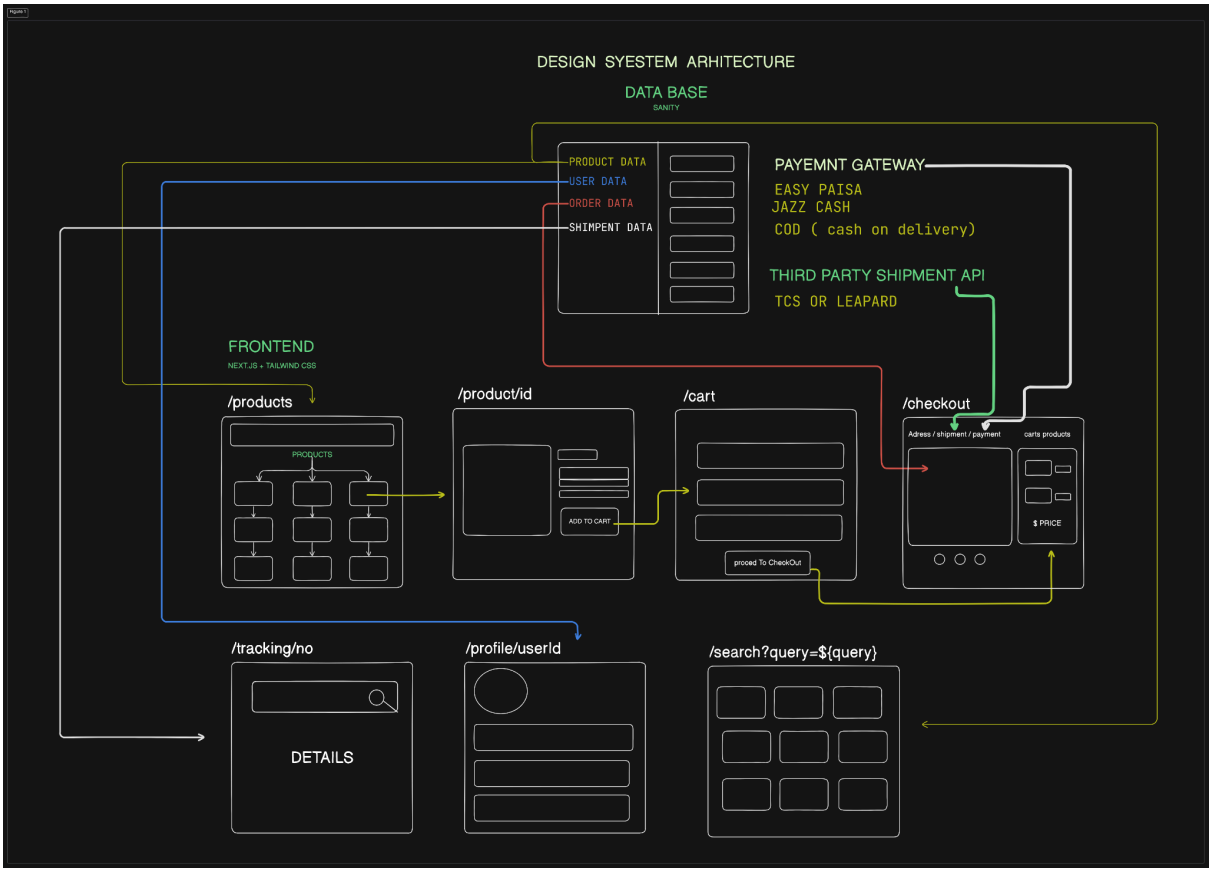
Marketplace Technical Foundation - Dukandaro

Design System Architecture

All workflow and interactions explained in this diagram [see in eraser]



The user will first register with their email, address, and other required details. After registration, the user can browse products and add desired items to the cart. During checkout, if the user has not provided an address during registration, they will be prompted to provide one. Once the address is added, the user will proceed to select a shipment option, choose the pricing, and complete the checkout process by either paying online or opting for cash on delivery. A shipment will then be created, and the order will be posted to Sanity. Additionally, a tracking number will be added to the order for future updates.

Technical Requirements

Frontend Requirement

● User-Friendly Interface:

1. 🎮 User can filter and search products.

2. 🔍 Showcase professional photos of products with zoom-in functionality.

● Responsive Design: 📱💻

1. Optimized for both mobile and desktop users.

● Essential Pages:

1. 📃 Registration page : User can register to stay informed and get recommendation from pre orders

2. 🏠 Home Page: Highlights featured products.

3. 🤴 Product Listings Page: Displays categories (e.g., men's , women's , child's , clothes , shoes, jewellery

4. 📄 Product Details Page: Shows a product images, description, sizes, price,availability, and stock

5. 🛒 Cart Page: Lists items added for purchase.

6. 💳 Checkout Page: Includes a form for delivery information and payment processing.

7. ✅ Order Confirmation Page: Displays a summary of the placed order.

Backend Requirements (Sanity CMS)

● Use Sanity CMS for managing:

○ 👸 **Products**: Names, descriptions, prices, stock, sizes, and images

. ○ 📦 **Orders**: Customer information, product details, payment status, and order history.

○ 👤 **Customer Details**: Store and retrieve customer names, emails, and addresses.

● 💰 Third party Apis:

● 💰 **Payment Gateway:** Use Stripe for secure and reliable payment processing.

● 🚚 **Shipment Tracking API:** Integrate a third-party API to update customers on order delivery status in real-time like TCS or Leapard.

3. API Requirements 📡

Here are the endpoints and details based on the marketplace workflow:
API Endpoints 🚀

End points	Methods	Purpose	Request/Response
/api/product	GET	Fetch all products	[{name, id, des…}]
/api/product/id	GET	One product	{name, id, des…}
/api/order	POST	Save order detail	{orderCreated:true}
/api/user	POST	Create user	{userCreated:true}
/shipment	POST	Create shipment	{addressFrom, addressTo, package…}

Sanity Schema

1. Product Schema

👸 export default {

name: 'product',

type: 'document',

fields: [

{name: 'name', type: 'string', title: 'Product Name' },

{ name: 'price', type: 'number', title: 'Price' },

{ name: 'stock', type: 'number', title: 'Stock Level' },

{ name: 'image', type: 'image', title: 'Product Image'},

{ name: 'description', type: 'text', title: 'Description' },], };

2. Order Schema 📦

export default {

name: 'order',

type: 'document',

fields: [

{ name: 'customer', type: 'reference', to: [{ type: 'customer' }], title: 'Customer' },

{ name: 'products', type: 'array', of: [{ type: 'reference', to: [{ type: 'product' }] }] },
{ name: 'paymentStatus', type: 'string', title: 'Payment Status' },]