

# **PROJECT TITLE:-Uplifting the Farmer through a Connected Ecosystem**

**Batch Number:121**

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# Introduction

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- Agriculture is a critical sector that feeds billions of people globally, yet many farmers struggle with limited market access, price instability, and inefficient payment systems. On the consumer side, there is a growing demand for fresh, high-quality produce from trusted sources. This project aims to address these challenges by creating an integrated farm-to-consumer platform, enabling users to purchase directly from farmers and make payments easily using UPI-like systems. Furthermore, farmers will gain access to beneficial schemes and tools that improve their overall efficiency and profitability. This initiative will revolutionize the way agricultural products are traded and consumed, fostering transparency and trust.

# Literature Review

Year	Author/Link	Title	Outcomes
15-16 November 2018	Pranav Shriram; Sunil Mhamane	Android App to Connect Farmers to Retailers and Food Processing Industry	The platform incorporates technology-driven solutions like inventory management and seamless UPI payments, addressing agricultural and marketplace inefficiencies..
16-18 September 2022	L.A. Imalka; K.G.A. Gunawardana; K.M.S.K. Kodithuwakku; H.K.E. Arachchi; S.M.B. Harshanath	Farming Through Technology Driven Solutions For Agriculture Industry Ceylon E-Agro mobile application-find technology based solutions for agricultural problems	This unified platform integrates farmer inventory management, scheme notifications, secure payments, and user interaction for seamless, efficient operations.
16-17 December 2021	R. Ranjana; T. Subha; Pravin Kumar P; Sneka L; Varsha S; Jothishree N	Integrated App for Farmers - Agreliance	Direct payments via UPI reduce intermediary costs, maximizing profits. Future expansions include vehicle renting, fertilizer management, and land leasing.
30-31 March 2019	Niket Chauhan; M. Krishnakanth; G. Praneeth Kumar; Prema Jotwani; Utkarsh Tandon;	Crop Shop – An application to maximize profit for farmers	The platform's real-time interactions and secure transactions can be adapted to enhance safety systems, ensuring rapid responses and support.

# Proposed Method

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- The proposed system integrates a unified platform for farmers, users, and administrators. Users can browse and purchase products while completing payments through UPI-based gateways. Farmers can manage inventory, update product listings, and receive payments directly into their accounts. Administrators will onboard trusted farmers, upload helpful schemes, and manage the platform's ecosystem.

# Objectives

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- The objective is to develop an application that connects consumers directly with farmers, offering a seamless and secure payment gateway, profile management, and inventory system. The platform will allow users to view and purchase products from verified farmers. Provide farmers with tools to manage their product listings, receive payments, and stay informed about government schemes. Enable administrators to maintain trust within the system by onboarding verified farmers and providing them access to beneficial schemes.

# Proposed method:

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- **Advantages of Proposed method:**
  - A cohesive system for purchasing agricultural products directly from farmers.
  - Payments are processed securely through UPI-like gateways, reducing delays.
  - Admins can upload schemes beneficial to farmers, ensuring they are accessible.
  - Future updates will allow for vehicle and land renting, as well as fertilizer manage.



