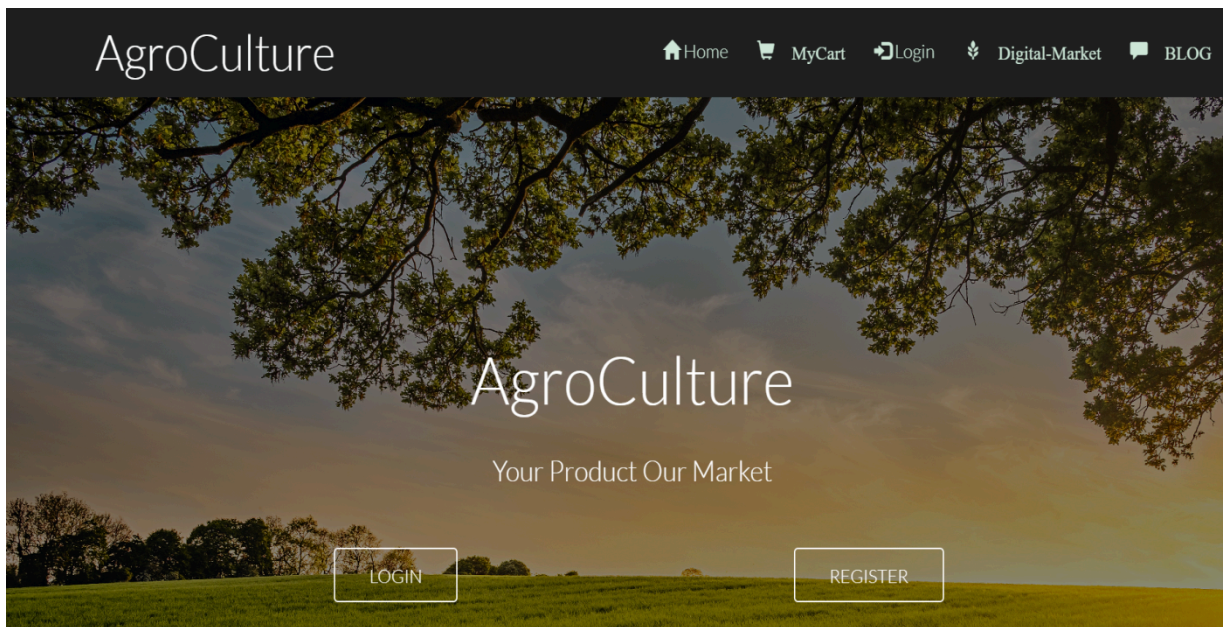


**Figure 6: Farmer/ Buyer Login**

#### 2.12.1.2 Frontend

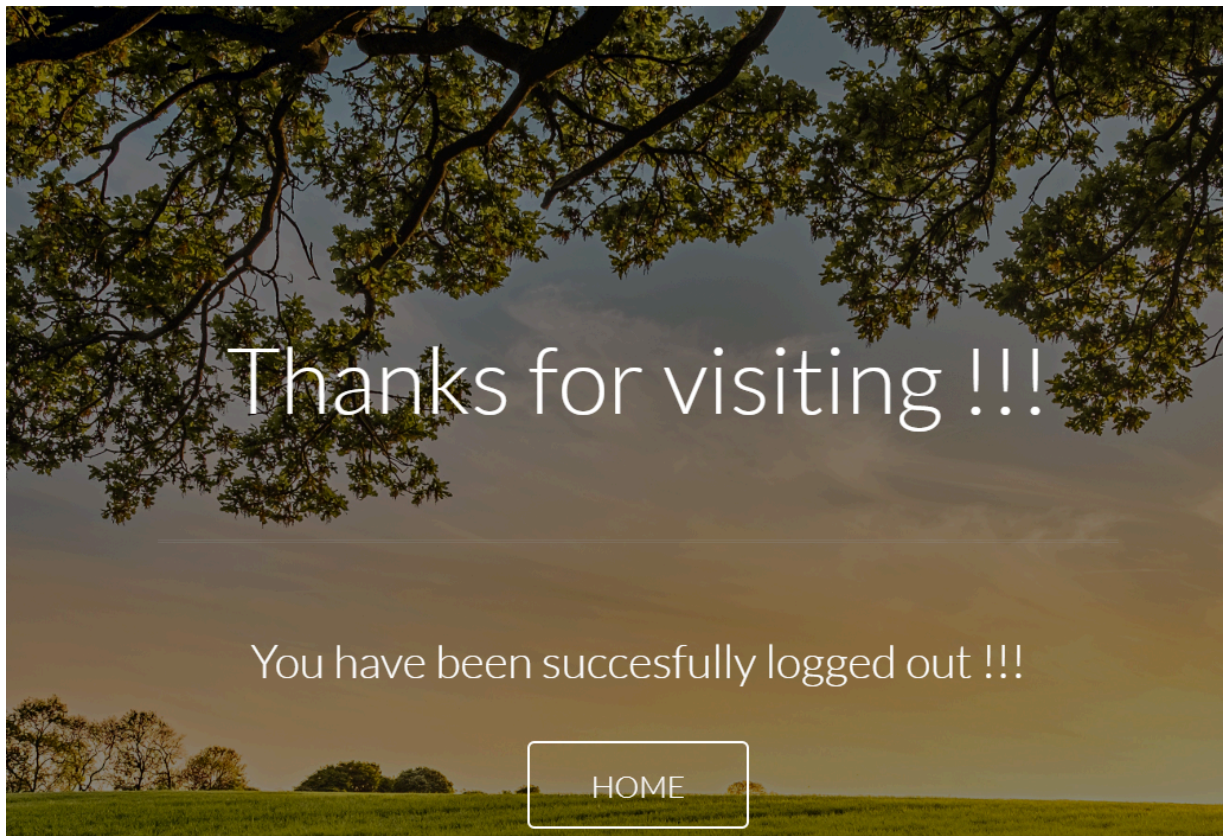


**Figure 7: Member Login**



**Figure 8 Home Page**





**Figure 9: Member Log out**

-----Regards Web Developer Isaac-----