

AGRICULTURE MANAGEMENT SYSTEM

A MINI PROJECT REPORT

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Of

Bachelor of Technology In

Computer Science and Engineering



Department of Computer Science and Engineering

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Punnapra, Alappuzha

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DECLARATION

We, the undersigned, hereby state that the project report "**Agriculture Management System**", submitted for partial fulfillment of the requirements for the award of the degree of Bachelor of Technology of the APJ Abdul Kalam Technological University, is a bonafide work done by us under supervision of **Dr Remya R, Department of CSE**. This submission represents our ideas in our own words, and where ideas or words of others have been included, we have adequately and accurately cited and referenced the sources. We also declare that we have adhered to academic honesty and integrity ethics and have not misrepresented or fabricated any data, idea, fact, or source in our submission. We understand that any violation of the above will cause disciplinary action by the institute and/or the university and can also evoke penal action from the sources that have thus not been properly cited or from whom proper permission has not been obtained. This report has not been previously formed the basis for awarding any degree, diploma or similar title of any other University.

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CERTIFICATE

This is to certify that the report entitled "**Agriculture Management System**" submitted by **Jins George, Mohammed Favaz A, Nibin B Varghese, Muhammed Firoz N** to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in Computer Science and Engineering is a bonafide record of the project work carried out by them under my guidance and supervision of **Dr Remya R**. This report in any form has not been submitted to any other University or Institute for any purpose.

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ABSTRACT

The agriculture industry plays a vital role in the global economy, providing food, fibre, and fuel to millions of people worldwide. However, farmers face numerous challenges, including unpredictable weather patterns, high input costs, low profit and limited access to markets. To address these challenges, this project proposes an agriculture management system that enables the farmers to sell their products directly to users, companies to sell farming tools to farmers, and labours to seek jobs from farmers.

This is an online portal for the farmers for their farming needs. In this website the farmers can sell their yields at a reasonable price. They can buy seeds, machineries and other needy things for their purposes. Hence, providing a wider market and helping them to not restrict themselves to the local market. It helps the farmers to increase their productivity and profitability by eliminating middlemen and helps the retailers in buying fresh products from large number of trusted farmers. It features online shopping for fertilizer, pesticides, machinery and tools etc. It helps the farmer to keep track of their agricultural production and enables them to hire labours. Farmers can view labour profiles and they can hire labours. This online website is designed using PHP and MySQL. In this project we are able to add, delete and update Employee. The customers can also buy the products directly from the farmer. It provides users to get online information about fruits, vegetables and new tendencies and registered users can give their reviews on the website.

The agriculture management system aims to streamline and simplify the agriculture industry's management process, benefiting all stakeholders involved in the agriculture value chain. By utilizing modern technology, this system can overcome traditional barriers in the agriculture industry, such as limited market access, high transaction costs, and lack of transparency. This project can pave the way for a newer era of marketing which will result in a more efficient, sustainable, and equitable agriculture industry, empowering farmers, companies, and laborers to realize their full potential.

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CHAPTER 1

INTRODUCTION

1.1 OBJECTIVE

The primary objective of this project is to revolutionize and simplify the management process within the agriculture industry. By addressing long standing obstacles that have hindered progress in the field, such as restricted market access, exorbitant transaction costs, and a lack of transparency, the project aims to streamline operations and facilitate growth.

The website created as part of this initiative serves as a pivotal platform where farmers can effectively sell their produce at equitable prices. Beyond serving as a marketplace, the website offers an array of functionalities designed to empower farmers. This includes the ability to procure essential resources like seeds and machinery, all conveniently accessible through online shopping. The platform not only offers an extensive selection of items including fertilizers, pesticides, machinery, and tools, but also fosters an environment where farmers can better manage their agricultural production and even employ additional labor when needed.

Additionally, the website serves as an invaluable source of information for farmers. It not only provides insights into the latest trends and developments in fruits and vegetables, but also facilitates knowledge-sharing among registered users who can contribute their reviews and feedback. This collaborative approach enhances the overall experience and encourages a dynamic exchange of information.

Furthermore, the project emphasizes inclusivity by creating a space for laborers to connect with potential employers. The website integrates a feature that allows laborers to directly apply for job vacancies posted by farmers, establishing a seamless and efficient channel for recruitment.

In summary, this project's overarching objectives are aimed at modernizing the agricultural landscape, empowering farmers with comprehensive tools, fostering information dissemination, and fostering a sense of community within the industry. Through these endeavors, the project seeks to contribute to the growth and development of the agriculture sector by surmounting traditional challenges and paving the way for a more efficient and interconnected future.

1.2 SCOPE

The proposed agriculture management system holds significant promise in revolutionizing the agriculture industry by addressing existing challenges and unlocking new opportunities. Its scope is anchored in the creation of an online portal designed to facilitate seamless interactions among farmers, users, companies, and laborers, thereby fostering efficiency and transparency throughout the agriculture value chain. By enabling direct transactions between farmers and users, the system expands market access for farmers while ensuring users have access to fresh produce from a wide network of trusted sources. Moreover, the inclusion of online shopping for essential inputs like fertilizers, pesticides, machinery, and tools not only modernizes procurement processes but also empowers farmers to enhance their productivity and profitability.

However, the project's reach is constrained by certain limitations. Farmers lacking familiarity with computers or the internet may encounter difficulties navigating the online portal, prompting the need for user-friendly interfaces and educational initiatives. The language limitation, with the portal currently supporting only English, underscores the necessity of implementing multilingual support to accommodate the diverse farming communities effectively. The project's success also hinges on reliable internet infrastructure, acknowledging that inadequate access could impede widespread adoption among farmers, particularly in remote areas.

Furthermore, the project's ambition to revolutionize agricultural transactions is tempered by the current absence of online payment options, confining transactions to cash-on-delivery. This limitation underscores the importance of expanding payment avenues to encompass digital methods, enhancing convenience and accessibility for all stakeholders involved.

In conclusion, while the project's scope encompasses transformative potential, the path forward must address the identified limitations to ensure inclusivity, usability, and widespread adoption. By systematically addressing these challenges, the agriculture management system can actualize its vision of streamlining industry processes, empowering stakeholders, and paving the way for a more efficient, sustainable, and equitable agriculture sector.

1.3 METHODOLOGY

The methodology employed in this project reflects a dynamic and user-centric approach, guided by an iterative and agile framework. Central to the methodology is an unwavering focus on comprehending the intricate needs of farmers and stakeholders in the agriculture industry, while continually adapting to evolving requirements and user experiences.

The iterative nature of the methodology underscores a continuous cycle of learning, implementing, and refining. This process begins with an in-depth analysis of the challenges and requirements faced by farmers, thereby informing the design and development of a highly user-friendly agriculture management system. The project team collaborates closely with end-users to gather insights and feedback, fostering a transparent and responsive development journey.

