Abstract

MAIN PROJECT – 20MCA246

FarmConnect

Empowering Agricultural Commerce through Digital Platform

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FarmConnect

Empowering Agricultural Commerce through Digital Platform

FarmConnect: Empowering Agricultural Commerce through Digital Platform - FarmConnect, powered by Flutter and Firebase, a platform that seamlessly connects farmers and buyers. Browse, select, and purchase the freshest farm products directly from growers/producers.

Front-End: Flutter
Back-End: Firebase

Key Modules

1. Admin
2. Users
   a. Farmers
   b. Buyers

Admin:

FarmConnect provides admin with comprehensive tools for managing user accounts, moderating product listings, facilitating secure transactions, and ensuring a smooth and transparent experience for both farmers and buyers.

Farmers:

FarmConnect empowers farmers to showcase their products, receive seasonal cultivation recommendations, manage inventory, fulfil orders efficiently, and access personalized guidance for sustainable farming practices.

Buyers:

FarmConnect offers buyers a user-friendly platform for discovering a diverse array of products, placing orders, tracking deliveries in real-time, and engaging directly with farmers for inquiries and product information.

Functionalities in FarmConnect

Admin Module

1. Login
2. Google Authentication
3. User Management (Enable, Disable)
4. Dashboard
5. Product Approval
6. Facilitate Payment
7. Email Notification (Approval, Rejection, Enable, Disable, Orders)
8. Communication and Support (Chatbot)
9. Separate Section for Organic Products
10. Provide Agricultural News and Latest Notifications

Farmer Module

1. Farmer Registration and Login
2. Profile Management (Reset Password, Update Profile)
3. Dashboard
4. Add Products
5. Payments and Billing
6. Inventory Tracking
7. Order Management
8. Email Notification (Approval, Rejection, Enable, Disable, Orders)
9. Communication and Support (Chatbot)
10. Seasonal Cultivation Recommendations

Buyer Module

1. User Registration and Login
2. Profile Management (Reset Password, Update Profile)
3. Dashboard
4. Search & Filtering
5. Cart
6. Wishlist or Favourites
7. Order Placement
8. Payment
9. Invoice
10. Email Notification (Approval, Rejection, Enable, Disable, Orders)
11. Order Management (Tracking, History)
12. Communication and Support (Chatbot)
13. Feedback and Ratings (NLP implementation to sort the feedbacks in multiple languages into categories Bad, Neutral & Good)

FarmConnect stands as a transformative digital platform powered by Flutter and Firebase, uniting farmers and buyers in a seamless and efficient agricultural ecosystem. By providing farmers with tools for showcasing their products and receiving seasonal cultivation recommendations, and buyers with a user-friendly interface for product discovery and secure transactions, FarmConnect revolutionizes the way agricultural commerce is conducted. The integration of data science and machine learning offers valuable insights and personalized recommendations, ensuring sustainable farming practices and promoting growth in the agricultural sector.

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