



ConnectFarma
Bringing farms to families

INTERNAL PROJECT REPORT

Submitted to: Department of Computer Applications

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Project Overview:

Title: ConnectFarma

Tagline: Bringing Farmers to Families.

Project Type: In-House

Technology Stack: HTML, CSS, JAVASCRIPT, PHP/Python, MySQL



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Project Proposal & Planning

1. Project Title:

ConnectFarma – A Local Farmers Market Website

2. Problem Statement:

- a) Farmers face challenges in connecting directly with urban consumers due to the lack of digital platforms. This allows middlemen to take advantage, increasing their profits and selling products to consumers at a higher price. There is a need for a transparent, user-friendly platform to bridge this gap and facilitate direct transactions.

3. Existing System and Limitations:

- a) Offline Markets: Time-bound, location-specific, and lack reach.
- b) Existing Apps: Target large-scale agriculture or wholesalers, not local farmers.

Limitations include:

- a) No direct communication channels between farmers and buyers.
- b) Lack of trust and verification.
- c) Poor UI for illiterate farmers.

Additionally, Platforms like Blinkit, Swiggy Instamart, and Zepto also offer vegetable and fruit delivery services. However, these services often encounter quality issues because their core business models are not centered around fresh produce.

Since selling vegetables does not generate high profits for these companies, they do not focus significantly on improving quality or supply chain efficiency in this area.

ConnectFarma is specifically designed for selling vegetables and fruits. Our platform directly involves local farmers in managing their inventory, ensuring freshness,



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accountability, and transparency. This farmer-centric model eliminates intermediaries, placing quality control in the hands of those who grow the product.

ConnectFarma aims to be a niche platform dedicated to vegetables and fruits—an area currently underserved by mainstream delivery apps.

Advantages of ConnectFarma:

1. Direct Farmer-to-Consumer Link

Farmers can sell their produce directly to customers without middlemen, ensuring better profits.

2. Fresh and Quality Produce

Since farmers manage their own stock, customers receive fresh fruits and vegetables with assured quality.

3. Fair Pricing

Eliminating intermediaries results in transparent and reasonable pricing for both farmers and buyers.

4. Focus on Fruits & Vegetables Only

Unlike other platforms, ConnectFarma is fully dedicated to the fruits and vegetable segment, ensuring specialized service.

5. User-Friendly Platform

Designed with simplicity in mind for both farmers and consumers, including easy registration and order management.

6. Community Empowerment

It supports local agriculture, boosts farmer income, and promotes healthy eating in urban areas.



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Key Features & Functionalities:

- a. Farmer Portal: Register, upload products, update stock/pricing.
- b. Customer Portal: Browse, filter, search, and place orders.
- c. Admin Panel: Manage users, products, and handle disputes.
- d. Order System: Cart, payment, and delivery tracking.

Modules and Sub-modules:

Module	Sub-modules
Farmer Module	Registration, Login, Product Upload, Order Tracking
Customer Module	Registration, Product Browsing, Add to Cart, Place Order
Admin Module	Approved Users, View Reports, Manage Listings
Order Module	Invoice Generation, Status Updates, Delivery Coordination



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1. User Registration (Consumers & Farmers)

Allows both consumers and farmers to sign up by providing basic details like name, email, contact number, and password. Validates input and securely stores user data in the database.

2. Login & Authentication

Enables registered users to log in securely. Authenticates credentials and manages user sessions to personalize access to features.

3. Product Categories

Displays farm product categories like fruits, vegetables, dairy, etc., with images and descriptions. Helps users easily browse what's available.

4. Product Listing & Details

Farmers can upload products with names, prices, and images. Consumers can view product details, availability, and prices before ordering.

5. Order Placement & Cart

Consumers can add items to their cart, review the list, and place an order. The cart system helps manage multiple items and total cost calculations.



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6. Admin Dashboard

Provides control to monitor users, products, and orders. Admin can approve farmer accounts, manage data, and ensure smooth operations.

7. Farmer Dashboard

Farmers can manage their profile, add or edit product listings, and track orders received. It simplifies their selling process.

8. Consumer Dashboard

Consumers can view past orders, track current ones, and manage their profile. Gives a clear overview of their buying activity.

9. Contact & Support

A contact page for consumers or farmers to raise questions or concerns. Ensures good communication and trust in the platform.



