

# **ORGANIC TEA E-COMMERCE WEBSITE**

## **MERN Stack Project Documentation**

### **ABSTRACT**

The Organic Tea E-commerce Website is a full-stack web application developed using the MERN (MongoDB, Express.js, React.js, Node.js) stack. The objective of this project is to provide an online platform for users to explore, purchase, and learn about organic tea products. The system promotes healthy living by making organic tea easily accessible through a secure and user-friendly e-commerce platform.

## **1. INTRODUCTION**

### **Project Title:** Organic Tea

With increasing awareness of health and wellness, the demand for organic products has grown rapidly. Organic tea is one such product that offers multiple health benefits. This project focuses on developing an e-commerce website that allows customers to browse various organic tea products, view detailed descriptions, and place orders online. The MERN stack ensures scalability, performance, and smooth user experience.

## **2. PROBLEM STATEMENT**

Most local organic tea sellers rely on offline sales, which limits their customer reach. Customers also face difficulty in finding authentic organic tea products. Manual order handling and inventory management are inefficient. Hence, a digital e-commerce solution is required to connect sellers and customers effectively.

### **3. EXISTING SYSTEM**

- Offline or limited online sales
- Manual inventory management
- Limited customer reach
- No centralized customer data

### **LIMITATIONS**

- Time-consuming purchase process
- Lack of product transparency
- Limited business growth

### **4. PROPOSED SYSTEM**

The proposed system is an online organic tea e-commerce platform where users can register, browse products, add items to cart, and place orders. Admins can manage products, categories, and orders efficiently through a centralized dashboard.

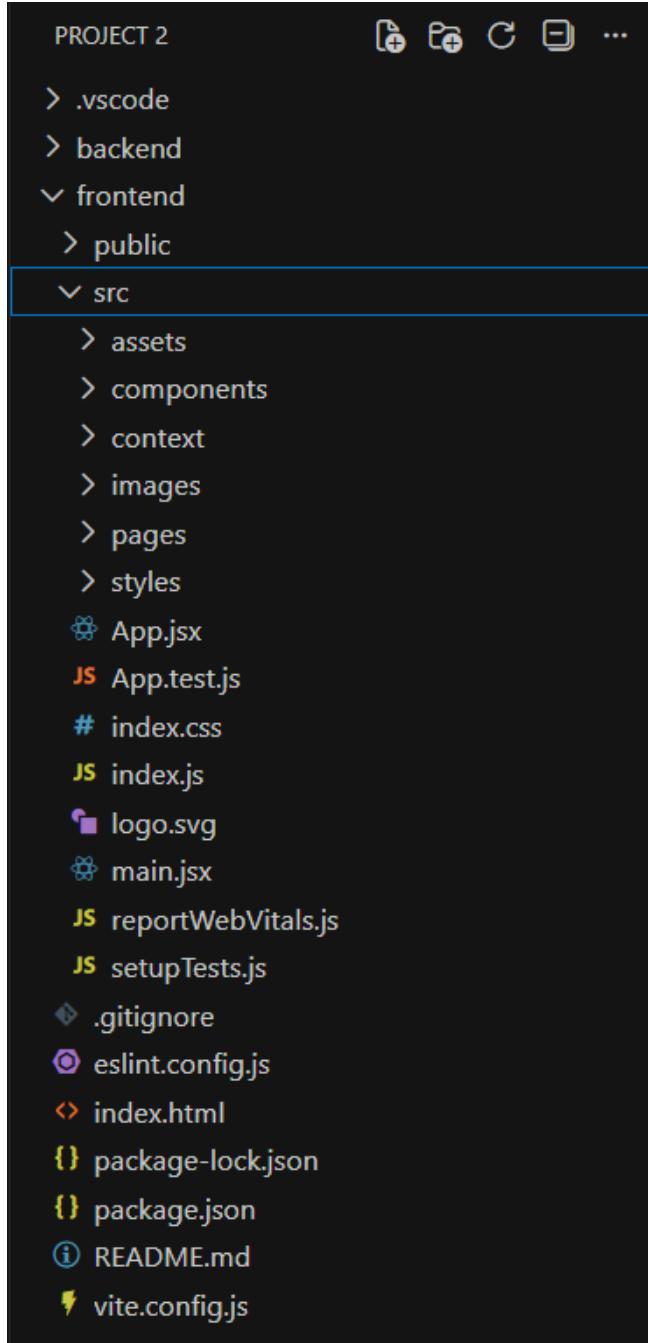
### **ADVANTAGES**

- Global customer reach
- 24/7 availability
- Secure authentication
- Efficient inventory and order management