Key stages within the methodology encompass the conception of the system, involving technologies such as JSP, CSS, and JavaScript to construct a dynamic and visually appealing front-end interface. Backed by the power of PHP and MySQL, the back-end system is meticulously crafted, facilitating seamless data processing, storage, and retrieval. Notably, the adoption of the Laravel framework enhances the system's scalability and performance, ensuring a robust foundation for present and future requirements.

Testing and quality assurance play an integral role in this methodology, ensuring that every facet of the system aligns with its intended functionality. Rigorous testing procedures are conducted across various scenarios, safeguarding the user experience and system reliability.

Moreover, the methodology is characterized by ongoing support and refinement, acknowledging that the journey doesn't conclude with system deployment. Continuous engagement with farmers, companies, and laborers enables the project to swiftly address emerging needs and rectify any issues that may arise. This responsive approach fosters a sense of ownership among the stakeholders, as they witness their suggestions and concerns being actively integrated into the system's evolution.

CHAPTER 2

BACKGROUND INFORMATION

2.1 EXISTING SYSTEM

In traditional agriculture there existed only the server and the client. In most cases the server was only a database server that can only offer data. Therefore the majority of the business logic had to be placed on the clients system. This makes maintenance expensive. Such clients are called 'fat clients'. This also means that every client has to be trained as to how to use the application and even the security in the communication is also a factor to be considered.

Since the actual processing of the data takes place on the remote client the data has to be transported over the network, which requires a secured format of the transfer method. How to conduct transactions is to be controlled by the client and advanced techniques implementing the cryptographic standards in executing the data transfer transactions. Present day transactions are considered to be "un-trusted" in terms of security, i.e. they are relatively easy to be hacked. And also we have to consider the transfer of the large amount of data through the network will give errors while transferring. Nevertheless, sensitive data transfer is to be carried out even if there is lack of an alternative. Network security in the existing system is the motivation factor for a new system with higher-level security standards for the information exchange

2.2 PROPOSED SYSTEM

The proposed Agriculture Management System offers an innovative solution to the complex challenges faced by the global agriculture sector. While crucial to the world economy for sustenance, textiles, and energy, agriculture grapples with obstacles such as unpredictable weather, high input costs, limited market access, and low profitability. This project introduces a digital platform that empowers farmers, companies, and laborers to interact directly, bypassing intermediaries and traditional barriers.

At its core, the system serves as an online hub, enabling farmers to sell directly to end-users, companies to supply tools directly to farmers, and laborers to find job opportunities. By leveraging modern technology, the system streamlines operations, broadening market reach and

fostering transparency. Farmers gain access to a wider marketplace, increasing sales and profitability, while retailers acquire fresh produce from trusted sources.

The platform facilitates streamlined online shopping for agricultural inputs and offers tools for production tracking and labor management. The inclusive labor marketplace empowers farmers to efficiently hire based on skills. The system's PHP and MySQL architecture supports dynamic employee management, enhancing operational efficiency.

The project envisions expansion to a broader user base, supported by improved internet access and multilingual functionality, benefiting rural communities. Extending services to include consultation and training demonstrates commitment to comprehensive industry growth.

2.3 HARDWARE AND SOFTWARE REQUIREMENTS

The successful implementation and functionality of the proposed Agriculture Management System rely on a specific set of hardware and software requirements. On the software front, the system is compatible with Windows 7 or higher operating systems, making it accessible to a wide range of users. Development and coding are facilitated through tools like Visual Studio, enabling efficient programming. The integration of a robust database system is crucial, with SQL Server providing the necessary foundation for data storage and management. Additionally, Dreamweaver serves as an essential software for web development, aiding in designing user-friendly interfaces and interactive elements. To deploy the system, XAMPP is employed, ensuring a seamless connection between the web application and the database. Usability and accessibility are paramount, necessitating browser compatibility for smooth user interaction.

Complementing the software requirements are the hardware prerequisites, designed to provide optimal performance and reliability. A processor with a speed of 2.1 GHz or higher ensures efficient execution of operations, guaranteeing a responsive user experience. To accommodate the system's functionalities and manage data effectively, a minimum of 4GB of RAM is required, enabling smooth multitasking and resource handling. A hard disk drive with at least 10GB of free space is essential for storage of application files, databases, and user-generated content. These hardware specifications enable the system to handle data processing, storage, and user interactions seamlessly, ensuring a robust and user-friendly platform for farmers,

companies, and laborers to engage, collaborate, and benefit from the streamlined agricultural management processes.

2.4 FUNCTIONALITIES OF PROPOSED SYSTEM

The proposed Agriculture Management System introduces a range of comprehensive and interconnected functionalities that collectively aim to transform the landscape of agricultural interactions. At its core, the system empowers farmers by enabling them to directly sell their products to users, thereby eliminating middlemen and fostering enhanced productivity and profitability. This direct-to-user approach not only broadens market access but also streamlines the entire transaction process, promoting a more equitable and transparent trading environment.

Simultaneously, the platform provides a marketplace where companies can offer a diverse array of farming tools, including seeds, machinery, and pesticides, directly to farmers. This integration not only facilitates efficient procurement of essential resources but also supports agricultural innovation and modernization. Furthermore, the system bridges the gap between farmers and available labor by allowing laborers to seek job opportunities directly from farmers, enhancing employment opportunities and labor-market transparency.

For users seeking information about produce, the system serves as an informative hub, offering online insights into fruits, vegetables, and emerging trends. Registered users can actively contribute their reviews, fostering a collaborative environment and facilitating informed decision-making. The multi-module design caters to the distinct roles within the agricultural ecosystem, encompassing Farmers, Companies, Consumers, Labour, and Admin.

Within these modules, farmers gain functionalities that range from selling their yield and purchasing vital supplies from companies to hiring labor and monitoring order statuses. Companies, on the other hand, can effectively market and sell farming tools, while consumers, which include both farmers and companies themselves, can access a diverse range of products, track order statuses, and contribute reviews.

Ultimately, the proposed system transcends traditional barriers by utilizing technology to provide a streamlined platform that not only optimizes market access and reduces transaction costs but also enhances transparency and collaboration within the agriculture value chain. By

empowering each stakeholder — from farmers to companies to consumers — the system envisions a more efficient, sustainable, and equitable agriculture industry that harnesses the full potential of modern technology while fostering a sense of interconnectedness and shared prosperity.

