JokaJok Website Documentation

🎨 Design System & Styling

Color Palette

The site uses an African-inspired earth tone palette:

* Primary Colors: Charred Wood (#1E1B18), Dark Clay, Swahili Dust (#A78A7F)
* Accent Colors: Burnished Copper (#B87333), Copper Wood, Soft Sand (#D7CEC7)
* Typography: Crimson Text (serif), Ubuntu (sans-serif)

Styling Architecture

* CSS Framework: Tailwind CSS with custom design tokens
* Component Library: shadcn/ui components
* Animations: Custom CSS animations for hover effects, carousels, and transitions
* Responsive Design: Mobile-first approach with breakpoints

🛠 Tech Stack

Frontend

* Framework: React 18 with TypeScript
* Build Tool: Vite
* Routing: React Router DOM v6
* State Management: React Context API + React Query
* Forms: React Hook Form with Zod validation

UI Components

* Base: shadcn/ui component library
* Icons: Lucide React
* Styling: Tailwind CSS
* Charts: Recharts (for admin dashboard)

Backend Integration

* Database: Supabase (PostgreSQL)
* Authentication: Supabase Auth
* File Storage: Supabase Storage
* Real-time: Supabase Realtime

📁 Project Structure

src/

├── components/ # Reusable UI components

│ ├── ui/ # shadcn/ui base components

│ ├── admin/ # Admin-specific components

│ └── [features]/ # Feature-specific components

├── pages/ # Route components

├── hooks/ # Custom React hooks

├── contexts/ # React Context providers

├── lib/ # Utility functions

├── types/ # TypeScript type definitions

└── integrations/ # External service integrations

🎯 Key Features

User-Facing Features

* Product Catalog: Filterable and searchable product grid
* Netflix-Style Video Carousel: Horizontal scrolling with hover animations
* Authentication: Login/Register with Supabase Auth
* Shopping Cart: Context-based cart management
* Responsive Design: Mobile-optimized layouts

Admin Features

* Product Management: CRUD operations for products
* Order Management: View and process orders
* Inventory Tracking: Stock level monitoring
* Analytics Dashboard: Sales and performance metrics

🔧 Suggested Improvements

Performance Optimizations

1. Image Optimization: Implement lazy loading and WebP format support
2. Code Splitting: Implement route-based code splitting
3. Bundle Analysis: Use Vite bundle analyzer to identify optimization opportunities
4. Caching Strategy: Implement proper caching headers and service worker

User Experience Enhancements

1. Search Functionality: Add autocomplete and search suggestions
2. Wishlist Feature: Allow users to save favorite products
3. Product Reviews: Enable customer reviews and ratings
4. Advanced Filtering: Add more filter options (size, color, material)

Technical Improvements

1. Error Boundaries: Implement React error boundaries
2. Loading States: Add skeleton loaders throughout the app
3. Offline Support: Implement PWA features
4. SEO Optimization: Add meta tags and structured data

Business Features

1. Payment Integration: Add Stripe or M-Pesa payment options
2. Inventory Management: Real-time stock updates
3. Email Notifications: Order confirmations and updates
4. Analytics: Google Analytics or similar tracking

Security Enhancements

1. Input Validation: Strengthen form validation
2. Rate Limiting: Implement API rate limiting
3. Content Security Policy: Add CSP headers
4. Authentication: Add 2FA support

📱 Mobile Responsiveness

The site is fully responsive with:

* Mobile-first design approach
* Touch-friendly navigation
* Optimized carousels for mobile swiping
* Collapsible mobile filters
* Responsive typography scaling

🎨 Animation System

Custom animations include:

* Hero Float: Subtle floating animations for hero elements
* Dust Particles: Atmospheric background animations
* Copper Shimmer: Metallic shimmer effects
* Netflix-style Hover: Scale and opacity transitions for video cards

This documentation provides a comprehensive overview of the JokaJok website's architecture, design system, and potential areas for improvement.

Now I've fixed the build errors. Here's comprehensive documentation for the JokaJok website:

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