BCSE203E

Web Programming Mini Project

Done by

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8. Design a web page for transparent agricultural products selling e-commerce platform. It should have product display pages, pin to bag (add cart), payment gateway options, billing, invoice generation, check out process and so on. The necessary details must be stored in the back end (MySQL).The website must have professional design, look and structure. You may visualize the web pages organization to ensure fair prices to farmers.

Project Title: Agri Link – Transparent Agricultural Products Selling E-Commerce Platform

1. Introduction

AgriLink is an online e-commerce platform designed to connect farmers directly with consumers. The platform ensures **fair pricing**, **transparency**, and a **seamless shopping experience** for users.

2. Features Implemented

--**Product Display Pages**

- Showcasing farm-fresh products with images, descriptions, and pricing.
- Implemented a **search functionality** for easy navigation.

-- **Shopping Cart (Pin to Bag)**

- Users can add products to the cart and manage quantities.
- **Cart persists** even after page refresh.

-- **User Authentication**

- **Signup & Login with JWT authentication**
- Profile management with order history

-- **Orders & Checkout**

- Users can place orders, and order details are stored in MySQL.
- Order status tracking: **Pending → Shipped → Delivered**

--**Database (MySQL)**

- **Users Table:** Stores customer and farmer details.
- **Products Table:** Contains product information, pricing, and farmer details.
- **Orders & Order Items Tables:** Manages user orders and transaction records.

-- **Professional Design (UI/UX)**

- Implemented a **modern and futuristic UI**
- **Responsive Design** for mobile & desktop
- **Enhanced navigation** (Header, Footer, Home Page)

3. Features Under Development

>**Payment Gateway Integration** (e.g., Razorpay, PayPal)
> **Invoice Generation**
> **Admin Dashboard for Farmer & Product Management**

4. Challenges Faced & Solutions

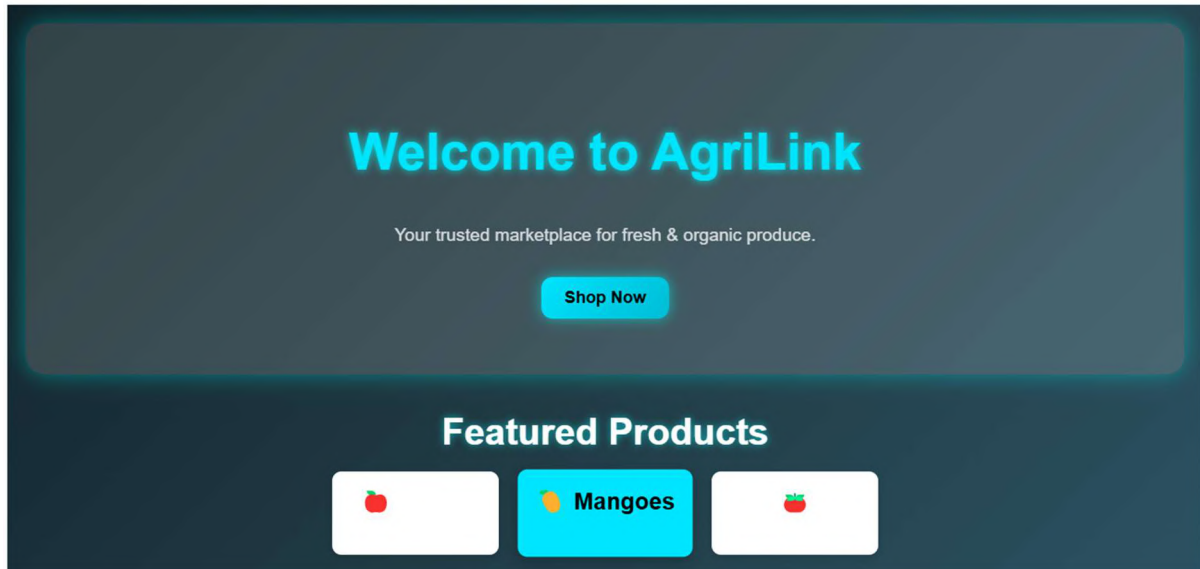| Challenge	Solution
Product images not displaying correctly	Used actual Google image links & fixed database entries
Clicking products didn't navigate to details page	Fixed Next.js routing & ensured dynamic pages work
Search API not returning results correctly	Debugged query and adjusted SQL LIKE statements
Styling inconsistencies	Implemented structured CSS

5. Next Steps

📌 **Implement secure payments**
📌 **Enhance order tracking system**
📌 **Test & deploy the platform**

6. Conclusion

The **AgriLink platform** is in the final stages of development, with core features completed. The next steps involve **final testing, payment integration, and deployment** to ensure a **fully functional e-commerce experience**.

Home Page:

Register Page:

Products Page:

Search for fresh produce...

Fresh & Organic Products

Fresh Mango

₹45.00

Add to Cart

Apple

₹60.00

Add to Cart

Organic Tomatoes

₹30.00

Add to Cart

Farm Fresh Carrots

₹35.00

Add to Cart

₹45.00   ₹60.00   ₹30.00   ₹35.00

Add to Cart   Add to Cart   Add to Cart   Add to Cart

Natural Honey

₹250.00

Add to Cart

Brown Eggs

₹80.00

Add to Cart

Fresh Cow Milk

₹50.00

Add to Cart

Organic Mangoes

₹100.00

Add to Cart

Products Details Page:

AGRILINK   Home   Products   Cart   Profile   My Orders

← Back to Products

Apple

₹60.00

Fresh red apples.

[-] 1 [+]

Add to Cart

in VIT Vellore's Moodl...   py.CheckiO - Pytho...   Watch One Piec...

localhost:3000 says

Product added to cart!

OK

AGRILINK   Home   Products   Cart   Profile   My Orders

← Back to Products

Apple

₹60.00

Fresh red apples.

[-] 3 [+]

Add to Cart

Cart Page:

Your Cart

Apple - ₹60.00 x 3   Remove

Brown Eggs - ₹80.00 x 1   Remove

Natural Honey - ₹250.00 x 2   Remove

Proceed to Checkout

My Orders Page:

My Orders

Order ID: 7

Total Price: ₹30.00

Status: Pending

Ordered On: 27/03/2025, 22:05:39

Products:

Organic Tomatoes - ₹30.00 x 1

Order ID: 8

Total Price: ₹760.00

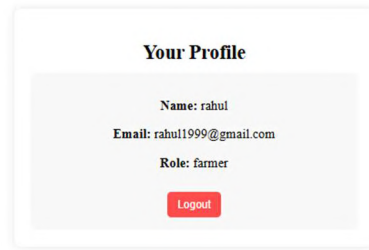**Status:** Pending

Ordered On: 27/03/2025, 22:16:32

Products:

Apple - ₹60.00 x 3

Brown Eggs - ₹80.00 x 1

Natural Honey - ₹250.00 x 2

Profile page:

Your Profile

Name: rahul

Email: rahul1999@gmail.com

Role: farmer

Logout

GIT LINK:

https://github.com/MidhulKiruthik/AgriLink