2.5 MODULAR DESCRIPTION

The proposed Agriculture Management System comprises distinct modules, They are:-

- **Farmers module** - It helps farmers to directly sell their yield to users while bypassing intermediaries. Through this module, farmers can not only expand their market reach but also enhance productivity and profitability by eliminating middlemen. Additionally, farmers can purchase essential resources like seeds, machinery, and pesticides from the Companies module, thereby ensuring a comprehensive support system for their agricultural endeavors. This module also facilitates the hiring of labor, streamlining workforce management and ensuring efficient operations.
- **Companies module** - It accommodates businesses offering farming tools, creating a dynamic marketplace where farmers can acquire necessary equipment. Companies benefit from a streamlined order management system, enabling real-time updates on order statuses. This module fosters a collaborative ecosystem where businesses can effectively serve the needs of farmers while expanding their customer base.
- **Consumers module** - It encompasses both individual consumers and the farmers and companies themselves. It allows consumers to purchase farming tools, equipment, and yields directly, providing a seamless shopping experience. Real-time notifications about order statuses enhance customer engagement, ensuring transparency and accountability in transactions. This module's unique dual-role functionality acknowledges that farmers and companies, in addition to their primary roles, may also engage as consumers.
- **Labors module** - It establishes a platform for laborers seeking job opportunities within the agriculture sector. Laborers can apply for positions based on their skills, connecting with farmers in need of additional workforce. Moreover, this module enables laborers to purchase yields directly from farmers, enhancing convenience and accessibility.

- **Admin module** - It governs the overall system, ensuring smooth operations, user management, and system maintenance. Admins have the authority to manage user accounts, oversee transactions, and maintain the integrity of the platform. This module acts as the control center, maintaining the balance and functionality of the various modules while ensuring security and adherence to platform guidelines.

CHAPTER 3

PROJECT DESIGN AND IMPLEMENTATION

3.1 SYSTEM ARCHITECTURE

The Agriculture Management System architecture is designed to facilitate seamless interactions between farmers, companies, laborers, consumers, and administrators. The architecture leverages web technologies, databases, and user interfaces to provide a comprehensive platform for managing agricultural activities, transactions, and information sharing.

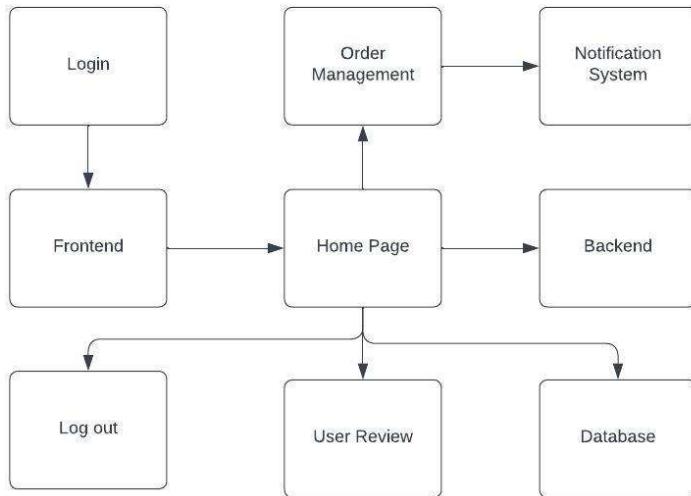


Fig 3.1.1 System Architecture Diagram

Main Components:

- Frontend: The user interfaces accessible via web browsers or mobile devices. This includes different interfaces for Farmers, Companies, Labors, Consumers, and Administrators.
- Backend: The core logic and processing engine that manages data, processes requests, and performs business logic.
- Database: A relational database (using MySQL in this case) to store user data, product information, orders, reviews, labor profiles, and other relevant data.

- Login: A secure authentication and authorization system to ensure that only authorized users can access the system and perform specific actions based on their roles.
- Order Management: A module to manage orders placed by consumers and farmers, including order processing, updating order statuses, and sending notifications to relevant parties.
- Reviews and Feedback: A feature to allow registered users to submit reviews and feedback on products, services, and other users.
- Notification System: A mechanism to send notifications and alerts to users regarding order status changes, job applications, and other relevant updates.

Interactions:

- Farmers can interact with the system to sell their products, buy seeds and tools, hire laborers, and manage their agricultural production.
- Companies can list and sell farming tools, manage orders, and interact with farmers and consumers.
- Laborers can apply for jobs, view job listings, and communicate with farmers.
- Consumers can purchase farming tools, yields, and provide reviews.
- Administrators manage the system, monitor activities, and ensure smooth operation.

3.2 DATA COLLECTION

The data for this project was collected through a combination of primary and secondary sources. Below is an overview of the data collection sources, methods, and preprocessing steps applied:

Sources:

- Surveys and Questionnaires: Surveys were designed and distributed among farmers, companies, laborers, and consumers to gather insights about their requirements, preferences, challenges, and expectations from the proposed system. The surveys were conducted both online and in person.
- Interviews: In-depth interviews were conducted with key stakeholders, including farmers, agricultural equipment companies, laborers, and consumers. These interviews provided qualitative data and allowed for a deeper understanding of their daily operations and needs.
- Literature Review: Existing literature, research papers, and reports related to the agriculture industry, e-commerce platforms, and labor dynamics were reviewed. This helped in gaining insights into industry trends, challenges, and potential solutions.
- Industry Reports: Industry reports, market analyses, and government publications were consulted to gather data on agriculture market trends, challenges faced by farmers, market access issues, and labor dynamics.

Data Preprocessing Steps:

- Data Cleaning: Raw survey responses and interview transcripts were cleaned to remove any irrelevant or redundant information. This step ensured that the collected data was accurate and consistent.
- Categorization and Tagging: Responses from surveys and interviews were categorized based on the roles of stakeholders (farmers, companies, laborers, consumers). This categorization facilitated the organization of data and analysis based on specific functional groups.
- Quantitative Analysis: Quantitative data from surveys were analyzed using statistical tools to identify patterns, preferences, and trends among different stakeholder groups. This analysis provided insights into the preferences for products, payment methods, challenges, etc.

- Qualitative Analysis: Qualitative data from interviews were analyzed thematically to extract meaningful insights and quotes that could help understand the motivations, challenges, and expectations of different stakeholders.
- Translation: If necessary, responses collected in languages other than English were translated to ensure a uniform dataset for analysis.
- Data Integration: Data collected from different sources, including surveys, interviews, and secondary sources, were integrated to provide a comprehensive overview of the agriculture industry's landscape and challenges.