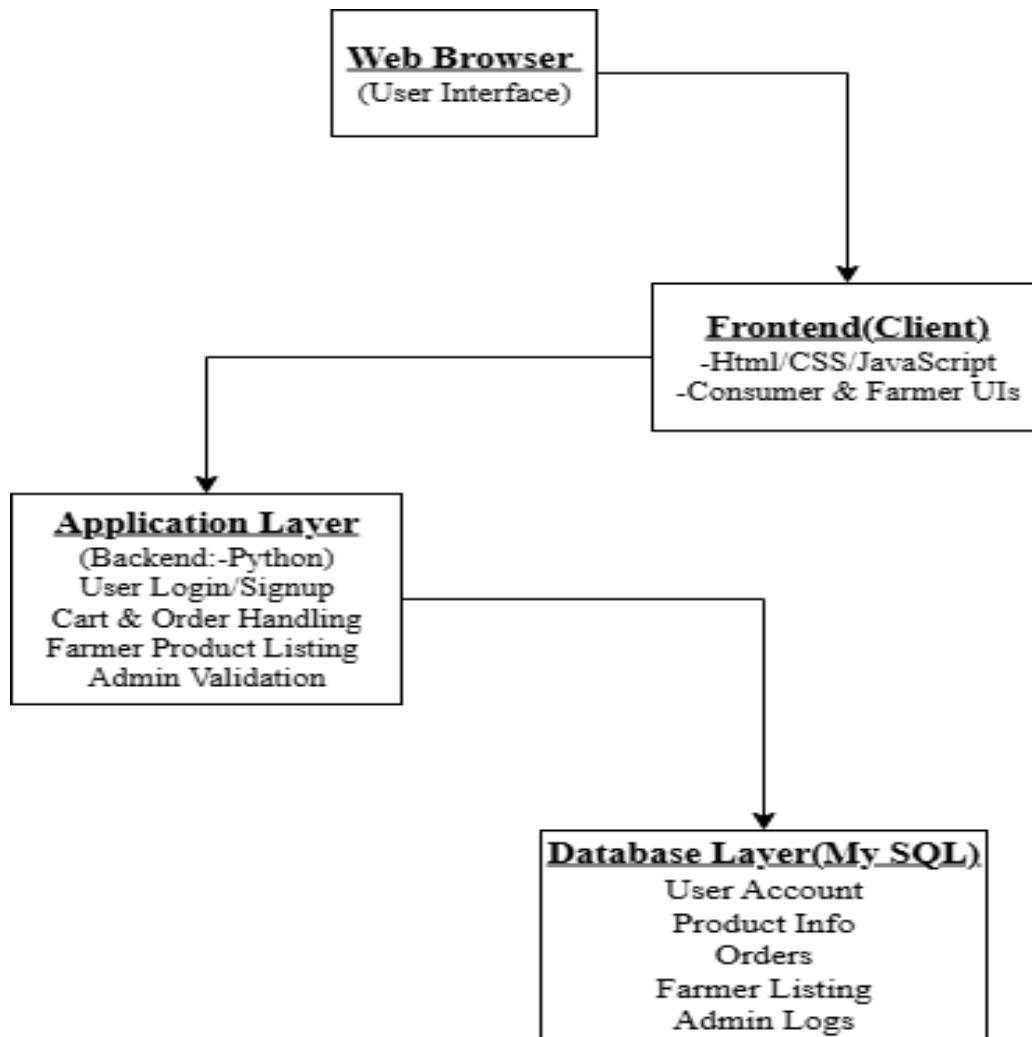
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System Design & Database Development & Data Dictionary



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System Diagram





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System Design

Design Layout ::

1. Home Page

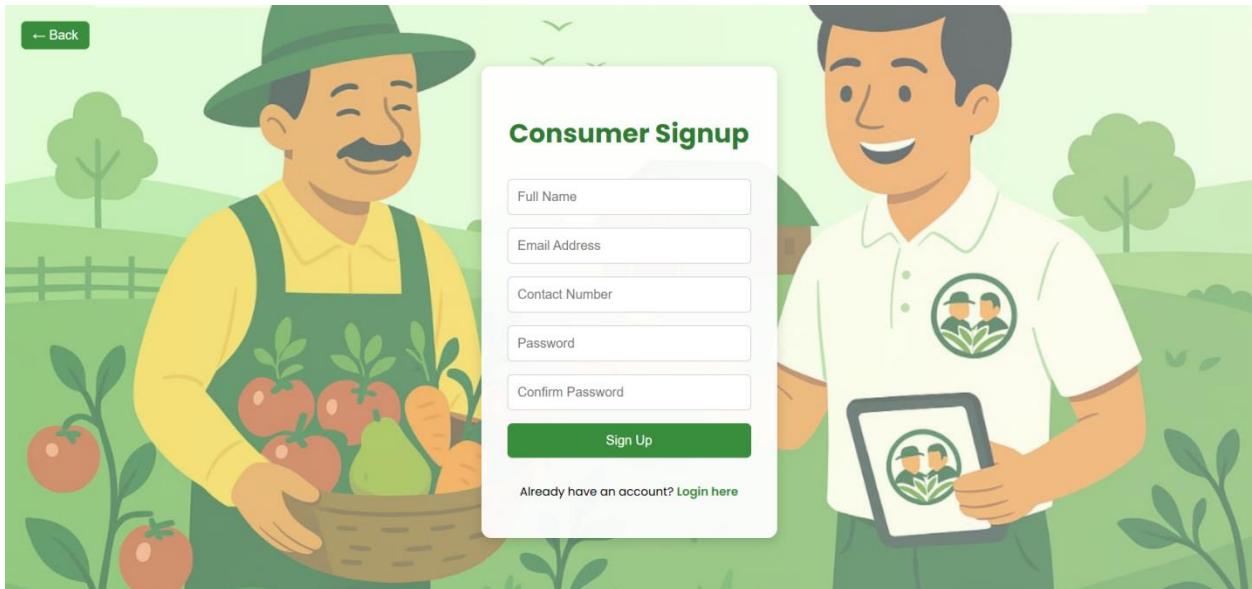


- Homepage displaying welcome message with options to ‘join as consumer or farmer’.