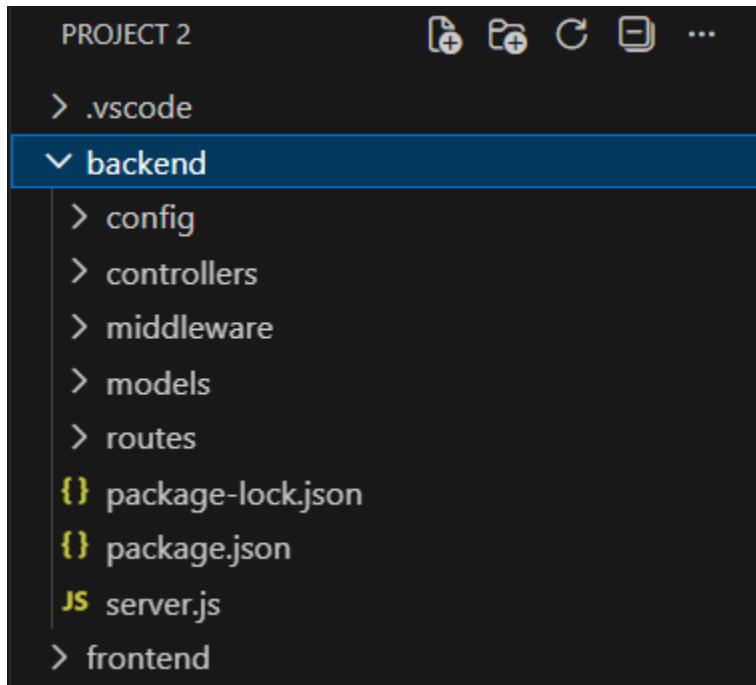
## 5. SYSTEM ARCHITECTURE

The system follows a client-server architecture:

- Frontend: React.js



- Backend: Node.js with [Express.js](#)



- Database: MongoDB

RESTful APIs enable communication between frontend and backend.

## **6. TECHNOLOGY STACK**

### **Frontend**

- React.js
- HTML5
- CSS3
- JavaScript
- Tailwind

### **Backend**

- Node.js
- Express.js

### **Database**

- MongoDB

### **Tools**

- Visual Studio Code
- GitHub
- Thunder Client
- Postman

## 7. MODULE DESCRIPTION

### User Module

- User registration and login

The image displays two screenshots of a website for "Organic Tea".

**Screenshot 1: Login Page**

The title bar shows "Organic Tea" with a logo, and navigation links for "Home", "Collection", "About", and "Contact". A search bar and a "Login" button are also present. The main content area is titled "Welcome Back" with a sub-instruction "Sign in to continue". It contains fields for "Email Address" (example@gmail.com) and "Password" (Enter your password Show), a "Sign In" button, and a link "New user? Create Account". A note at the bottom states "Encrypted & secure authentication".

**Screenshot 2: Create Account Page**

The title bar shows "Organic Tea" with a logo, and navigation links for "Home", "Collection", "About", and "Contact". A search bar and a "Login" button are also present. The main content area is titled "Create Account" with a sub-instruction "Join us and explore your journey". It contains fields for "Full Name" (John Doe), "Email Address" (example@gmail.com), "Password" (Create password Show), "User Type" (Select Type dropdown menu), and a "Create Account" button. A note at the bottom states "Already have an account? Sign In".

- Browse organic tea products

**ORGANIC SPECIALS**

## Fresh Tea Arrivals

Explore premium handpicked tea collections from organic farms — rich aroma & natural healing.

[SHOP NOW](#)

• • •

### Latest Collections

**LATEST COLLECTIONS**

Sencha Green Tea ₹123 Save 18%	Hojicha Green Tea ₹325 Save 35%	Gyokuro Green Tea ₹239 Save 60%	Tencha Green Tea ₹308 Save 23%	Green Tea ₹115 Save 77%

**BEST SELLER**

Green Tea ₹115 ₹300 Save 77%	Gyokuro Green Tea ₹339 ₹599 Save 60%	Hojicha Green Tea ₹325 ₹500 Save 35%	Tencha Green Tea ₹308 ₹400 Save 23%	Sencha Green Tea ₹123 ₹250 Save 18%

## ● View product details

**Hojicha Green Tea**

Warm, toasty, and delightfully smooth. Enjoy the nutty, caramel-like flavor of roasted Japanese Hojicha—perfect for a ca...

★ 4.8/5 • 320 reviews

**₹325** ₹500 35% OFF  
You save ₹175

Free delivery Delivered fresh in 2-4 business days

Select Pack Size Quantity  
Choose size 1

Add to Cart

**Tea Features**

**Sencha Green Tea**

Bright, refreshing, and full of antioxidants. Enjoy the delicate grassy flavor of premium Japanese Sencha with every sip...