3.3 USE CASE DIAGRAM

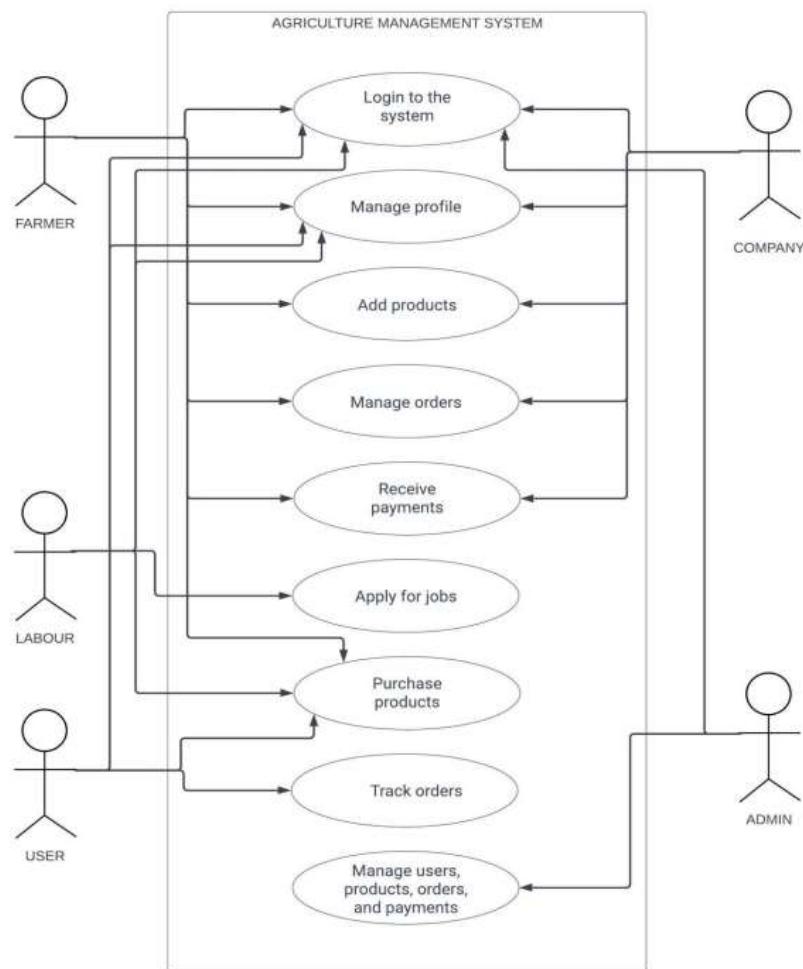


Fig 3.3.1 Use Case Diagram

The use case diagram encapsulates the intricate choreography of the Agriculture Management System, showcasing how each actor's participation contributes to the system's efficiency and effectiveness. In the use case diagram we have identified five actors: FARMER, COMPANY, LABOUR, USER, ADMIN. The interconnectedness and synergy between these actors form a cohesive framework that propels the system toward its goal of modernizing and invigorating the agriculture value chain.

The FARMER represents the farmers who are selling their products in the website, COMPANY represents the companies who sell there agriculture products through the website, LABOUR represents the labours who are hired by the farmers to deliver the products, USER represents the customers who purchase the products through the website, ADMIN represents the person who handles the website by allowing new users to sign in and the farmers to sell their products and companies to register in to sell their products

- The 'login to the system' use case is related to FARMER, COMPANY, LABOUR, USER, ADMIN as they all have to login to the website to access the features
- The 'manage profile' is associated with all the actors except the ADMIN since all them can update their profile depending on the market conditions
- The 'add products', 'manage orders', 'receive payments' use cases are related to FARMER and COMPANY because they can add their products depending on their availability, they can manage the order details and their delivery and can update about the payments made for their products
- The 'apply for jobs' use case is related to LABOURS because they will register into the website for required jobs and from that the farmers can hire them for delivery.
- The 'purchase products' use case is related to FARMERS, LABOURS, USERS because they all can purchase the products through the website .The 'track orders' use case is related to the USER for the user to track their product status.

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- The 'manage users, products, orders and payments' use case is related to the ADMIN as admin manages all the entries, logins and the supply of the products through the website.

3.4 SEQUENCE DIAGRAM

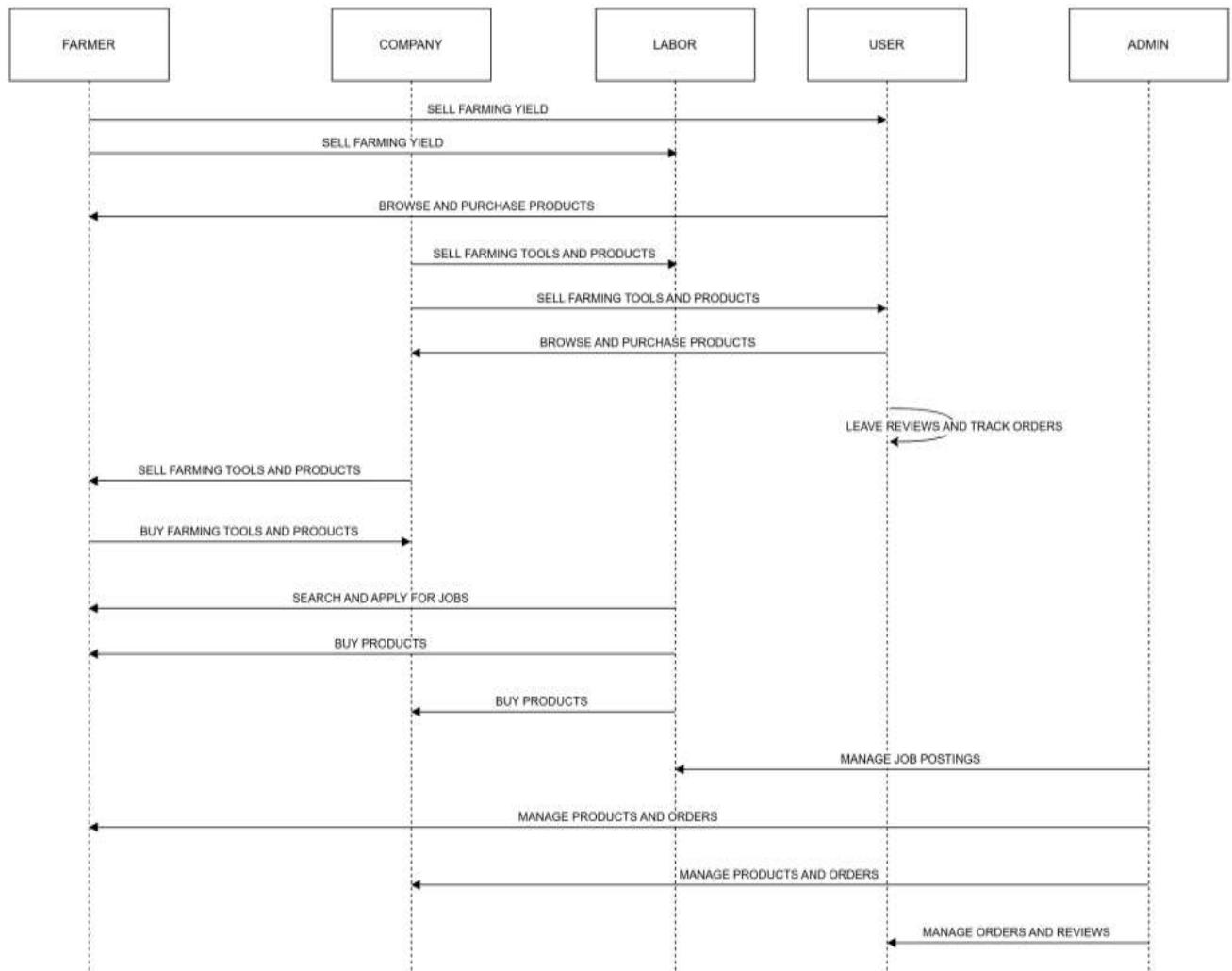


Fig 3.4.1 Sequence Diagram

The above figure shows interaction between various modules in our system. As shown in the figure,

- The farmer produces yield which can be brought by labour and normal users. Farmers can also purchase farming tools from companies.