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2. Consumer Signup

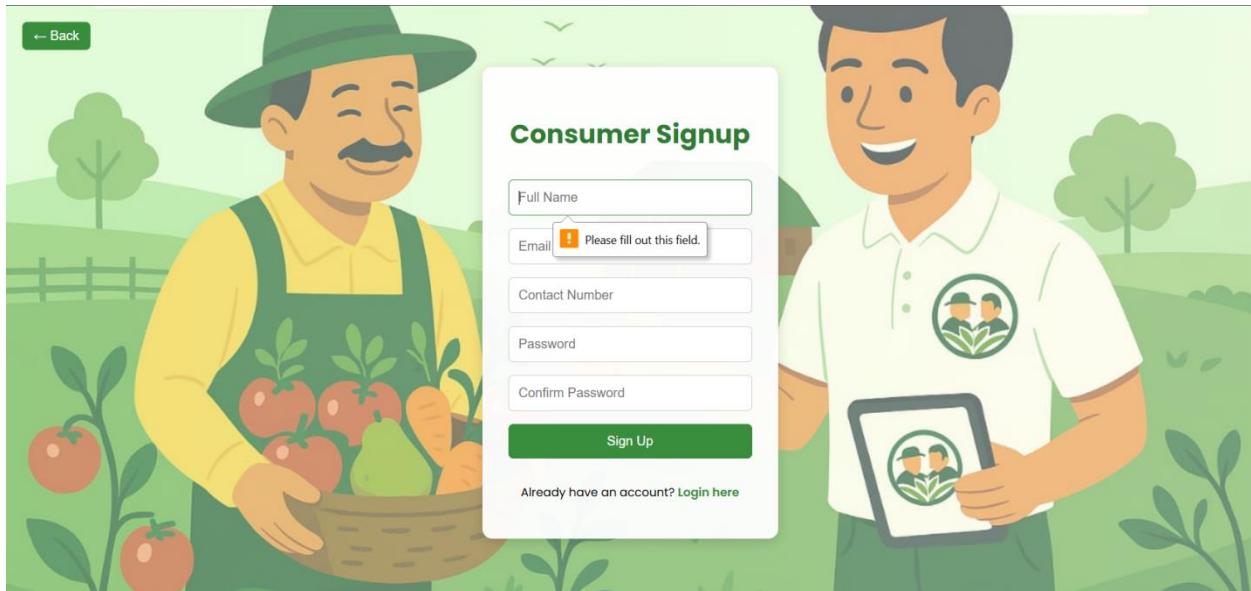


- **Consumer signup page with form fields to register new users.**



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3. Sign Up Credentials

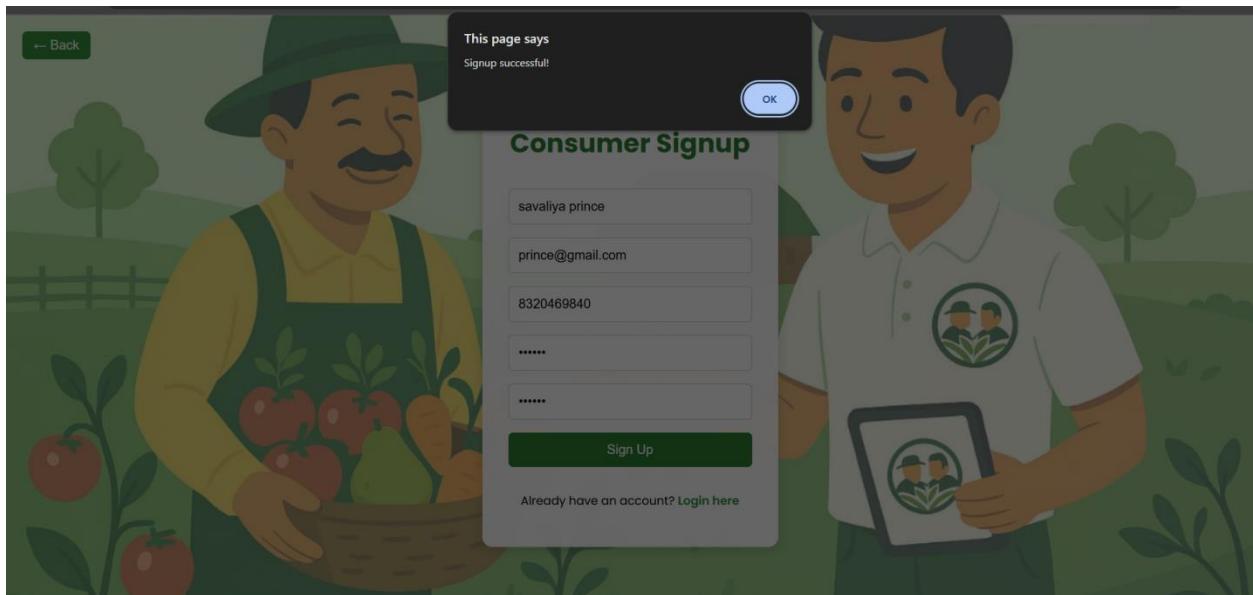


- Consumers fills in signup credentials to register.



