**Abstract**

**MINI PROJECT – 20MCA245**

**FarmConnect**

***Empowering Agricultural Commerce through Digital Platform***

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***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. User Management
3. Google Authentication for User Registration
4. Block and Unlock Users
5. Reset Password
6. Dashboard
7. Product Approval
8. Facilitate Payment
9. Separate Section for Organic Products
10. Stock Management
11. Add Categories and Products
12. Blockchain integration for storing User Data

**Farmer Module**

1. Farmer Registration
2. Login
3. Profile Management
4. Dashboard
5. Product Listings / Add Products
6. Payment
7. Billing
8. Inventory Tracking
9. Order Managemen
10. Track Products with Low Stocks
11. Agricultural News

**Buyer Module:**

1. User Registration
2. Login
3. Profile Management
4. Dashboard
5. Product Search
6. Cart
7. Wishlist or Favourites
8. Order Placement
9. Payment
10. Invoice
11. Order Tracking
12. Order History
13. Feedback and Ratings

**Functionalities to be implemented in Mini Project (S3)**

**Admin**

1. Login
2. User Management
3. Google Authentication for User Registration
4. Reset Password
5. Dashboard
6. Product Approval
7. Facilitate Payment

**Farmer**

1. Farmer Registration
2. Login
3. Profile Management
4. Dashboard
5. Product Listings
6. Payment
7. Billing
8. Order Dispatch

**Buyers**

1. User Registration
2. Login
3. Profile Management
4. Dashboard
5. Product Search
6. Order Placement
7. Payment
8. Invoice

**Functionalities to be implemented in Main Project (S4)**

**Admin**

1. Block and Unlock Users
2. Inventoy / Stock Management
3. Separate Section for Organic Products
4. Add Categories and Products
5. Blockchain integration for storing User Data

**Farmer**

1. Inventory Tracking
2. Track Products with Low Stocks
3. Order Management
4. Agricultural News

**Buyers**

1. Filtering
2. Cart
3. Wishlist or Favourites
4. Order Tracking
5. Order History
6. Feedback and Ratings

**Delivery**

1. Manage Delivery

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.

**Project Guide:**

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