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- Companies can sell farming tools and agriculture products like seeds to users and farmers.
- Labours are able to search and apply for farming chores besides making purchases.
- Users can leave reviews to help peers make better purchase decisions.
- The admin acts as a manager for the entire system helping in labour recruitment, order management and review handling.

3.5 ACTIVITY DIAGRAM

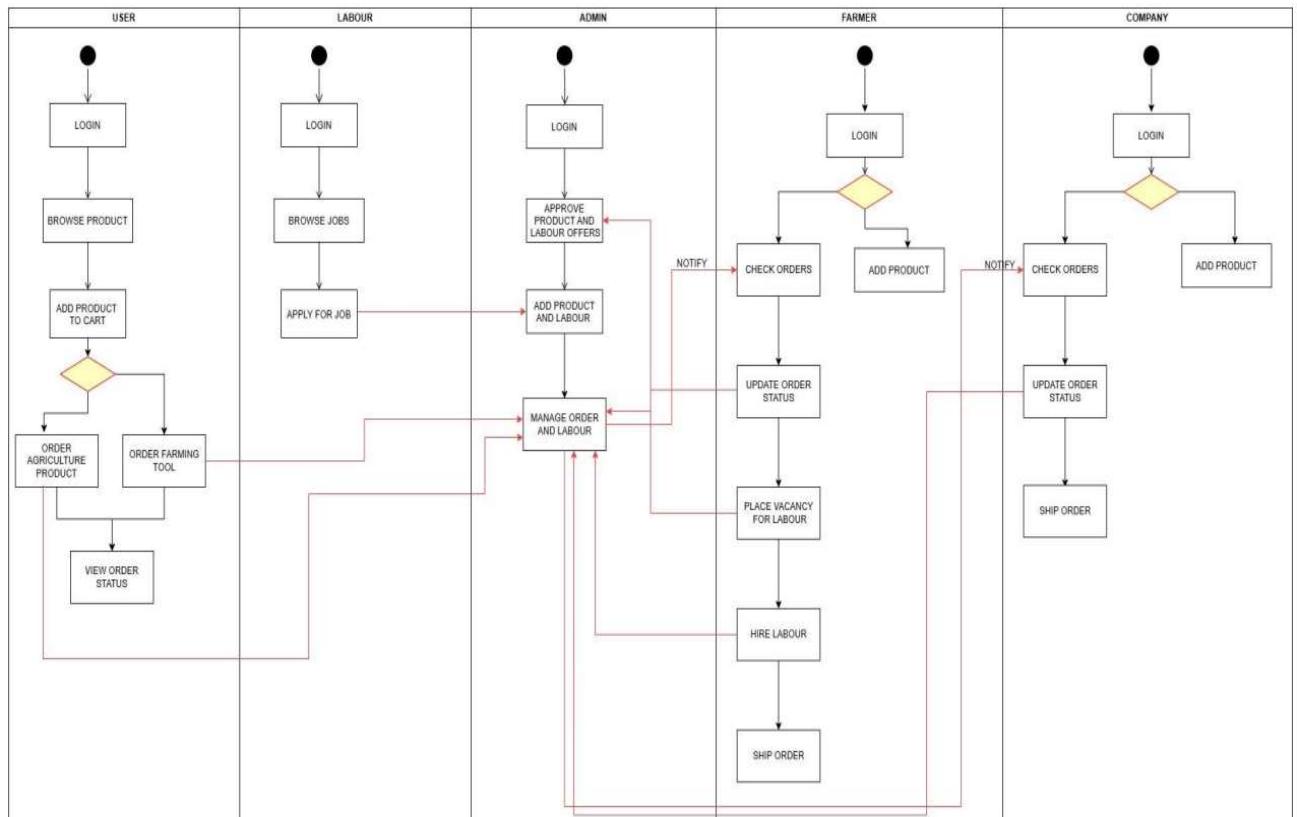


Fig 3.5.1 Activity Diagram

In the activity diagram of our agriculture management system website , the user logins to their registered accounts which was already approved by the admin through the login portal then the user can browse the website for their required products, if the user wishes to purchase they have two options whether to purchase the agriculture products or farming tools,these order details are

directed to the admin where he manages the order then the user will be able to track the status of the order

The labour also logins to the registered account which was already approved by the admin and through that account he searches for jobs available and then applies for them which is then directed to the admin where admin manages the request and make it available for the required farmers .

The farmer also logins to their account and they can either add new products or check for orders made by the users the farmer then updates the status of the order and it is directed to the admin, he also updates the requirements for the labours and hires them and ships the orders made

The company also logins to their registered accounts and they can either check the order status for their products or can add new products to their account, the order status from the users and farmers are updated by the admin and the company then updates the status of the order and then ships them .

The admin too has a registered account where he logins and manages all other factors in this website starting from approving the registration of the accounts of the farmer,user,company,labour.The admin then approves the new products added and the new labours assigned for the job and thus manages the orders and labour requirements made here.

CHAPTER 4

CONCLUSION

4.1 SUMMARY OF FINDINGS

The proposed Agriculture Management System presents a comprehensive solution to the challenges faced by the global agriculture industry. Recognizing the vital role of this sector in the economy, the system leverages technology to empower farmers, companies, and laborers alike, driving efficiency, transparency, and sustainability.

The system's primary objectives center around facilitating direct interactions between farmers and users, companies, and laborers. By enabling farmers to sell their yields directly, it eliminates intermediary hurdles, enhancing their productivity and profitability. Similarly, companies can offer farming tools directly to farmers, streamlining access to essential resources. Labors gain a dedicated platform to seek employment, enhancing labor-market dynamics.

This online portal not only widens farmers' market reach but also empowers them with tools to enhance agricultural practices. Through features like online shopping for inputs and machinery, it modernizes their operations while allowing them to manage production and hire labors seamlessly. The inclusion of consumer functionalities, providing information about produce and tools, fosters an engaged community.

The system overcomes traditional barriers by embracing modern technology. Its PHP and MySQL architecture ensures functionality, supporting features like adding, deleting, and updating employee profiles. While English is currently supported, future enhancements promise multilingual access, catering to diverse farming communities.