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4. Sign Up Message

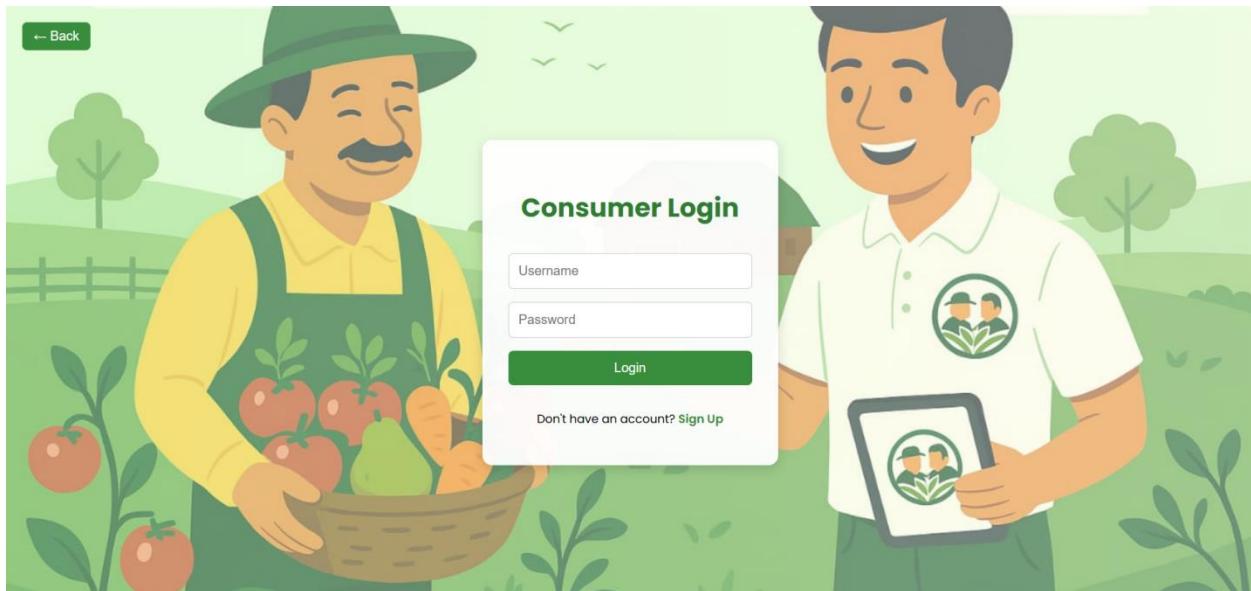


- Confirmation message appears after successful consumer signup.



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5. Consumer Login page

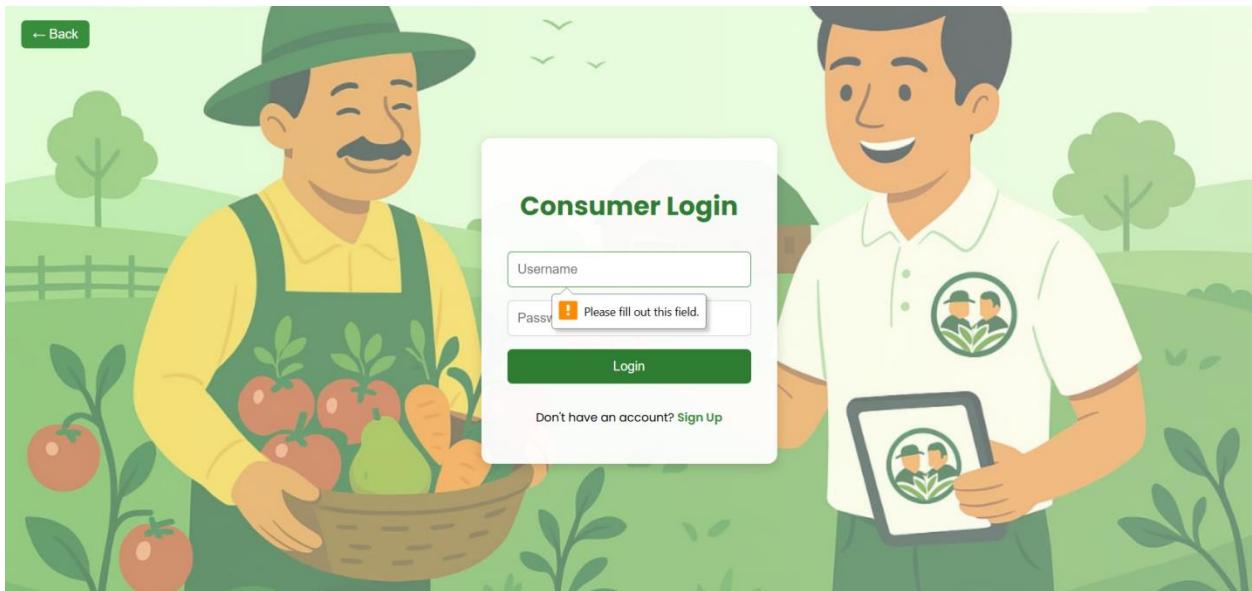


- Consumer login form to access their account.