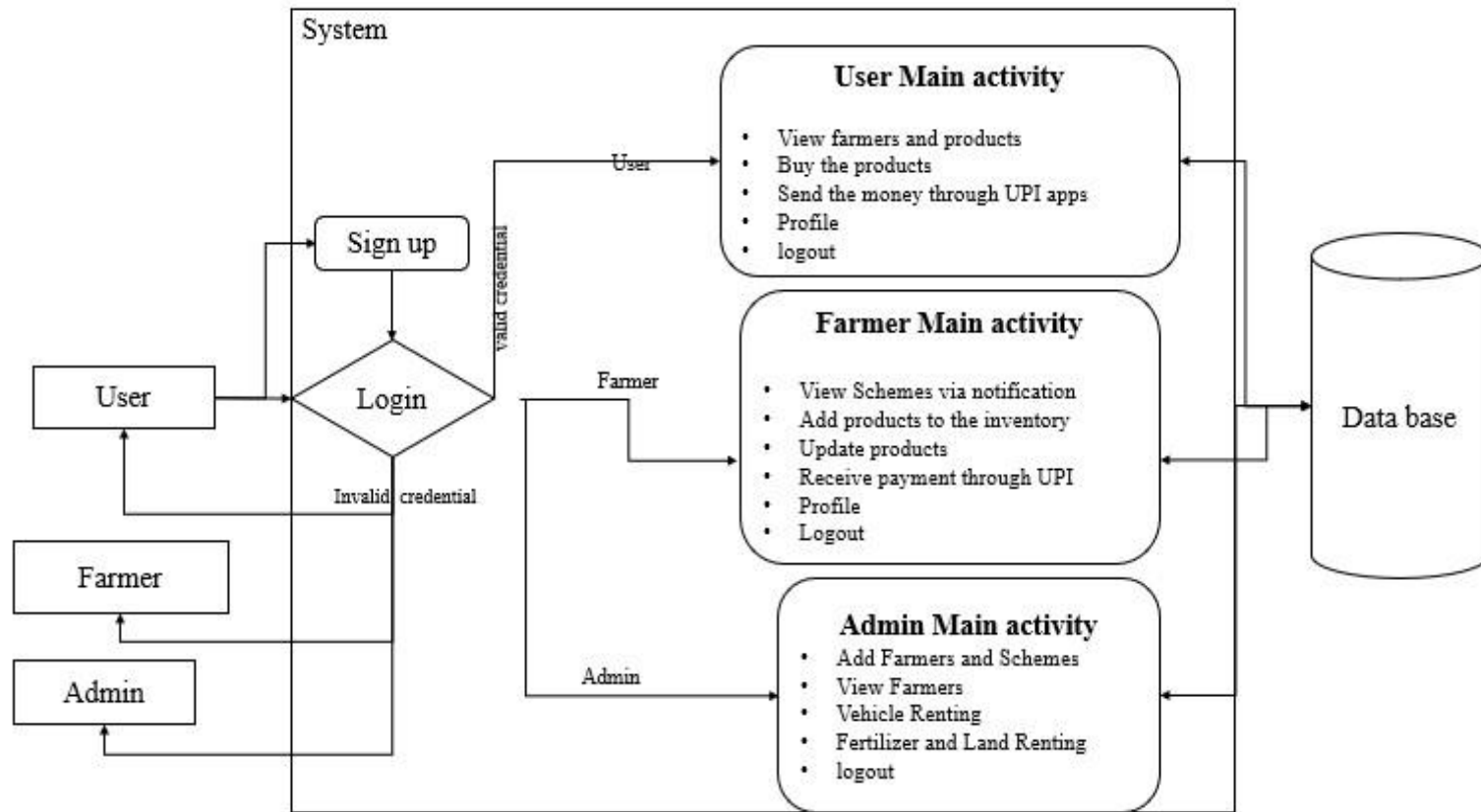
# Timeline of Project

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Review	Start Date	End date
Review 0	9/12/2024	9/18/2024
Review 1	9/24/2024	9/27/2024
Review 2	10/15/2024	10/21/2024
Review 3	11/19/2024	11/22/2024
viva voce	12/17/2024	12/20/2024



# Expected Outcomes



**Figure:** work Flow of Proposed system



# SOFTWARE REQUIREMENTS:

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- Operating System - Windows 10
- JDK - Java(kotlin)
- SDK - Android
- IDE - Android studio
- Database - my SQL

# References

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- [1] Pranav Shriram; Sunil Mhamane | Android App to Connect Farmers to Retailers and Food Processing Industry | 15-16 November 2018
- [2] L.A. Imalka; K.G.A. Gunawardana; K.M.S.K. Kodithuwakku; H.K.E. Arachchi; S.M.B. Harshanath | Farming Through Technology Driven Solutions For Agriculture Industry Ceylon E-Agro mobile application-find technology based solutions for agricultural problems | 16-18 September 2022
- [3] R. Ranjana; T. Subha; Pravin Kumar P; Sneha L; Varsha S; Jothishree N | Integrated App for Farmers - Agreliance | 16-17 December 2021
- [4] Niket Chauhan; M. Krishnakanth; G. Praneeth Kumar; Perna Jotwani; Utkarsh Tandon; | Crop Shop – An application to maximize profit for farmers | 30-31 March 2019
- [5] Aina Marie Joseph; Nurfaufa Jali; Amelia Jati Robert Jupit; Suriati Khartini Jali | eMarket for Local Farmers | 23-25 November 2021

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# Thank You



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