However, the system's impact faces limitations. Notably, the digital divide may hinder computer and internet-averse farmers from effectively using the portal. Moreover, unreliable internet access could impede widespread adoption, highlighting the importance of collaborating with local infrastructure providers.

A key constraint lies in the absence of online payment options, limiting transactions to cash upon delivery. While this minimizes its scope for now, future integration of secure online payments could significantly improve convenience and expand its user base.

Looking ahead, the system holds promising prospects. As internet connectivity proliferates, it can attract more farmers from rural areas, expanding its user base and reach. Additionally, offering agri-related services like consulting and training can elevate its value proposition, contributing to holistic agricultural development.

In conclusion, the Agriculture Management System's significance is twofold: it addresses immediate challenges faced by the industry and lays the groundwork for a transformed agricultural landscape. By fostering direct interactions, embracing technology, and planning for inclusivity and expansion, the system aspires to contribute to a more efficient, sustainable, and empowered agriculture sector.

4.2 LIMITATIONS AND FUTURE WORKS

Limitations in the proposed Agriculture Management System project indicate areas where further development and improvement are necessary to maximize the system's impact and reach. Here are the limitations and their possible future work:

1. Limitation: Limited Computer and Internet Literacy among Farmers

Future Work: Initiate targeted digital literacy programs to train farmers in using computers and the internet. Collaborate with local educational institutions or NGOs to offer workshops that empower farmers with essential digital skills. This effort can enhance their confidence and competence in navigating the online portal.

2. Limitation: Lack of Multilingual Support

Future Work: Integrate multilingual support into the online portal to cater to diverse farming communities. Collaborate with linguists and community representatives to identify the most relevant languages for inclusion. This enhancement will expand the user base and ensure the platform is accessible to a wider range of users.

3. Limitation: Internet Infrastructure Challenges

Future Work: Collaborate with government agencies, telecommunications companies, and other stakeholders to improve internet connectivity in rural areas. Initiatives such as setting up community Wi-Fi networks or utilizing satellite internet technology could bridge the gap and ensure reliable access to the online platform.

4. Limitation: Limited Payment Options

Future Work: Implement secure and user-friendly online payment options, such as mobile money or digital wallets, to provide flexibility for users when making payments. This enhancement can facilitate seamless transactions and encourage more users to make purchases through the platform.

5. Limitation: Expansion of Services beyond E-Commerce

Future Work: Beyond the current functionalities, consider incorporating additional services such as personalized agricultural advice, weather forecasts, and crop management insights. This expansion can position the platform as a comprehensive resource hub, providing users with valuable information to improve their farming practices.

6. Limitation: Integration of AI and Data Analytics

Future Work: Explore the integration of artificial intelligence and data analytics to provide personalized recommendations to farmers based on their historical data and market trends. This can enhance decision-making and optimize agricultural practices, contributing to increased productivity.

7. Limitation: Inclusivity through Voice Interfaces

Future Work: Introduce voice-based interfaces that allow users to interact with the platform using voice commands. This innovation could particularly benefit users with limited literacy or those who are more comfortable using spoken language.

8. Limitation: Collaboration with Agri-Related Organizations

Future Work: Collaborate with agricultural research institutions, NGOs, and government agencies to enhance the platform's offerings. This can include providing access to educational resources, training materials, and expert advice on sustainable farming practices.

9. Limitation: User Experience Enhancement

Future Work: Continuously gather user feedback and conduct usability studies to identify pain points and areas for improvement in the platform's design and functionality. Regular updates based on user input can enhance the overall user experience.

The limitations identified in the proposed Agriculture Management System project can be transformed into opportunities for future enhancements. Through targeted initiatives, technological innovations, and collaborations with relevant stakeholders, the project can evolve to become a more inclusive, effective, and valuable tool for farmers, companies, laborers, and consumers alike.

CHAPTER 5

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CHAPTER 6

APPENDIX

6.1 CODE SNIPPET

- Login

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <link
        href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta2/dist/css/bootstrap.min.css" rel="stylesheet"
        integrity="sha384-BmbxuPwQa2lc/FVzBcNJ7UAyJxM6wuqIj61tLrc4wSX0szH/E
v+nYRRuWlolflfl" crossorigin="anonymous">
    <title>login-page</title>
</head>
<body>
    <header>
        <nav class="navbar navbar-light bg-dark">
            <div class="container-fluid">
                <span class="navbar-brand mb-0 h1 text-white">AMS</span>
            </div>
        </nav>
    </header>
    <section id="loginForm">
        <div class="container-fluid mt-4 mb-4">
            <h1 class="text-center">LOGIN</h1>
        </div>
        <div class="container-fluid m-auto" style="width: 80%;>
<form>
    <div class="mb-3">
        <label for="phoneNumber" class="form-label">Phone
        Number</label>
        <input type="text" class="form-control" id="phoneNumber">
    <div class="mb-3">
        <label for="exampleInputPassword1"
        class="form-label">Password</label>
```

```
<input type="password" class="form-control"
id="exampleInputPassword1">
</div>
<button type="submit" class="btn btn-primary"
name="login">Login</button>
</form>
</div>
<p>Not registered yet? Please <a
href="registration.php">Register</a> here!</p>
</section>
<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.6.0/dist/umd/popper.min.js"
integrity="sha384-KsvD1yqQ1/1+IA7gi3P0tyJcT3vR+NdBTTt13hSJ2lnve8agRGXTTyNaBYmCR/Nwi" crossorigin="anonymous"></script>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta2/dist/js/bootstrap.min.js"
integrity="sha384-nsg8ua9HAWly0W1btstyWgBklPnCUAFLuTMS2G72MMONqmOymq585AcH49TLBQObG" crossorigin="anonymous"></script>
</body>
</html>
```

- Register

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"
integrity="sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3oUOFUFpCjEUQouq2+l" crossorigin="anonymous">
    <title>registration</title>
</head>
<body>
<header>
    <nav class="navbar navbar-light bg-dark">
        <div class="container-fluid">
```

```
<a href="index.html"><span class="navbar-brand mb-0 h1 text-white">AMS</span></a>
</div>
</nav>
</header>
<section id="registrationForm">
    <h1 class="mt-4 mb-4 text-center">Register</h1>
    <div class="container-fluid m-auto" style="width:80%;">
        <form>
            <div class="form-group">
                <label for="firstName">First Name</label>
                <input type="text" class="form-control" id="firstName" required>
            </div>
            <div class="form-group">
                <label for="lastName">Last Name</label>
                <input type="text" class="form-control" id="lastName" required>
            </div>
            <div class="form-group">
                <label for="exampleFormControlSelect1">User Type</label>
                <select class="form-control" id="exampleFormControlSelect1" name="userType">
                    <option>User</option>
                    <option>Farmer</option>
                    <option>Seller</option>
                    <option>Labour</option>
                </select>
            </div>
            <div class="form-group">
                <label for="phoneNumber">Phone Number</label>
                <input type="text" pattern="[0-9]{10}" title="A phone number should only contain numbers and of 10 numbers" class="form-control" id="phoneNumber" required>
            </div>
            <div class="form-group">
                <label for="emailId">Email address</label>
                <input type="email" class="form-control" id="emailId" required>
            </div>
            <div class="form-group">
                <label for="password">Password</label>
                <input type="password" class="form-control" id="password" required>
            </div>
            <div class="form-group">
```

```
<label for="confirmPassword">Confirm Password</label>
<input type="password" class="form-control"
id="confirmPassword" required>
</div>

<button type="submit" class="btn btn-primary"
name="register">Register</button>
</form>
</div>
</section>

<footer class="bg-dark text-white mt-2">
<div class="container-fluid">
    &copy Agricultural Management System
</div>
</footer>

<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"
integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+Ibb
VYUew+OrCXaRkfj" crossorigin="anonymous"></script>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/js/bootstrap
.bundle.min.js"
integrity="sha384-Piv4xVNRYMGpqkS2by6br4gNJ7DXjqk09RmUpJ8jgGtD7zP9y
ug3goQfGII0yAns" crossorigin="anonymous"></script>
</body>
</html>
```