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6. Login Credentials

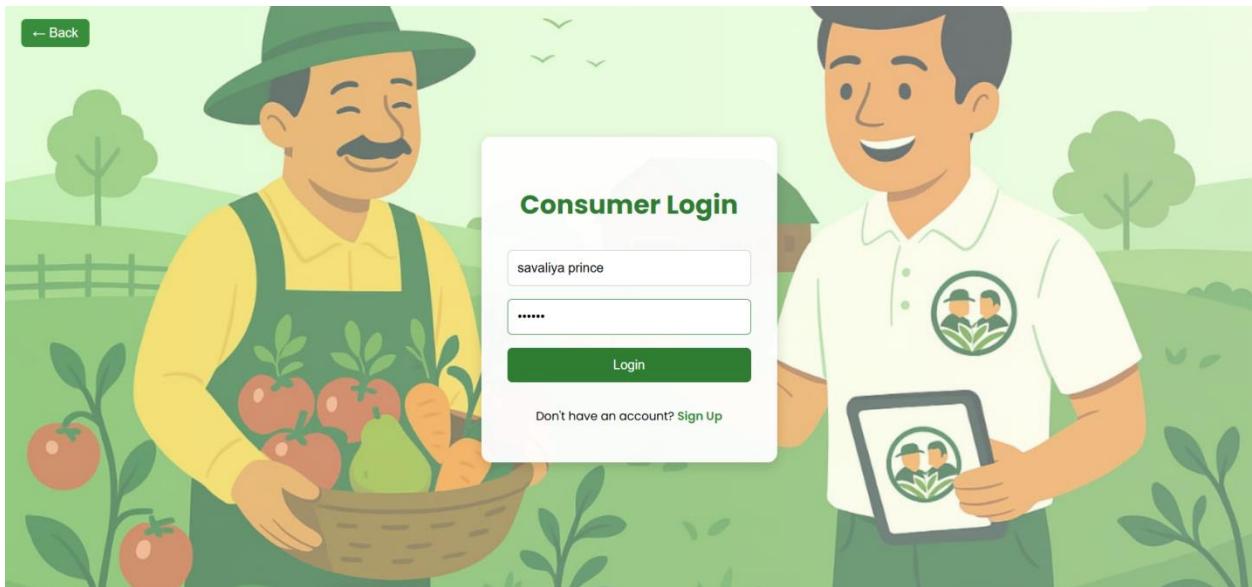


- Consumer enters their login credentials to proceed.



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7. Login Detail



- Consumer logs in using their email and password.



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8. Consumer's Home Page

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Home Orders Cart Logout

Vegetables

Fruits

Dairy

Grains



Tomatoes
₹30/kg



Bananas
₹50/dozen



Milk
₹25/litre



Wheat
₹40/kg

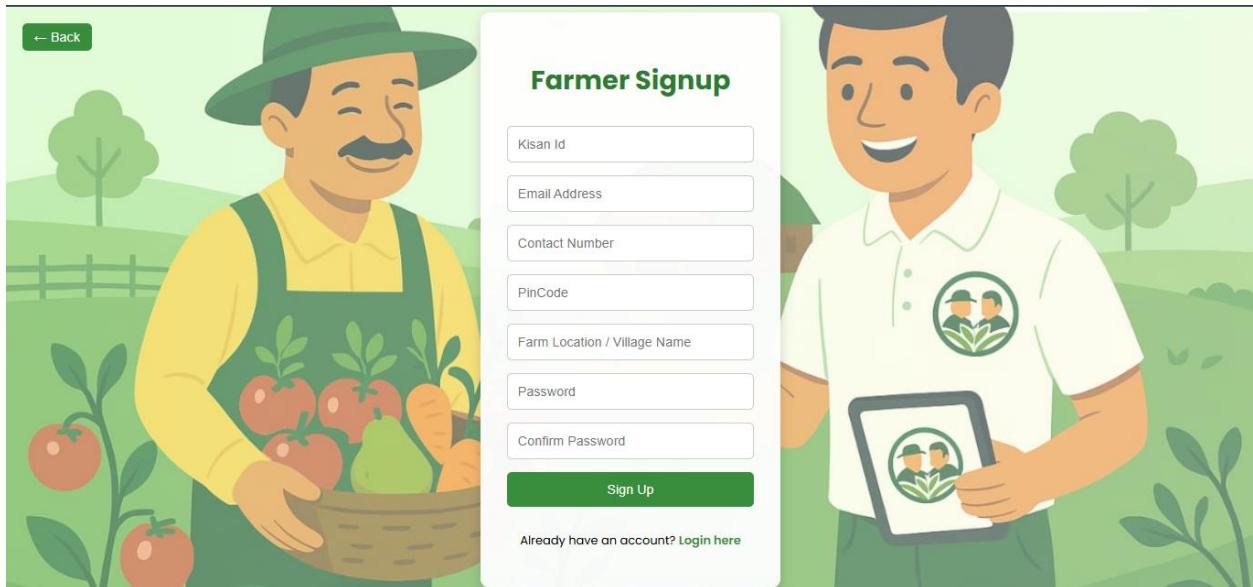
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- Consumer dashboard showing available products like vegetables, fruits, dairy and grains.



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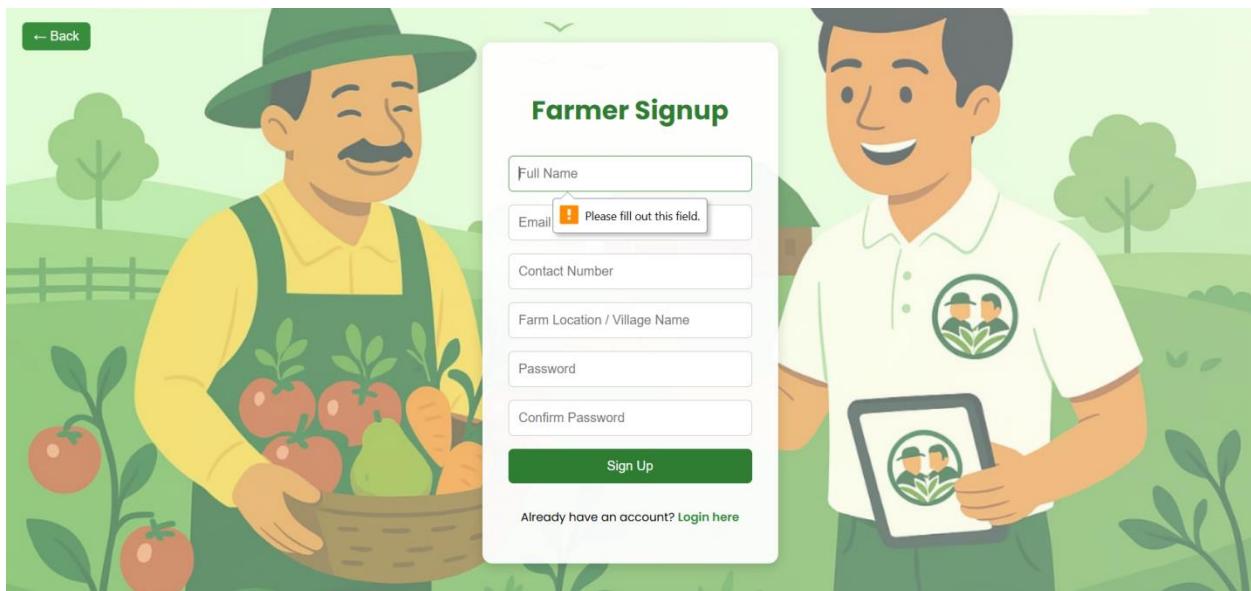
9. Farmer Sign Up Page