★ 4.8/5 • 320 reviews

**₹123** ₹150 18% OFF  
You save ₹27

Free delivery Delivered fresh in 2-4 business days

Select Pack Size Quantity  
Choose size 1

Add to Cart

**Tea Features**

**Shop All**  
5 items

Categories: Healthy Tea, Green Tea, Lemon Tea, Green Tea Health  
Max price: ₹0 - ₹597  
Clear  
5 results

Featured

Image	Name	Description	Price	Add	View
	<b>Sencha Green Tea</b>	Bright, refreshing, and full of antioxidants. Enjoy the delicate...	₹123 ₹150	Add	View
	<b>Hojicha Green Tea</b>	Warm, toasty, and delightfully smooth. Enjoy the nutty, caramel...	₹325 ₹500	Add	View
	<b>Gyokuro Green Tea</b>	Gyokuro is a premium Japanese green tea known for its delicate...	₹239 ₹592	Add	View
	<b>Tencha Green Tea</b>	Tencha is a high-quality Japanese green tea primarily grown for...	₹308 ₹400	Add	View
	<b>Matcha Green Tea</b>	Matcha is a vibrant green tea powder made from finely ground ten...	₹77 ₹100	Add	View

- Add products to cart

**Hojicha Green Tea**

Warm, toasty, and delightfully smooth. Enjoy the nutty, caramel-like flavor of roasted Japanese Hojicha—perfect for a calming tea moment anytime.

₹325 ₹500 Save ₹175

Remove

**Order Summary**

Total MRP	₹500
Discount	-₹175
Delivery	+₹50
<b>Final Amount</b>	<b>₹375</b>

Secure checkout - Safe & protected

**Proceed to Checkout**

- Place orders

**Your Orders**

**Hojicha Green Tea**

Warm, toasty, and delightfully smooth. Enjoy the nutty, caramel-like flavor of roasted Japanese Hojicha—perfect for a calming tea moment anytime.

Size:	Qty:	Price:	Payment:
	1	₹325	stripe
Address	Pincode		
52.r layout, ondipudur.Coimbatore	641016		
		Ordered on	
		2025-11-24	

order placed

Cancel Order

**Sencha Green Tea**

Bright, refreshing, and full of antioxidants. Enjoy the delicate grassy flavor of premium Japanese Sencha with every sip. Perfect for a mindful, revitalizing tea break.

Size:	Qty:	Price:	Payment:
	1	₹123	cod
Address	Pincode		
52.r layout, ondipudur.Coimbatore	641016		
		Ordered on	
		2025-11-24	

delivered

delivered

# Admin Module

- Add new product

The screenshot shows the 'Add New Product' page for 'Organic Tea'. The top navigation bar includes links for Home, Collection, About, Contact, and Admin Logout. A search bar is also present. The main form is titled '+ Add New Product' and contains sections for 'Basic Information', 'Product Images', and 'Category'. In the 'Basic Information' section, there are fields for Product Name (with placeholder 'Enter product name') and Product Description (with placeholder 'Enter product description'). The 'Product Images' section includes a Main Thumbnail URL field with placeholder 'https://example.com/image.jpg' and three optional Carousel Image fields. The 'Category' section has a dropdown menu for 'Select Category' with 'Choose a category' as the placeholder. The right side of the page shows a vertical scroll bar.

- Manage inventory

The screenshot shows the 'Product Management' page for 'Organic Tea'. The top navigation bar is identical to the previous page. The main content area is titled 'Product Management' and features a sub-header 'Manage and update your product catalog'. On the left, there is a sidebar with 'Filters' sections for 'Sort By' (Popularity selected), 'Categories' (Healthy Tea, Green Tea, Lemon Tea, Green Tea Health), and 'Weight' (50g, 100g, 200g). The right side displays a grid of products under the heading 'All Products' (5 of 5 products). Each product card includes a discount badge (e.g., 18% OFF, 35% OFF, 60% OFF), a thumbnail image, the product name (Sencha Green Tea, Hojicha Green Tea, Gyokuro Green Tea), a brief description, price (₹123, ₹325, ₹238), and a weight (₹150, ₹500, ₹597). Each card also has 'Edit' and 'Delete' buttons at the bottom. The right side of the page shows a vertical scroll bar.

**Admin Dashboard**  
Monitor platform activity in one view.

Users: 3

Products: 5

Orders: 4

Add Product

Active Users: 3

Total Products: 5

Total Orders: 4

- View and process orders

**Order Management**  
Manage and track all customer orders

**order placed** Order ID: 4819630a **Ordered on:** 2025-11-24

**Hojicha Green Tea**  
Mouli Krishnan  
moulikrish2020@gmail.com  
08681034978  
52,r v layout, ondipudur,Coimbatore  
Pincode: 641016

Update Status  
Select status

**delivered** Order ID: 48196252 **Ordered on:** 2025-11-24

**Sencha Green Tea**  
Mouli  
mouli20@gmail.com  
8681034978  
52,r v layout, ondipudur,Coimbatore  
Pincode: 641016

Order completed

## **8. RESULT AND OUTPUT**

The Organic Tea E-commerce Website successfully provides a seamless shopping experience for users. Customers can easily explore organic tea varieties and place orders, while admins can efficiently manage products and orders through the backend system.

## **9. CONCLUSION AND FUTURE ENHANCEMENT**

### **CONCLUSION**

This project demonstrates the effective implementation of the MERN stack in developing a scalable and secure e-commerce application. The platform helps promote organic products and supports digital business growth.

### **FUTURE ENHANCEMENT**

- Online payment gateway integration
- Product reviews and ratings
- Order tracking system
- Mobile application development