- Sell Crop

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap
.min.css"
integrity="sha384-B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvF6L/Z6nronJ3ouO
FUFpCjEUQouq2+l" crossorigin="anonymous">
    <title>sell crop</title>
```

```

</head>
<body>
    <header>
        <nav class="navbar navbar-light bg-dark">
            <div class="container-fluid">
                <a href="index.html"><span class="navbar-brand mb-0 h1 text-white">AMS</span></a>
            </div>
        </nav>
    </header>
    <section id="sellCrops">
        <h3 class="text-center mt-4 md-4">ADD CROP</h3>
        <div class="container-fluid" style="width: 80%; ">
            <form>
                <div class="form-group">
                    <label for="cropName">Crop Name</label>
                    <input type="text" class="form-control" id="cropName" name="cropName">
                </div>
                <div class="form-group">
                    <label for="cropQuantity">Crop Quantity</label>
                    <input type="number" class="form-control" id="cropQuantity" name="cropQuantity">
                </div>
                <div class="form-group">
                    <label for="cropPrice">Crop Price</label>
                    <input type="number" class="form-control" id="cropPrice" name="cropPrice" aria-describedby="priceDesc">
                    <small id="priceDesc" class="form-text text-muted">Price must be entered per KG</small>
                </div>
                <div class="form-group">
                    <label for="cropImage">Crop Image</label>
                    <input type="file" accept="image/jpg,image/jpeg" class="form-control" id="cropImage" name="cropImage">
                </div>
                <button type="submit" class="btn btn-primary">Submit</button>
            </form>
        </div>
    </section>

    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js">

```

```
integrity="sha384-Dfxdz2htPH01sSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+Ibb
VYUew+OrCXaRkfj" crossorigin="anonymous">></script>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/js/bootstrap
.bundle.min.js"
integrity="sha384-Piv4xVNRYMGpqkS2by6br4gNJ7DXjqk09RmUpJ8jgGtD7zP9y
ug3goQfGII0yAns" crossorigin="anonymous">></script>
</body>
</html>
```

- **Hire Labour**

```
<?php
session_start();
if(!isset($_SESSION['firstName'])){
    echo "<script>alert('You must login to view this
page');</script>";
    echo "<script>window.location.href='../../login.php';</script>";
}
?>
<?php
if(isset($_POST['logout'])){
    session_destroy();
    unset($_SESSION['firstName']);
    header('location: ../../login.php');
}
?>
<!DOCTYPE html>
<html lang="en">

<head>

    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1, shrink-to-fit=no">
    <meta name="description" content="">
    <meta name="author" content="">
    <link rel="stylesheet"
href="https://cdn.datatables.net/1.10.24/css/dataTables.bootstrap4.
min.css">

    <title>Hire Labour</title>
```

```
<!-- Bootstrap core CSS -->
<link href="vendor/bootstrap/css/bootstrap.min.css"
rel="stylesheet">

<!-- Custom styles for this template -->
<link href="css/simple-sidebar.css" rel="stylesheet">
<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.2/cs
s/all.min.css"
integrity="sha512-HK5fgLBL+xu6dm/Ii3z4xhlSUyZgTT9tuc/hSrtw6uzJ0vgRr
2a9jyxxT1ely+BxFAmJKVSTbpM/CuL7qxO8w==" crossorigin="anonymous" />

<style>
.container1 {
    display: flex;
    flex-direction: column;
    cursor: pointer;
    left: 0px;
}

.bar1, .bar2, .bar3 {
    width: 35px;
    height: 5px;
    background-color: #333;
    margin: 2px 0;
    transition: 0.4s;
}

.change .bar1 {
    -webkit-transform: rotate(-45deg) translate(-9px, 6px);
    transform: rotate(-45deg) translate(-9px, 6px);
}

.change .bar2 {opacity: 0; }

.change .bar3 {
    -webkit-transform: rotate(45deg) translate(-8px, -8px);
    transform: rotate(45deg) translate(-8px, -8px);
}

.card-horizontal {
display: flex;
flex: 1 1 auto;
}
```

```
</style>

</head>

<body>
<?php include '../header.php' ?>
<?php include '../connection.php' ?>
<div class="d-flex" id="wrapper">

    <!-- Sidebar -->
    <div class="bg-dark text-white border-right"
id="sidebar-wrapper">
        <div class="sidebar-heading"><?php echo
$_SESSION['firstName']; echo " ".$_SESSION['lastName']; ?></div>
        <div class="list-group list-group-flush">
            <a href="farmer-homepage.php" class="list-group-item
list-group-item-action bg-dark text-white">Home</a>
            <a href="sellCrop.php" class="list-group-item
list-group-item-action bg-dark text-white">Sell Crop</a>
            <a href="myCrops.php" class="list-group-item
list-group-item-action bg-dark text-white">My Crops</a>
            <a href="hireLabour.php" class="list-group-item
list-group-item-action bg-dark text-white">Hire Labour</a>
            <a href="buyMachinery.php" class="list-group-item
list-group-item-action bg-dark text-white">Buy Machinery</a>
            <a href="buyFertilizer.php" class="list-group-item
list-group-item-action bg-dark text-white">Buy Fertilizer</a>
            <a href="recievedOrders.php" class="list-group-item
list-group-item-action bg-dark text-white">Recieved Orders</a>
            <a href="myOrders.php" class="list-group-item
list-group-item-action bg-dark text-white">My Orders</a>
            <form action="" method="POST">
                <a class="list-group-item list-group-item-action bg-dark
text-white"><button type="submit" name="logout" style="border:none;
background: none;" class="text-white">Logout</button></a>
            </form>
        </div>
    </div>
    <!-- /#sidebar-wrapper -->