- Farmer signup page allowing farmers to register on the platform.



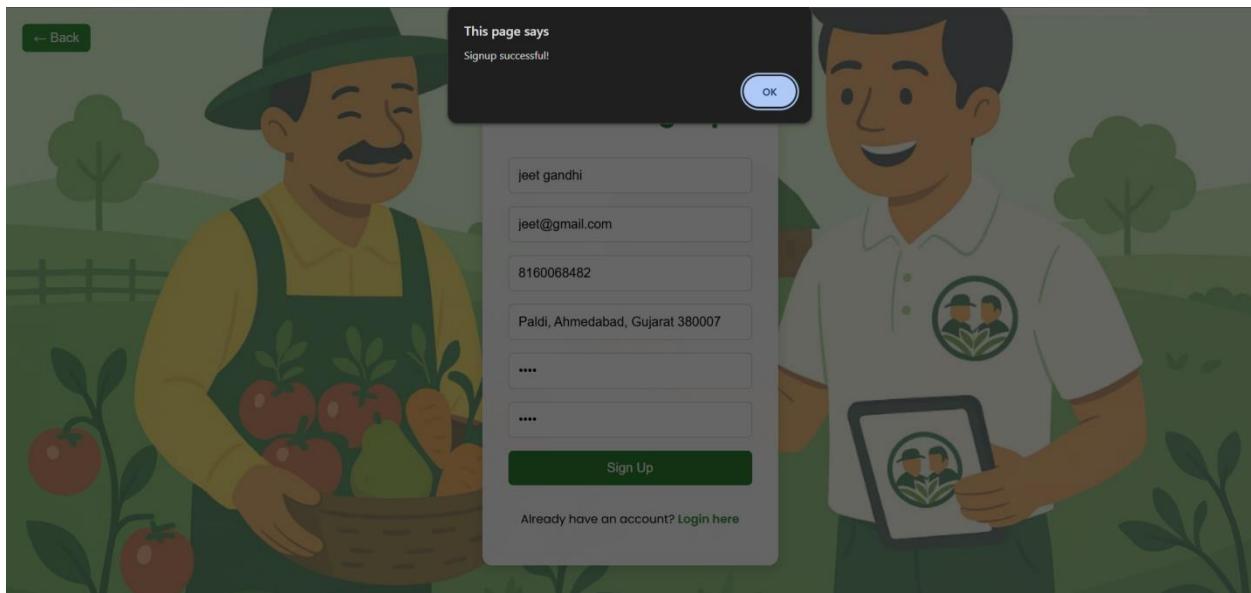
10. Farmer Sign Up Credentials



- Farmer enters personal and location details to create an account.



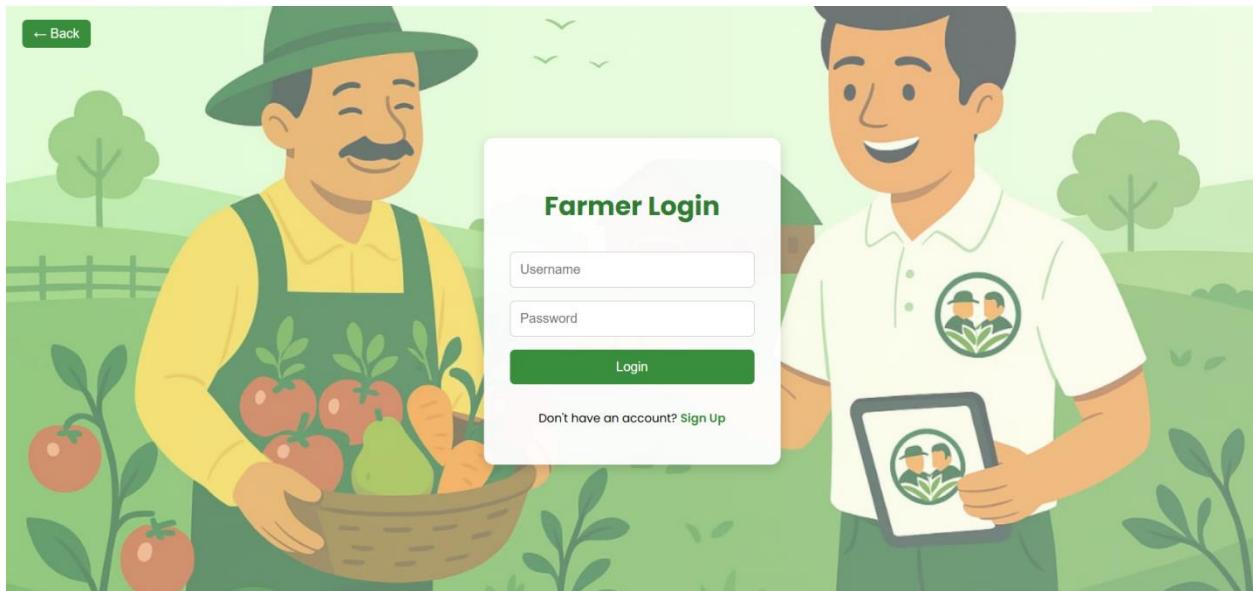
11. Farmer Sign Up Success Message



- Confirmation message after successful farmer registration.



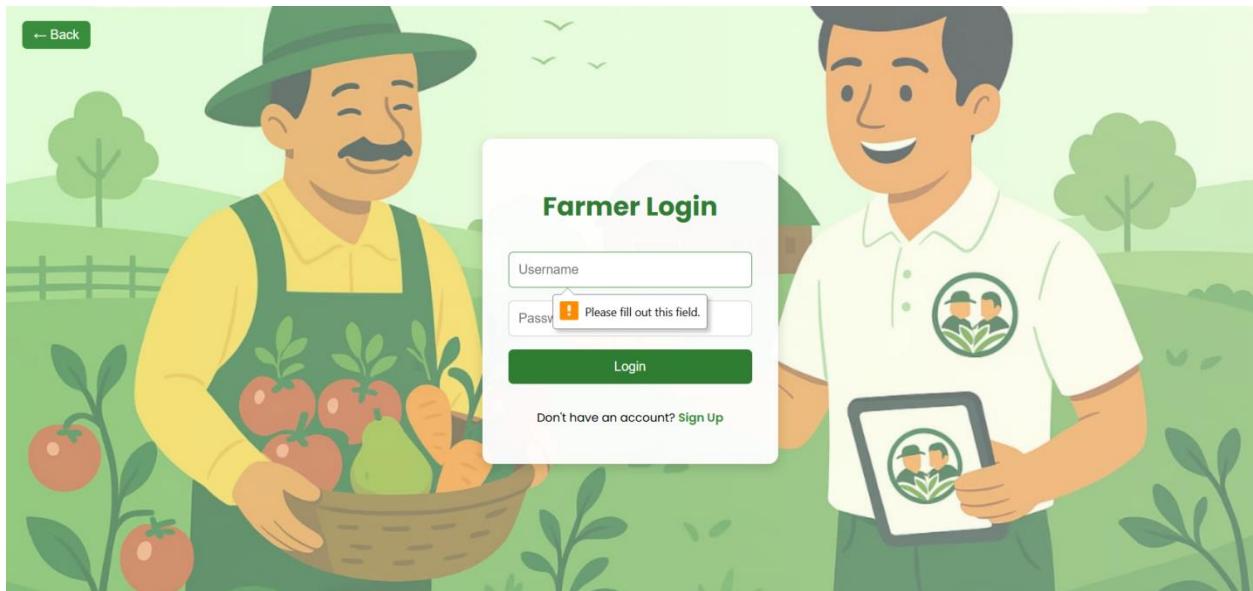
12. Farmer Log In



- Farmer login page to access their profile.



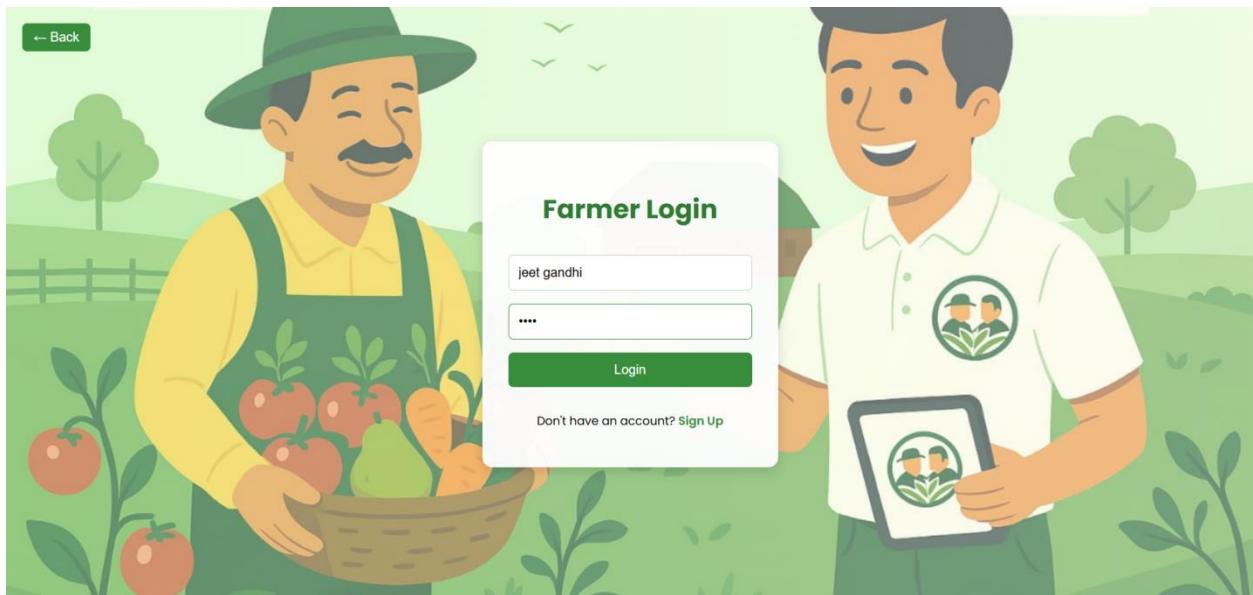
13. Log In Credentials



- Farmer inputs login credentials for authentication.