    <!-- Page Content -->
    <div id="page-content-wrapper">
```

```

<nav class="navbar navbar-expand-lg navbar-light bg-light border-bottom">
    <div id="menu-toggle" class="container1">
        <div class="bar1"></div>
        <div class="bar2"></div>
        <div class="bar3"></div>
    </div>
</nav>

<div class="container-fluid">
<nav class="navbar navbar-expand-lg navbar-light bg-light">
    <ul class="navbar-nav mr-auto">
        <li class="nav-item active">
            <a class="nav-link" href="hireLabour.php">Hire
            Labours<span class="sr-only" style="font-size: small;">(current)</span></a>
        </li>
        <li class="nav-item">
            <a class="nav-link" href="hiredLabours.php">Hired
            Labours</a>
        </li>
    </ul>
</nav>
<h3 class="text-center">Hire Labour</h3>
<form action="labours.php" method="POST">
    <div class="form-group">
        <label for="place">Place</label>
        <select name="place" class="form-control">
            <option>Thiruvananthapuram</option>
            <option>Kollam</option>
            <option>Pathanamthitta</option>
            <option>Alappuzha</option>
            <option>Kottayam</option>
            <option>Idukki</option>
            <option>Ernakulam</option>
            <option>Thrissur</option>
            <option>Palakkad</option>
            <option>Malappuram</option>
            <option>Kozhikode</option>
            <option>Wayanad</option>
            <option>Kannur</option>
            <option>Kasargod</option>
        </select>
    </div>
    <div class="form-group">

```

```
<label for="role">Role:</label>
<select name="role" class="form-control">
<?php $query = "SELECT DISTINCT role FROM labour";
$result = mysqli_query($conn,$query);
if(mysqli_num_rows($result)>0) {
    while($data = mysqli_fetch_assoc($result)){
        echo "<option>".$data['role']."</option>";
    }
}
?>
</select>
</div>
<button class="btn btn-primary">Submit</button>
</form>
</div>

</div>

<script src="vendor/jquery/jquery.min.js"></script>
<script
src="vendor/bootstrap/js/bootstrap.bundle.min.js"></script>

<script
src="https://cdn.datatables.net/1.10.24/js/jquery.dataTables.min.js"
"></script>
<script
src="https://cdn.datatables.net/1.10.24/js/dataTables.bootstrap4.mi
n.js"></script>
<script>
$(document).ready(function() {
    $('#example').DataTable({
        "pagingType": "full_numbers",
        "lengthMenu": [
            [10,25,50,-1],
            [10,25,50,"All"]
        ],
        responsive: true,
        language: {
            search: "_INPUT_",
            searchPlaceholder: "Search",
        }
    });
});
```

```
</script>

<!-- Menu Toggle Script -->
<script>
  $("#menu-toggle").click(function(e) {
    e.preventDefault();
    $("#wrapper").toggleClass("toggled");
  });

  $(".seeProduct").click(function() {
    var id= $(this).closest('tr').find('.id').text();
    window.location.href="machineryDetails.php?id="+id;
  });
</script>

</body>

</html>
```

6.2 SAMPLE OUTPUTS

- **Home page**

AMS

Home | About | Contact | Login

Second slide label
Some representative place holding content for the second slide.

Agricultural Management System

This is an online portal for the farmers for their farming needs. In this website the the farmers can sell their yields at a reasonable price. They can buy seeds, machineries and other needy things for their purposes. It helps the farmers to increase their productivity and profitability. This website is a farmer management web portal. The customers can also buy the products directly from the farmer.

Address: AMS Kochi
Phone: +91-9876543210
E-mail: amskochi@gmail.com

© Agricultural Management System

- **Login page**

LOGIN

Phone Number

Password

Not registered yet? Please [Register](#) here!

- Registration page

Register

First Name

Last Name

User Type

Phone Number

Email address

Password

Confirm Password

- User product browsing page

Buy Crops					
Show: 10 <input type="button" value=""/> entries					Search: <input type="text"/>
ID	Name	Image	Price	Action	
1	Tapioca		50	See Product	
2	Coffee bean		199	See Product	
3	Green Chilly		20	See Product	

- **User order status Page**

My Orders						
Show: 10 <input type="button" value=""/> entries					Search: <input type="text"/>	
ORDER ID	Name	Quantity	Price	Status	Action	
1	Ground Tiller	11	3300	Order Delivered	View Invoice	
2	Neem Cake Powder	10	500	Order Shipped	View Invoice	
3	Coffee bean	15	2985	Order Received	View Invoice	

- **Farmer product listing Page**

The screenshot shows a user interface for a 'Sell Crop' form. On the left, there is a vertical sidebar with a dark header 'AMS' and a user profile 'Midhun Mohan'. Below the profile are several menu items: 'Home', 'Sell Crop' (which is highlighted in blue), 'My Crops', 'Hire Labour', 'Buy Machinery', 'Buy Fertilizer', 'Recieved Orders', 'My Orders', and 'Logout'. A three-line menu icon is located at the top of the sidebar.

The main content area has a title 'Sell Crop'. It contains several input fields:

- 'Crop Name' with a text input field.
- 'Description' with a text input field.
- 'Crop Quantity' with a text input field and a note below it: 'Quantity must be in KG's'.
- 'Crop price' with a text input field and a note below it: 'Price must be per KG'.
- 'Crop Image' with a file upload input field labeled 'Choose File' and a message 'No file chosen'.

At the bottom of the form is a blue 'Submit' button.

- Farmer's listed products Page

AMS

Midhun Mohan

- [Home](#)
- [Sell Crop](#)
- [My Crops](#)
- [Hire Labour](#)
- [Buy Machinery](#)
- [Buy Fertilizer](#)
- [Received Orders](#)
- [My Orders](#)
- [Logout](#)

My Crops

Show 10 entries

ID	Name	Image	Quantity	Price	Action
1	Tapioca		50 KG	50 RS/KG	ADD Remove Update
2	Coffee bean		85 KG	199 RS/KG	ADD Remove Update
3	Green Chilly		20 KG	20 RS/KG	ADD Remove Update

Showing 1 to 3 of 3 entries

Previous [1](#) Next

- Farmer's received orders Page

AMS

Midhun Mohan

- [Home](#)
- [Sell Crop](#)
- [My Crops](#)
- [Hire Labour](#)
- [Buy Machinery](#)
- [Buy Fertilizer](#)
- [Received Orders](#)
- [My Orders](#)
- [Logout](#)

Received Orders

Show 10 entries

ID	Name	Product Id	Quantity	Price	Status	Action
3	Vijin V J	2	15	2905	Order Recieved Update	View Invoice

Showing 1 to 1 of 1 entries

Previous [1](#) Next