14. Login Done



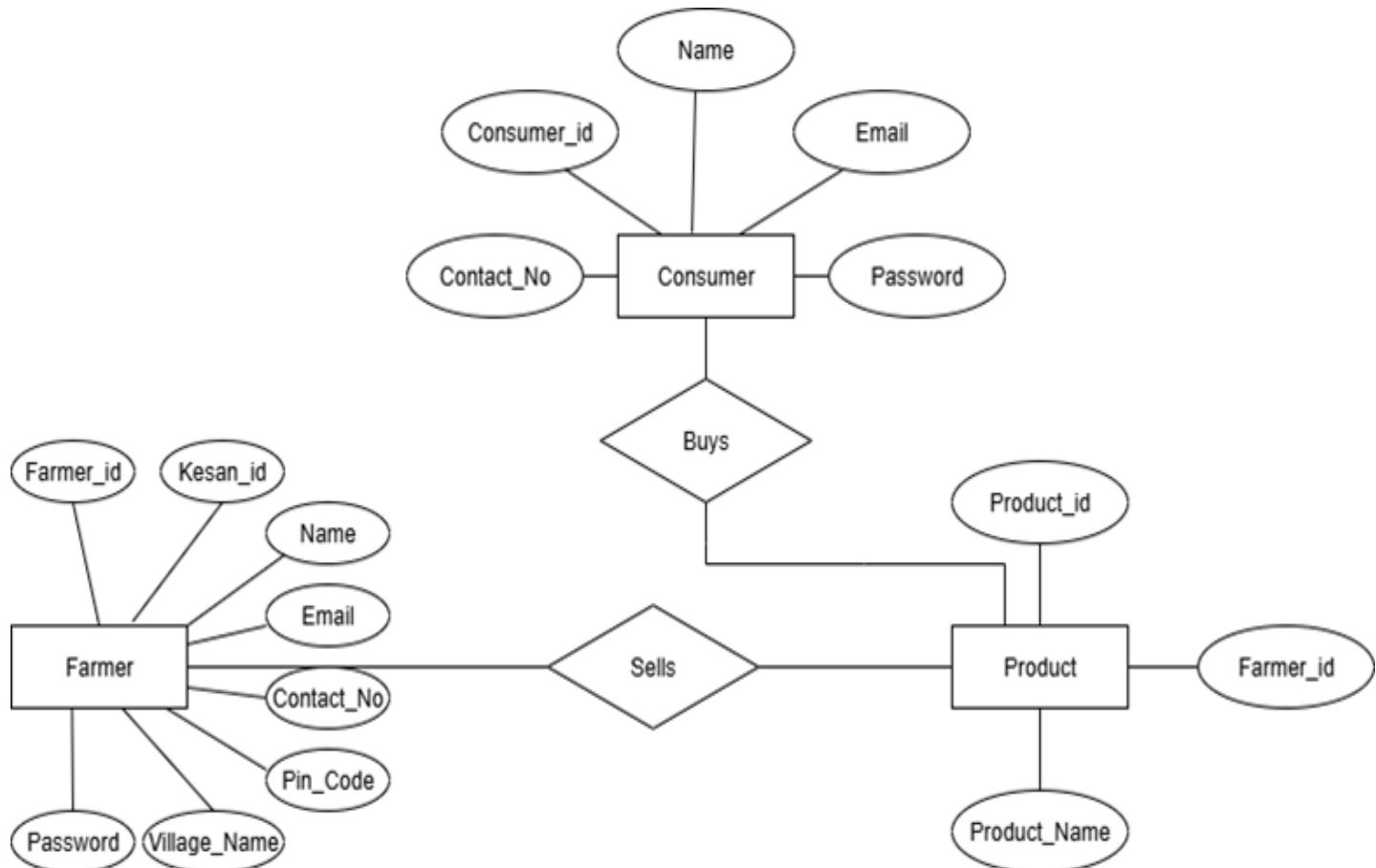
- Farmer successfully logs in and accesses the platform.



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Data Development

ER Diagram:





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Database Dictionary

1. Consumer Table :

Column Name	Data Type	Data Size	Constraints	Description
consumer_id	Int(11)	11	Primary Key	Unique ID for each consumer
name	Varchar(30)	30	Not Null	Name of consumer
email	Varchar(30)	30	Not Null	Used for login & contact
contact_no	Int(10)	10	Not Null	Phone number for contact
password	Varchar(100)	100	Not Null	For secure login



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2. Farmer Table :

Column Name	Data Type	Data Size	Constraints	Description
farmer_id	Int(10)	10	Primary Key	Unique ID for each farmer
kisan_id	Int(13)	13	Not Null	Govt ID for farmer verification
name	Varchar(50)	50	Not Null	Name of farmer
email	Varchar(50)	50	Not Null	For login or communication
contact_no	Int(10)	10	Not Null	Farmer's phone number
pincode	Int(07)	07	Not Null	Farmer's area code
village_name	Varchar(100)	100	Not Null	Farmer's village location
password	Varchar(100)	100	Not Null	For secure login



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3. Product Table :

Column Name	Data Type	Data Size	Constrains	Description
product_id	Int(10)	10	Primary Key	Unique ID for each product
farmer_id	Int(10)	10	Foreign Key	Links product to farmer
product_name	Varchar(100)	100	Not Null	Product name or title



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Flow Diagram

